



**2015  
ANNUAL MONITORING REPORT**

**TNM 97-04**

**SE ¼ SE ¼ of SECTION 11, TOWNSHIP 16 SOUTH, RANGE 35 EAST  
LEA COUNTY, NEW MEXICO  
PLAINS SRS NUMBER: TNM 97-04  
NMOCD Reference GW-0294**

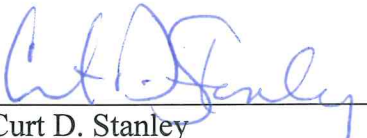
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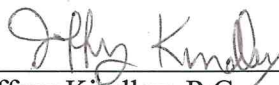
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2015 Annual Monitoring Report

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## INTRODUCTION

On behalf of Plains Marketing, L.P. (Plains), TRC Environmental Corporation (TRC) is pleased to submit this 2015 Annual Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. Beginning on May 29, 2004, project management responsibilities were assumed by TRC, previously NOVA Safety and Environmental, Inc. (NOVA). The TNM 97-04 Release Site (the site), which was formerly the responsibility of Texas New Mexico Pipeline Company (TNMPL), is now the responsibility of Plains. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2015. However, historic data tables as well as 2015 laboratory analytical reports are provided on the enclosed data disk. A Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 2015 to assess the levels and extent of dissolved phase constituents and Phase Separated Hydrocarbons (PSH). Each groundwater monitoring event consisted of measuring static water levels in monitor wells, checking for the presence of PSH on the water column, and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing a thickness of PSH greater than 0.01 foot were not sampled.

## SITE DESCRIPTION AND BACKGROUND INFORMATION

The site is located in the SE 1/4 of the SE 1/4 of Section 11, Township 16 South, Range 35 East in Lea County, New Mexico. Initial site investigation activities were performed for TNMPL by other environmental consultants. No other specifics concerning the release are currently available. The Release Notification and Corrective Action Form (C-141) is provided as Appendix A.

In October 2009, an *Enhanced Recovery System Workplan* was submitted and subsequently approved by the NMOCD. In March 2009, Plains installed eight (8) air-sparging wells (SW-1 through SW-8) and three (3) recovery wells (RW-2, RW-3, and RW-4) at the site as part of the Enhanced Recovery System. In April 2010, Plains completed the installation of the trailer mounted air-sparging system with ancillary air lines connected to the eight (8) sparging wells. Four (4) total fluid pumps were initially installed within the four (4), 4-inch diameter recovery wells (RW-1 through RW-4).

The Enhanced Recovery System was initially started during the 3<sup>rd</sup> quarter of 2010. A System Start-Up Report documenting the activities was submitted to the NMOCD in May 2011.

There are currently fifteen (15) monitor wells (MW-2 through MW-7, MW-9 through MW-16, and MW-18) on site along with the eight (8) air-sparging (AS-1 through AS-8) and four (4) recovery wells (RW-1 through RW-4). An NMOCD permitted infiltration gallery associated with the enhanced recovery system is located on the northwest corner of the site.

## **FIELD ACTIVITIES**

### **Remediation Efforts**

The enhanced recovery system utilizes compressed air to power the eight (8) air-sparging wells along with six (6) total fluid pumps placed in recovery wells RW-1 through RW-4 and monitor wells MW-3 and MW-6. The total fluid pumps operate at a pumping rate of approximately two (2) to three (3) gallons per minute (gpm) from each recovery well with a combined pumping rate of eight (8) to twelve (12) gallons per minute (gpm). Recovered oil and water is then passed through an oil-water separator with the oil transferred to a 550-gallon poly tank for staging and later transporting off site. Recovered groundwater is pumped to a large poly aeration tank to allow for volatilization of the hydrocarbons. Groundwater is transferred through a two (2) bag particulate filter system prior to being pumped through two (2) 500-pound granulated activated carbon (GAC) filtration canisters. The treated groundwater is sampled from post carbon sampling ports on a monthly basis and is discharged under Discharge Permit GW-294 to an infiltration gallery located upgradient to the northwest of the release point.

The eight (8) air-sparging wells were each installed to a depth of approximately sixty-five (65) feet below ground surface (bgs) and operate at a pressure of approximately five (5) psi per well. The air-sparging array is designed to aerate the downgradient edge of the dissolved phase hydrocarbon plume while pressing the PSH plume upgradient towards the four (4) recovery wells (RW-1 through RW-4) and two monitor wells (MW-3 and MW-6).

A measurable thickness of PSH was present in six (6) of fifteen (15) monitor wells (MW-2, MW-3, MW-4, MW-5, MW-6, and MW-9) and the four (4) recovery wells (RW-1, RW-2, RW-3, and RW-4) during at least two (2) or more quarters of the reporting period. The average thickness of PSH in monitor wells and recovery wells exhibiting PSH was 0.76 feet. The maximum thickness of PSH in monitor wells and recovery wells was 2.95 feet as recorded in recovery well RW-4 on August 18, 2015. PSH data for the gauging events can be found in Table 1. Approximately 97 gallons (approximately 2.3 barrels) of PSH was recovered from the site during the 2015 reporting period. During the 2015 reporting period, approximately 25,430 barrels of groundwater were processed through the on-site remediation system and re-injected into the infiltration gallery. A total of approximately 8,537.6 gallons (approximately 203 barrels) of PSH have been recovered since project inception.

### **Groundwater Monitoring**

Quarterly monitoring events for the reporting period were performed according to the following reduced sampling schedule, which was approved by the NMOCD in correspondence dated April 28, 2004, and amended in correspondences dated June 22, 2005, May 5, 2006, and March 27, 2012.

| NMOCD Approved Sampling Schedule |                           |       |           |       |           |      |           |
|----------------------------------|---------------------------|-------|-----------|-------|-----------|------|-----------|
| MW-1                             | Plugged & Abandoned (P&A) | MW-8  | P&A       | MW-15 | Quarterly | RW-3 | Quarterly |
| MW-2                             | Quarterly                 | MW-9  | Quarterly | MW-16 | Annual    | RW-4 | Quarterly |
| MW-3                             | Quarterly                 | MW-10 | Annual    | MW-17 | P&A       |      |           |
| MW-4                             | Quarterly                 | MW-11 | Annual    | MW-18 | Quarterly |      |           |
| MW-5                             | Quarterly                 | MW-12 | Annual    | RW-1  | Quarterly |      |           |
| MW-6                             | Quarterly                 | MW-13 | Quarterly | RW-2  | Quarterly |      |           |
| MW-7                             | Annual                    | MW-14 | Quarterly | RW-3  | Quarterly |      |           |

The site monitor wells were gauged and sampled on February 19, May 12, August 18, and November 23, 2015. During each sampling event, monitor wells were purged of a minimum of three (3) well volumes of water or until the wells failed to produce water. Purging was performed using a disposable polyethylene bailer for each well or electrical Grundfos pump and dedicated tubing. Groundwater was allowed to recharge and samples were collected using disposable Teflon samplers. Water samples were placed in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of at a licensed disposal facility.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during each quarterly sampling event of 2015, are depicted on the Inferred Groundwater Gradient Map(s), Figures 2A-2D. Groundwater elevation data for 2015 is provided as Table 1. Historic groundwater elevation data beginning at project inception is provided on the enclosed data disk.

The most recent Inferred Groundwater Gradient Map, Figure 2D, indicates a general gradient of 0.0028 feet/foot to the southeast as measured between monitor well MW-10 and MW-13. This is generally consistent with data presented on Figures 2A through 2C from earlier in the year. The corrected groundwater elevations ranged between 3,917.61 and 3,922.89 feet above mean sea level, in recovery well RW-1 on March 11, 2015 and monitor well MW-9 on August 18, 2015, respectively.

## LABORATORY RESULTS

Monitor wells MW-2, MW-3, MW-4, MW-5, and MW-9 and recovery wells RW-1 through RW-4 contained PSH throughout the reporting period and were not sampled during 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of 2015. Monitor well MW-6 exhibited PSH periodically during the 1<sup>st</sup> and 2<sup>nd</sup> quarters. Monitor well MW-6 was sampled during the 1<sup>st</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of the reporting period.

Groundwater and effluent water samples obtained during the quarterly sampling events of 2015, were delivered to Trace Analysis, Inc. in Midland, Texas for determination of benzene, toluene, ethylbenzene, and xylene (BTEX) constituent concentrations by EPA Method 8021B. Polynuclear Aromatic Hydrocarbons (PAH) analysis using EPA Method 8270, was conducted during the 4<sup>th</sup> quarter of 2015 on monitor well MW-6 and monthly on the samples obtained from the effluent water samples (Post Carbon). PAH analysis scheduled to be conducted on monitor wells MW-2, MW-3, MW-4, MW-5, and MW-9, and recovery wells RW-1, RW-2, RW-3, and RW-4 during 2015 were suspended due to the presence of PSH during the 4<sup>th</sup> quarter sampling

event. Based on previous PAH analytical data, only those wells exhibiting elevated constituent concentrations above WQCC Standards are sampled, with the exclusion of those wells containing measurable PSH thicknesses. WQCC Metals analysis was conducted on samples collected from the post carbon sampling ports (Table 6). Listings of BTEX constituent concentrations in groundwater and effluent water for 2015 are summarized in Table 2 and Table 4, respectively, and the PAH constituent concentrations in groundwater and effluent water samples are summarized in Table 3 and Table 5, respectively. Copies of the laboratory reports generated for 2015 are provided on the enclosed data disk. The quarterly groundwater sample results for BTEX constituent concentrations in groundwater are depicted on Figures 3A through 3D.

**Monitor well MW-2** is monitored on a quarterly schedule. Monitor well MW-2 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.83 feet, 1.31 feet, 1.49 feet, and 0.30 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of 2015, respectively. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event due to the presence of PSH.

**Monitor well MW-3** is monitored on a quarterly schedule. Monitor well MW-3 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.08 feet, 1.32 feet, 0.40 feet, and 1.63 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of 2015, respectively. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event due to the presence of PSH.

**Monitor well MW-4** is monitored on a quarterly schedule. Monitor well MW-4 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.14 feet, 0.28 feet, 0.24 feet, and 0.18 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of 2015, respectively. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event due to the presence of PSH.

**Monitor well MW-5** is monitored on a quarterly schedule. Monitor well MW-5 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 1.38 feet, 1.74 feet, 1.46 feet, and 1.58 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of 2015, respectively. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event due to the presence of PSH.

**Monitor well MW-6** is sampled/monitored on a quarterly schedule. Monitor well MW-6 was not sampled in the 2<sup>nd</sup> quarter of the reporting period. Monitor well MW-6 exhibited a PSH thickness of 0.04 feet during the 2<sup>nd</sup> quarter sampling event. The analytical results indicated benzene concentrations ranged from 0.286 mg/L during the 4<sup>th</sup> quarter to 0.579 mg/L during the 1<sup>st</sup> quarter of 2015. Benzene concentrations were above the NMOCD regulatory guidelines during the 1<sup>st</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of the reporting period. Toluene concentrations were below the laboratory MDL and NMOCD regulatory guidelines during the reporting period. Ethylbenzene concentrations ranged from <0.0500 mg/L during the 3<sup>rd</sup> quarter to 0.0912 mg/L during the 1<sup>st</sup> quarter of 2015. Ethylbenzene concentrations were below the NMOCD regulatory guidelines during the reporting period. Xylene concentrations ranged from 0.0857 mg/L during the 4<sup>th</sup> quarter to 0.158 mg/L during the 3<sup>rd</sup> quarter of 2015. Xylene concentrations were below the

NMOCD regulatory guidelines during the reporting period. PAH analysis during the 4<sup>th</sup> quarter sampling event indicated all concentrations were below the laboratory MDL and WQCC Drinking Water Standards during the reporting period.

**Monitor well MW-7** is sampled on an annual schedule and the analytical results indicate BTEX constituent concentrations were below the laboratory MDL and NMOCD regulatory guidelines for each BTEX constituent during the 4<sup>th</sup> quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 3<sup>rd</sup> quarter of 2001. PAH analysis was not required in monitor well MW-7 based on historical PAH analytical data.

**Monitor well MW-9** is monitored on a quarterly schedule. Monitor well MW-9 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.33 feet, 0.53 feet, 1.04 feet, and 0.21 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of 2015, respectively. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event due to the presence of PSH.

**Monitor well MW-10** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the laboratory MDL and NMOCD regulatory guidelines for each BTEX constituent during the 4<sup>th</sup> quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 1<sup>st</sup> quarter of 2000. PAH analysis was not required in monitor well MW-10 based on historical PAH analytical data.

**Monitor well MW-11** is sampled on an annual schedule and the analytical results indicate BTEX constituent concentrations were below the laboratory MDL and NMOCD regulatory guidelines for each BTEX constituent during the 4<sup>th</sup> quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 1<sup>st</sup> quarter of 2004. PAH analysis was not required in monitor well MW-11 based on historical PAH analytical data.

**Monitor well MW-12** is sampled on an annual schedule and the analytical results indicate BTEX constituent concentrations were below the laboratory MDL and NMOCD regulatory guidelines for each BTEX constituent during the 4<sup>th</sup> quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 1<sup>st</sup> quarter of 2000. PAH analysis was not required in monitor well MW-12 based on historical PAH analytical data.

**Monitor well MW-13** is sampled on a quarterly schedule and the analytical results indicate BTEX constituent concentrations were below the laboratory MDL and NMOCD regulatory guidelines for each BTEX constituent during all four (4) quarters of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 2<sup>nd</sup> quarter of 2012. PAH analysis was not required in monitor well MW-13 based on historical PAH analytical data.

**Monitor well MW-14** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.00100 mg/L in the 1<sup>st</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters to 0.00210 mg/L during the 2<sup>nd</sup> quarter of the reporting period. Benzene concentrations were below the NMOCD regulatory guidelines during the reporting period. Toluene concentrations were below the laboratory MDL and NMOCD regulatory guidelines during the reporting period. Ethylbenzene concentrations ranged from <0.00100 mg/L during the 3<sup>rd</sup> quarter to 0.00850 mg/L during the 2<sup>nd</sup> quarter of 2015. Ethylbenzene concentrations were below the NMOCD regulatory guidelines during the reporting period. Xylene concentrations ranged from 0.0126 mg/L during the 3<sup>rd</sup> quarter to 0.0445 mg/L during the 2<sup>nd</sup> quarter of 2015. Xylene concentrations were below the NMOCD regulatory guidelines during the reporting period. PAH analysis was not required in monitor well MW-14 based on historical PAH analytical data.

**Monitor well MW-15** is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.00100 mg/L during the 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters to 0.164 mg/L during the 1<sup>st</sup> quarter of the reporting period. Benzene concentrations were below the NMOCD regulatory guidelines during the 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of the reporting period. Toluene concentrations were below the laboratory MDL and NMOCD regulatory guidelines during the reporting period. Ethylbenzene concentrations ranged from <0.00100 mg/L during the 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters to 0.0104 mg/L during the 1<sup>st</sup> quarter of 2015. Ethylbenzene concentrations were below the NMOCD regulatory guidelines during all four (4) quarters of the reporting period. Xylene concentrations ranged from <0.00100 mg/L during the 1<sup>st</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters to 0.00440 mg/L during the 2<sup>nd</sup> quarter of the reporting period. Xylene concentrations were below the NMOCD regulatory guidelines all four (4) quarters of the reporting period. PAH analysis was not required in monitor well MW-15 based on historical PAH analytical data.

**Monitor well MW-16** is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the laboratory MDL and NMOCD regulatory guidelines for each BTEX constituent during the 4<sup>th</sup> quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 1<sup>st</sup> quarter of 2004. PAH analysis was not required in monitor well MW-16 based on historical PAH analytical data.

**Monitor well MW-18** is sampled on a quarterly schedule and the analytical results indicate BTEX constituent concentrations were below the laboratory MDL and NMOCD regulatory guidelines for each BTEX constituent during all four (4) quarters of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 3<sup>rd</sup> quarter of 2009. PAH analysis was not required in monitor well MW-18 based on historical PAH analytical data.

**Recovery well RW-1** is monitored on a quarterly schedule. Recovery well RW-1 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 1.10 feet, 0.58 feet, 1.25 feet, and 1.19 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of 2015, respectively. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event due to the presence of PSH.

**Recovery well RW-2** is monitored on a quarterly schedule. Recovery well RW-2 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.04 feet, 0.17 feet, 0.16 feet, and 1.15 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of 2015, respectively. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event due to the presence of PSH.

**Recovery well RW-3** is monitored on a quarterly schedule. Recovery well RW-3 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.51 feet, 0.71 feet, 1.36 feet, and 0.02 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of 2015, respectively. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event due to the presence of PSH.

**Recovery well RW-4** is monitored on a quarterly schedule. Recovery well RW-4 was not sampled during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of the reporting period, due to the presence of PSH. PSH thicknesses of 0.55 feet, 1.35 feet, 2.95 feet, and 2.18 feet were reported during the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> quarters of 2015, respectively. PAH analysis was not conducted during the 4<sup>th</sup> quarter sampling event due to the presence of PSH.

Post carbon canister sampling ports are sampled on a monthly schedule and system maintenance issues, which may effect this schedule. Analytical results indicate BTEX constituent concentrations and PAH constituent concentrations were below the laboratory MDL and NMOCD regulatory guidelines for each BTEX and PAH constituent during the reporting period, with the exception of the analytical results for effluent water collected on September 23, 2015. The analytical results for the effluent water sample collected on September 23, 2015, indicated BTEX constituent concentrations were 0.0357 mg/L for benzene, 0.00350 mg/L for toluene, 0.00210 mg/L for ethylbenzene, and 0.0117 mg/L for xylene. The analytical results for the “Pre Carbon” effluent sample collected on September 23, 2015 indicated all BTEX constituent concentrations were below the laboratory MDL and NMOCD regulatory guidelines. Based on the analytical results of the September 23, 2015 “Pre and Post Carbon” effluent water, it is likely a field (mis-labeled VOA vials) or laboratory error occurred. On September 29, 2015, a “Post Carbon” effluent water sample was collected to confirm the field or laboratory error. The September 29, 2015, analytical results for Post Carbon effluent water indicated BTEX concentrations were below the laboratory MDL and NMOCD regulatory guidelines. The September 29, 2015, PAH analysis indicated all PAH constituent concentrations were below the laboratory MDL and NMOCD regulatory guidelines. During the 2015 reporting period “Post Carbon” effluent water samples were not collected during the month of February, April, and May due to system maintenance issues, which required the system to be shut down for repairs. During January and December 2015, the system was shut down due to adverse weather and a “Post Carbon” effluent water sample was not collected.

On October 28, 2015, the effluent water was sampled for WQCC metals. WQCC metal analysis indicated all total metal concentrations were below WQCC Drinking Water Standards. Concentrations of Boron (0.108 mg/L), Copper (0.00500 mg/L), Iron (0.203 mg/L), Manganese (0.0560 mg/L), Barium (0.239 mg/L), and Zinc (0.0140 mg/L) were detected at concentrations above the laboratory MDL and below the WQCC Drinking Water Standards.

Laboratory analytical results were compared to NMOCD regulatory guidelines based on the New Mexico groundwater guidelines found in section 20.6.2.3103 of the New Mexico Administrative Code.

## **SUMMARY**

This report presents the results of monitoring activities for the 2015 annual monitoring period. There are currently fifteen (15) monitor wells (MW -2 through MW-7, and MW-9 through MW-16, and MW-18) and four (4) recovery wells (RW-1, RW-2, RW-3, and RW-4) on site. Groundwater elevation contours generated from water level measurements indicate a general gradient of 0.0028 feet/foot to the southeast.

A measurable thickness of PSH was present in six (6) of fifteen (15) monitor wells (MW-2, MW-3, MW-4, MW-5, MW-6, and MW-9) and the four (4) recovery wells (RW-1, RW-2, RW-3, and RW-4) during at least two (2) or more quarters of the reporting period. The average thickness of PSH in monitor wells and recovery wells exhibiting PSH was 0.76 feet. The maximum thickness of PSH in monitor wells and recovery wells was 2.95 feet as recorded in recovery well RW-4 on August 18, 2015. PSH data for the gauging events can be found in Table 1. Approximately 97 gallons (approximately 2.3 barrels) of PSH was recovered from the site during the 2015 reporting period. During the 2015 reporting period, approximately 25,430 barrels of groundwater were processed through the on-site remediation system and re-injected into the infiltration gallery. A total of approximately 8,537.6 gallons (approximately 203 barrels) of PSH have been recovered since project inception.

Review of the 4<sup>th</sup> quarter laboratory analytical results of groundwater samples indicates BTEX constituent concentrations are below the NMOCD regulatory guidelines in nine (9) of the nineteen (19) on site monitor and recovery wells. The remaining eleven (10) monitor and recovery wells, contained measurable thicknesses of PSH and were not sampled during the four (4) quarterly sampling events or exhibited analytical results above the NMOCD regulatory guidelines during the four (4) quarterly sampling events.

The analytical results indicate the on-site TNM 97-04 Sparging System has been effective in confining PSH and the dissolved phase hydrocarbon plume to the core of the TNM 97-04 Release Site. Down-gradient monitor wells (MW-7, MW-13, and MW-18) have not exhibited BTEX concentrations exceeding the NMOCD regulatory guidelines since the 2<sup>nd</sup> quarter of 2012.

The analytical results for the post carbon effluent water from the enhanced recovery system were below NMOCD and WQCC Standards for all BTEX and PAH constituents during the reporting period. WQCC metal analysis conducted on the post carbon effluent water was below WQCC Drinking Water Standards.

## **ANTICIPATED ACTIONS**

The Enhanced Recovery System will continue to operate during the 2016 reporting period. The system may be shut down for short durations of time to conduct routine maintenance and repairs.

During adverse weather conditions, the system may be shut down as a safety precaution to protect the integrity of the system.

PSH recovery, quarterly groundwater monitoring and sampling will continue in 2016. An Annual Monitoring Report will be submitted to the NMOCD before April 1, 2017.

As the PSH plume thicknesses decreases, monitor and recovery wells which have historically exhibited elevated constituents near or above the WQCC Standards will be sampled for PAH, as necessary.

## **LIMITATIONS**

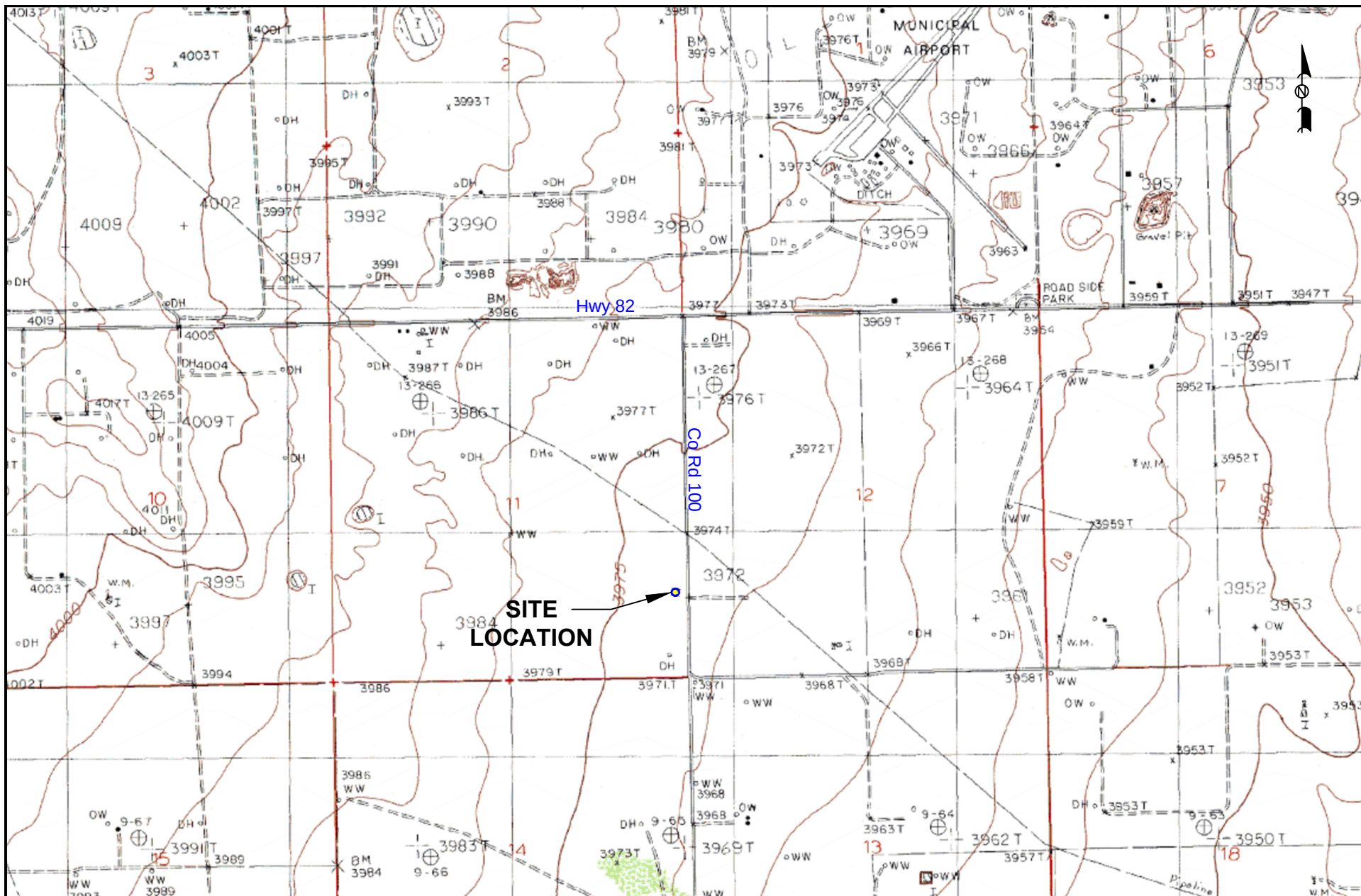
TRC has prepared this Annual Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or Plains.

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2057 Commerce Street  
Midland, TX 79703  
cdstanley@trcsolutions.com



LEGEND:

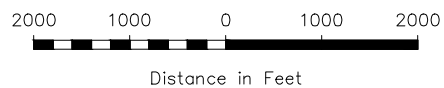


Figure 1  
Site Location Map  
Plains Marketing, L.P.  
TNM 97-04  
NMOCD Reference # GW-294-0  
Lea County, NM

Scale: 1" = 2000'

CAD By: TA

Checked By: CS

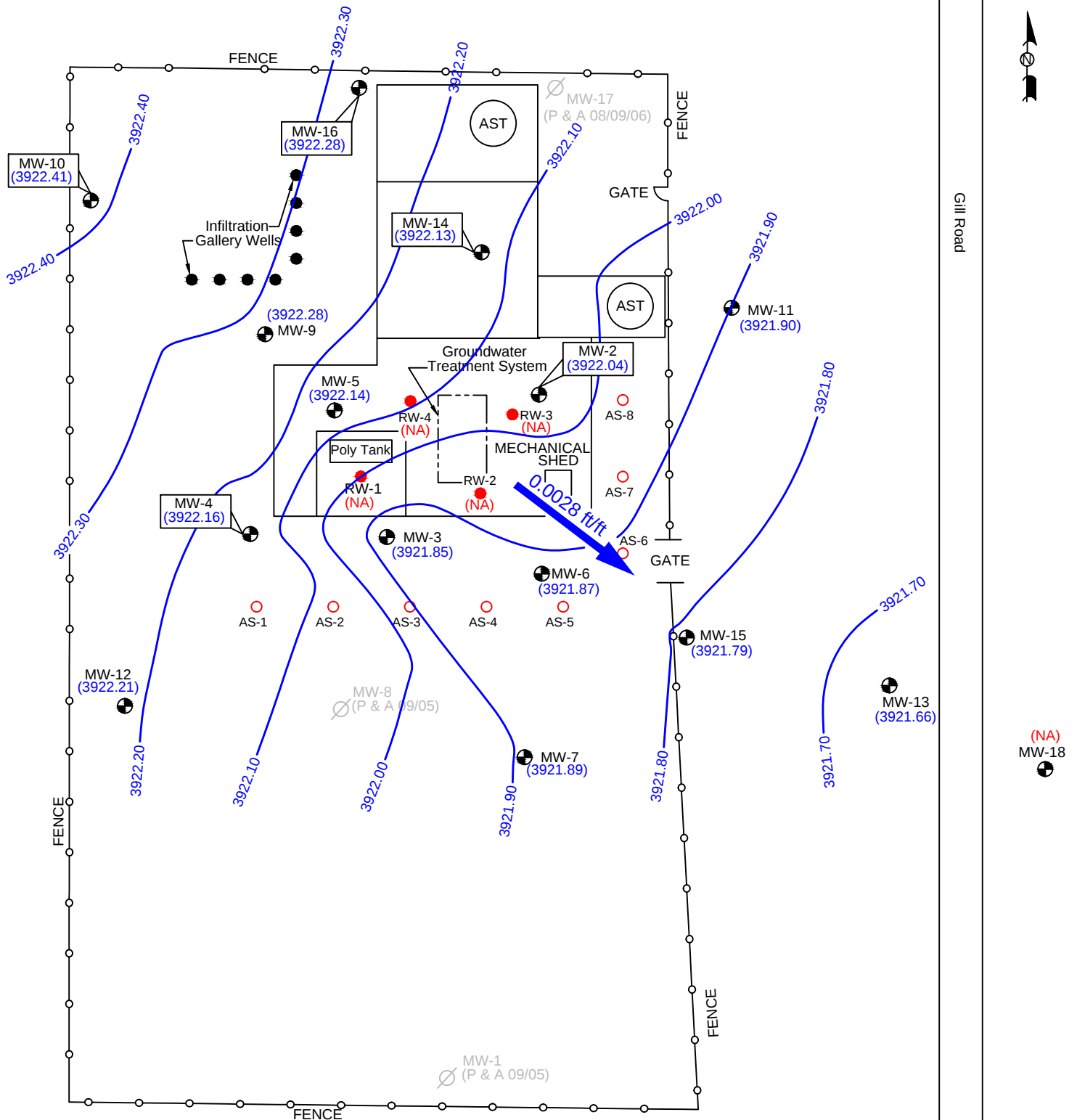
Draft: March 10, 2015

Lat. N 32.932527°, Long. W 103.420083°

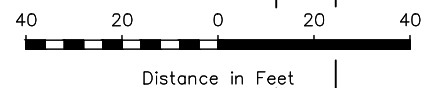
SE1/4 SE1/4 Sec 11 T16S R35E



2057 Commerce Drive  
Midland, Texas 79703  
432.520.7720



**NOTE:**  
 MW-1 and MW-8 Were Plugged and Abandoned  
 September 2005 Per NMOCD Approval  
 RW-1, RW-2, RW-3, RW-4, & MW-18 were not used in the Construction of this Map  
 Gradient Measured Between MW-10 and MW-13.  
 Contour Interval = 0.10'



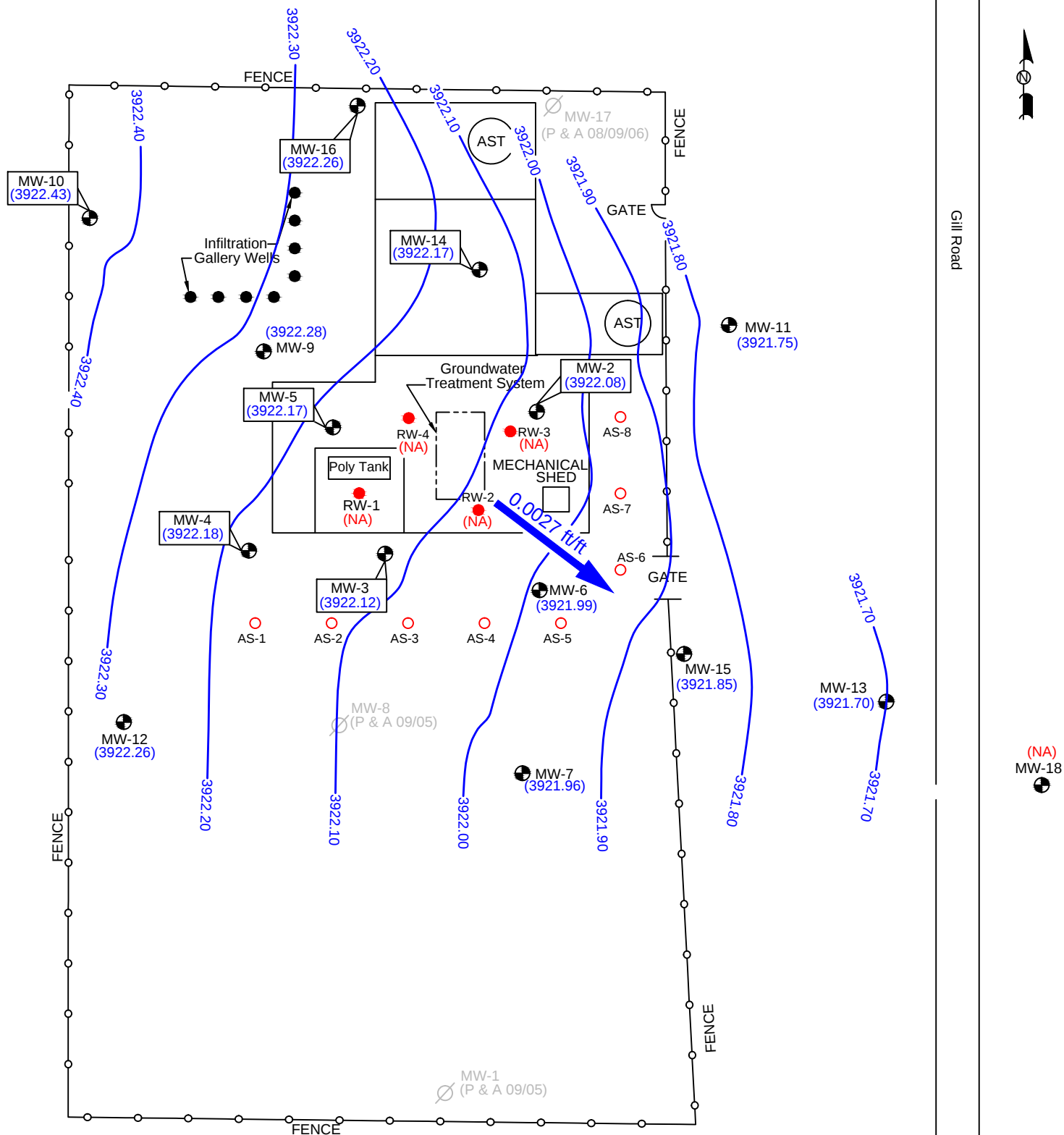
#### LEGEND:

- Monitoring Well Location
- Recovery Well Location
- Air Sparging Well Location
- Infiltration Gallery Well Location
- Groundwater Elevation Contour
- (NA) Not Available

**Figure 2A**  
**Inferred Groundwater**  
**Gradient Map**  
 (2/19/2015)  
 Plains Marketing, L.P.  
 TNM 97-04  
 NMOCD Reference # GW-0294  
 Lea County, NM

|                                        |
|----------------------------------------|
| Scale: 1" = 40'                        |
| CAD By: TA                             |
| Checked By: CS                         |
| Draft: March 10, 2015                  |
| Lat. N 32.932527°, Long. W 103.420083° |
| SE1/4 SE1/4 Sec 11 T16S R35E           |





**NOTE:**  
 MW-1 and MW-8 Were Plugged and Abandoned  
 September 2005 Per NMOCD Approval  
 RW-1, RW-2, RW-3, RW-4, & MW-18 were not used in the Construction of this Map  
 Gradient Measured Between MW-10 and MW-13.  
 Contour Interval = 0.10'



Distance in Feet

**LEGEND:**

- Monitoring Well Location
- Recovery Well Location
- Air Sparging Well Location
- Infiltration Gallery Well Location
- Groundwater Elevation Contour
- (NA) Not Available

**Figure 2B**  
**Inferred Groundwater**  
**Gradient Map**  
 (5/12/2015)  
 Plains Marketing, L.P.  
 TNM 97-04  
 NMOCD Reference # GW-0294  
 Lea County, NM

Scale: 1" = 40'

CAD By: TA

Checked By: CS

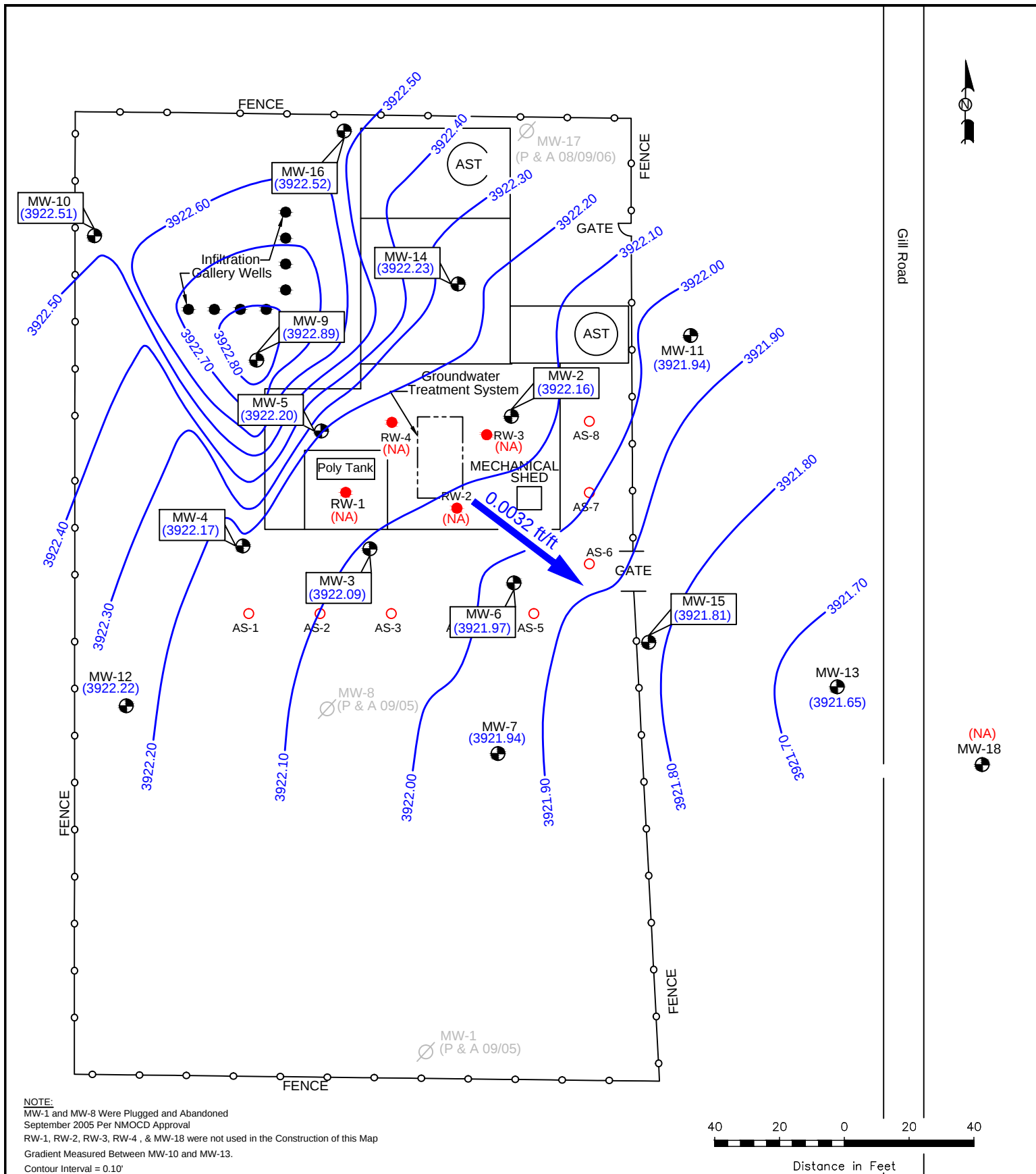
Draft: May 22, 2015

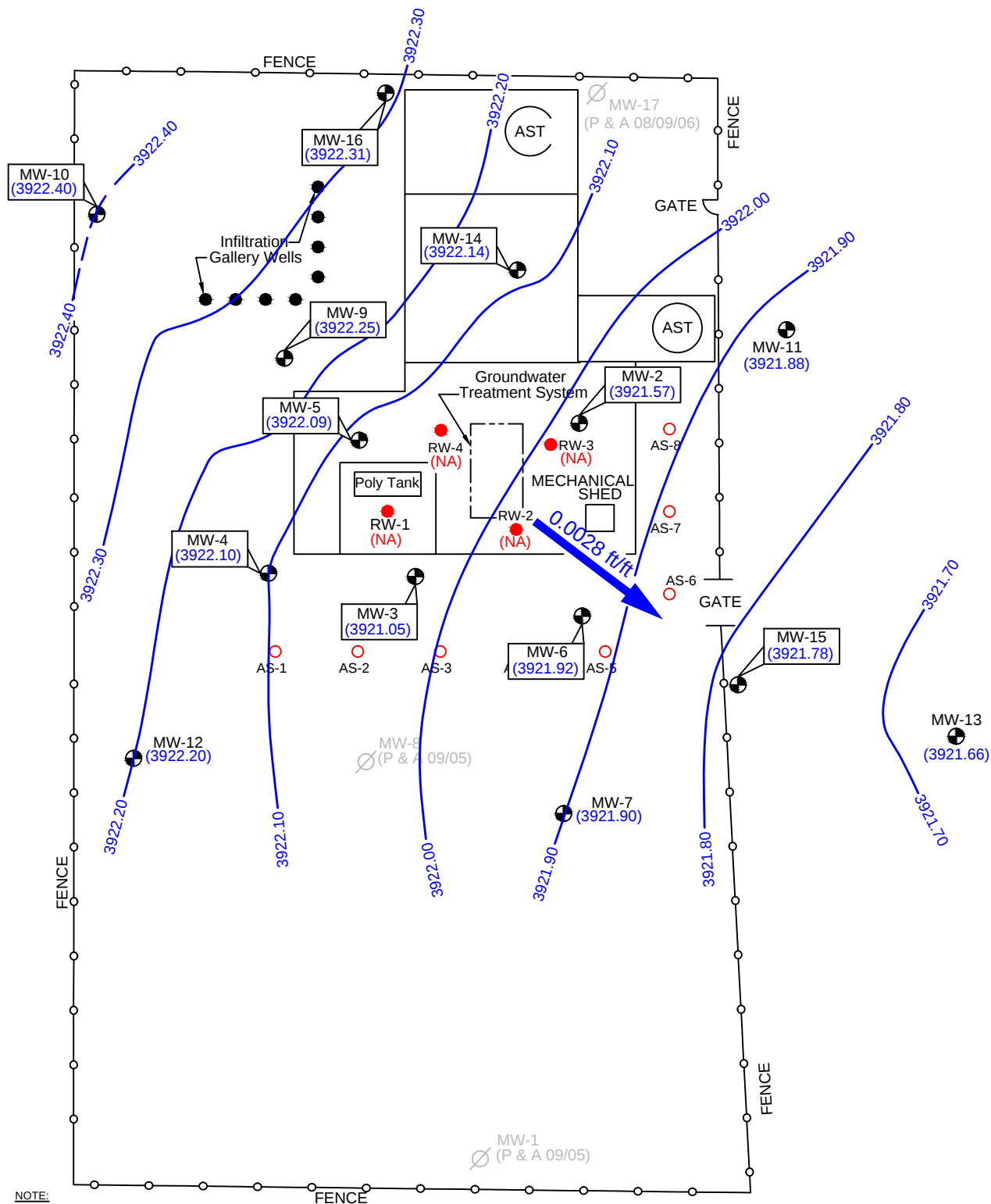
Lat. N 32.932527°, Long. W 103.420083°

SE1/4 SE1/4 Sec 11 T16S R35E



2057 Commerce Drive  
 Midland, Texas 79703  
 432.520.7720





**NOTE:**  
 MW-1 and MW-8 Were Plugged and Abandoned  
 September 2005 Per NMOCD Approval  
 RW-1, RW-2, RW-3, RW-4, & MW-18 were not used in the Construction of this Map  
 Gradient Measured Between MW-10 and MW-13.  
 Contour Interval = 0.10'  
 MW-2 & MW-3 not used in map construction.

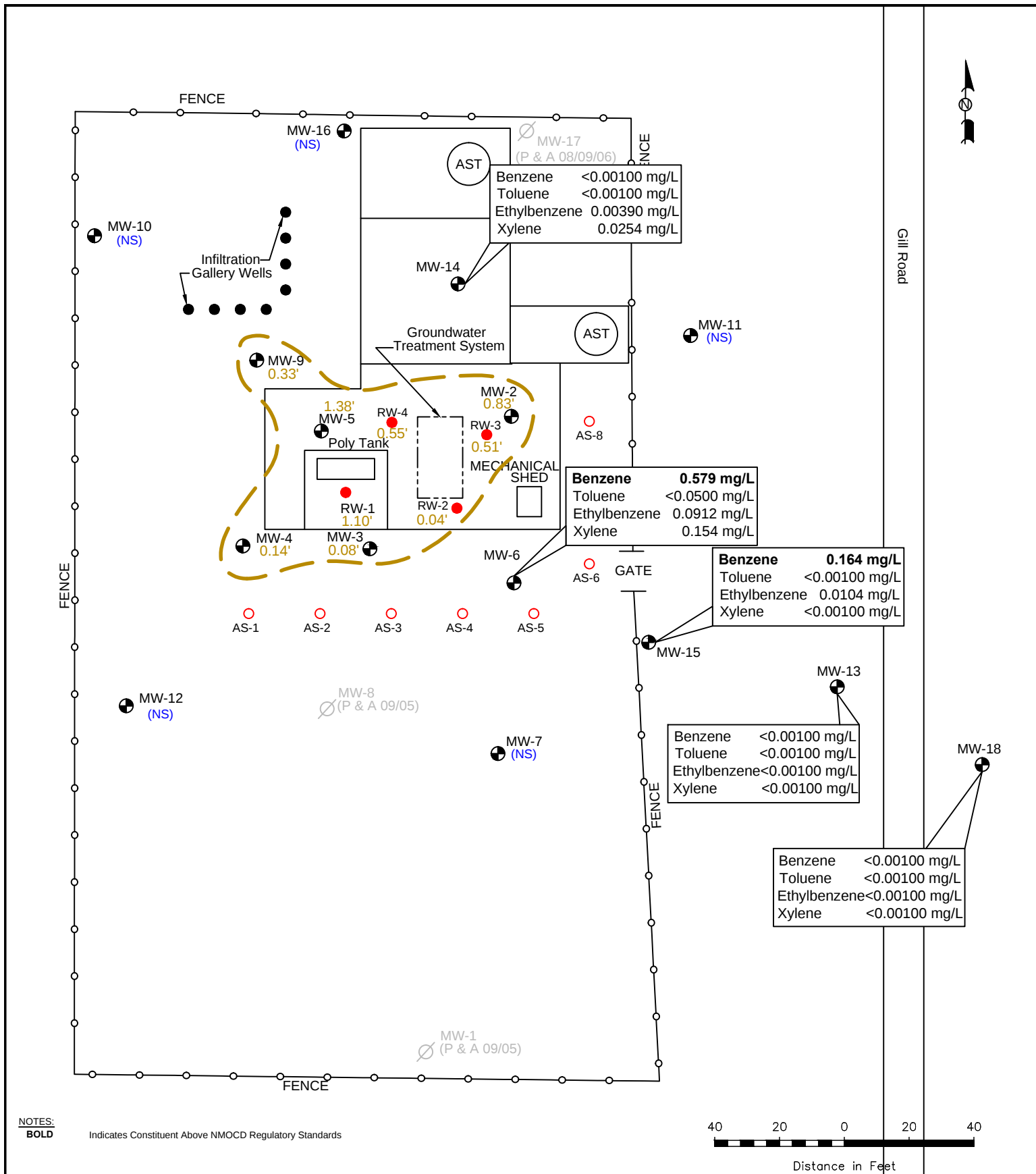
#### LEGEND:

- Monitoring Well Location
- Recovery Well Location
- Air Sparging Well Location
- Infiltration Gallery Well Location
- Groundwater Elevation Contour
- (NA) Not Available

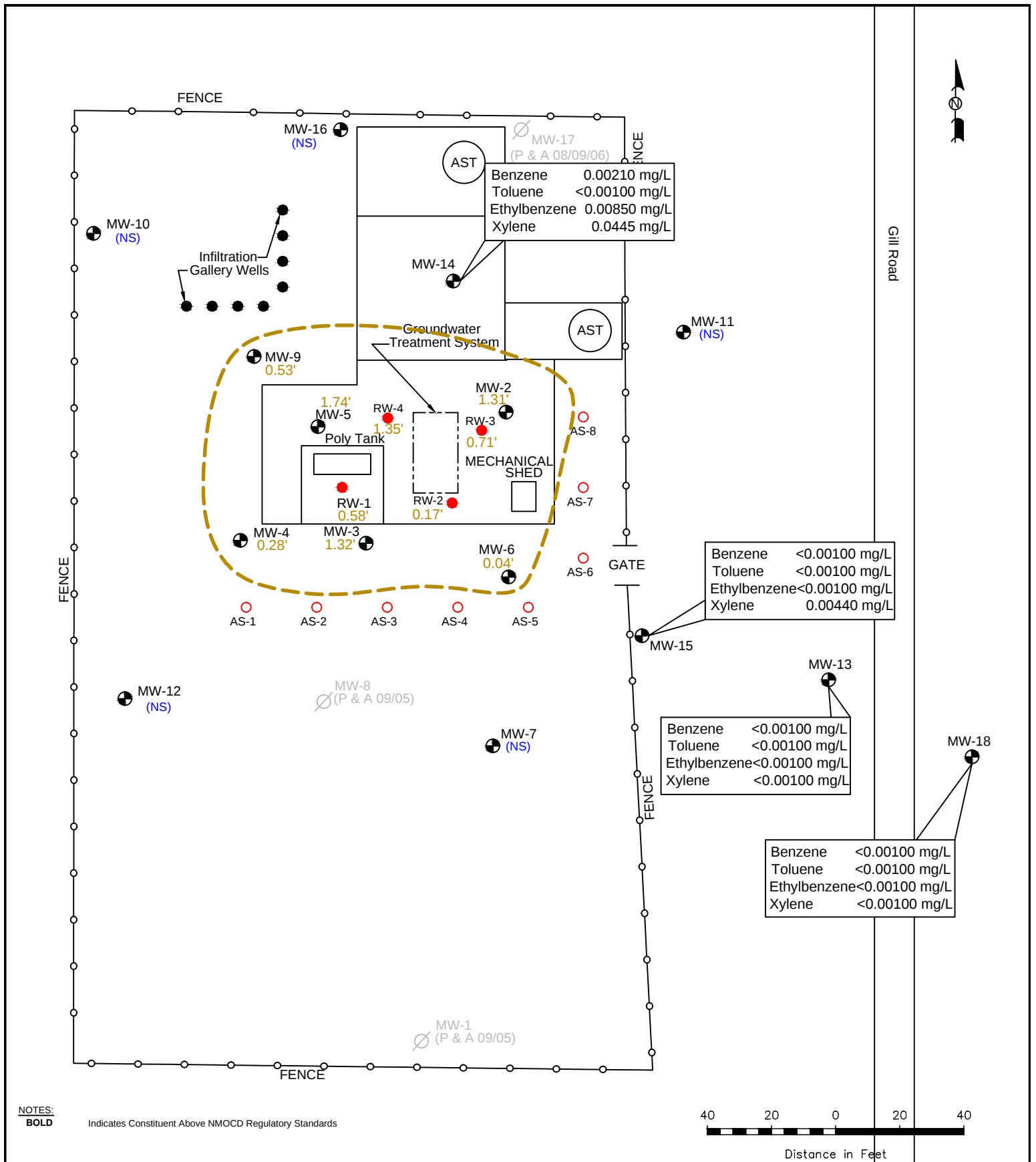
Figure 2D  
 Inferred Groundwater  
 Gradient Map  
 (11/23/2015)  
 Plains Marketing, L.P.  
 TNM 97-04  
 NMOCD Reference # GW-0294  
 Lea County, NM

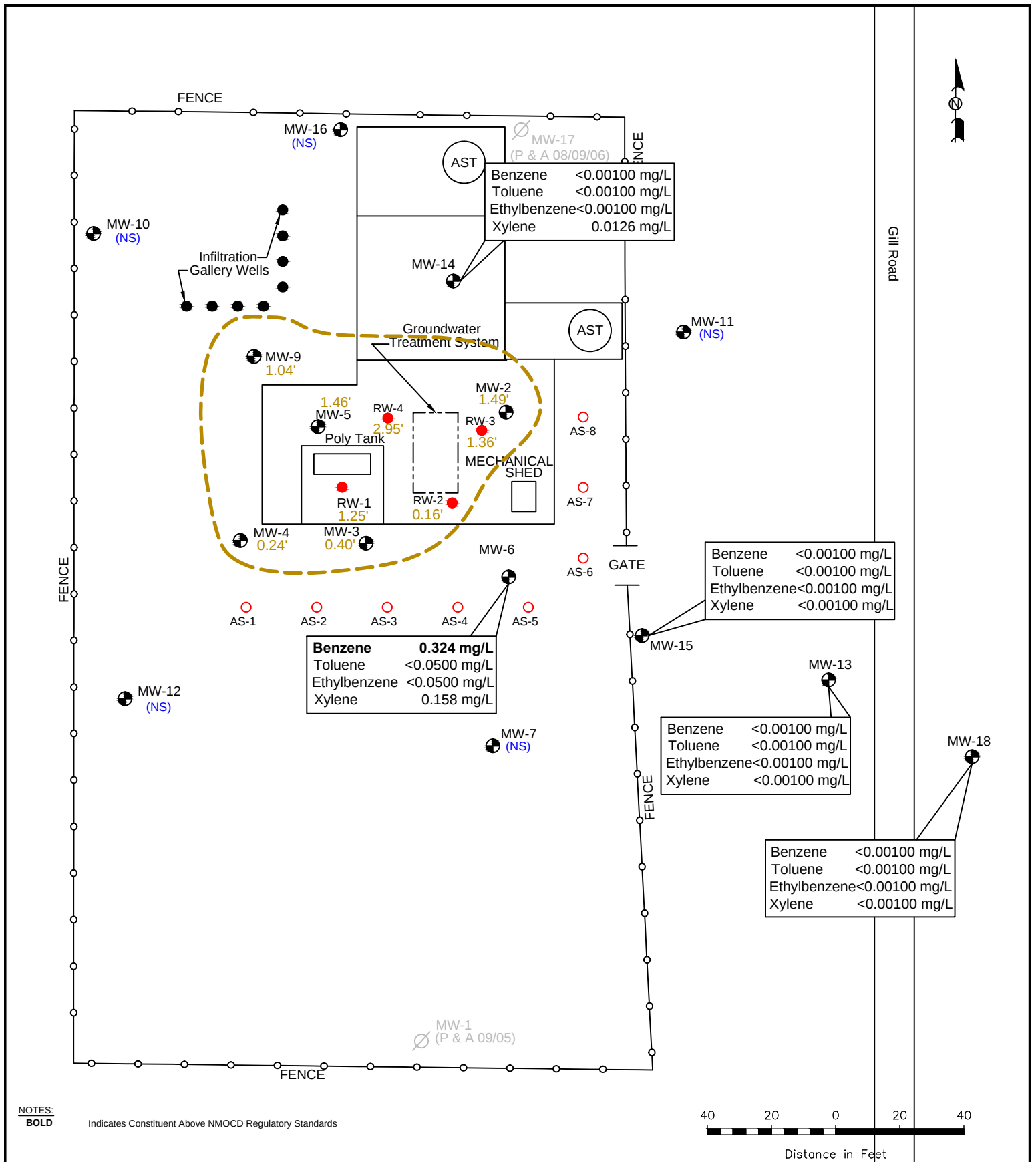
|                                        |
|----------------------------------------|
| Scale: 1" = 40'                        |
| CAD By: TA                             |
| Checked By: CS                         |
| Draft: December 3, 2015                |
| Lat. N 32.932527°, Long. W 103.420083° |
| SE1/4 SE1/4 Sec 11 T16S R35E           |





|                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                      |                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <p><b>LEGEND:</b></p> <ul style="list-style-type: none"> <li>Monitoring Well Location</li> <li>Recovery Well Location</li> <li>Air Sparging Well Location</li> <li>Infiltration Gallery Well Location</li> <li>Inferred PSH Extent</li> <li>&lt;0.001 Constituent Concentration (mg/L)</li> <li>2.42' Thickness of PSH (feet)</li> <li>(NS) Not Sampled</li> </ul> | <p><b>Figure 3A</b><br/>         Groundwater Concentration and Inferred PSH Extent Map<br/>         (2/19/2015)<br/>         Plains Marketing, L.P.<br/>         TNM 97-04<br/>         NMOC Reference # GW-0294<br/>         Lea County, NM</p> | <p><b>Scale:</b> 1" = 40'<br/> <b>CAD By:</b> TA<br/> <b>Checked By:</b> CS<br/> <b>Draft:</b> March 10, 2015<br/> <b>Lat.</b> N 32.932527°, <b>Long.</b> W 103.420083°<br/> <b>SE1/4 SE1/4 Sec 11 T16S R35E</b></p> | <p><b>TRC</b><br/>         2057 Commerce Drive<br/>         Midland, Texas 79703<br/>         432.520.7720</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|





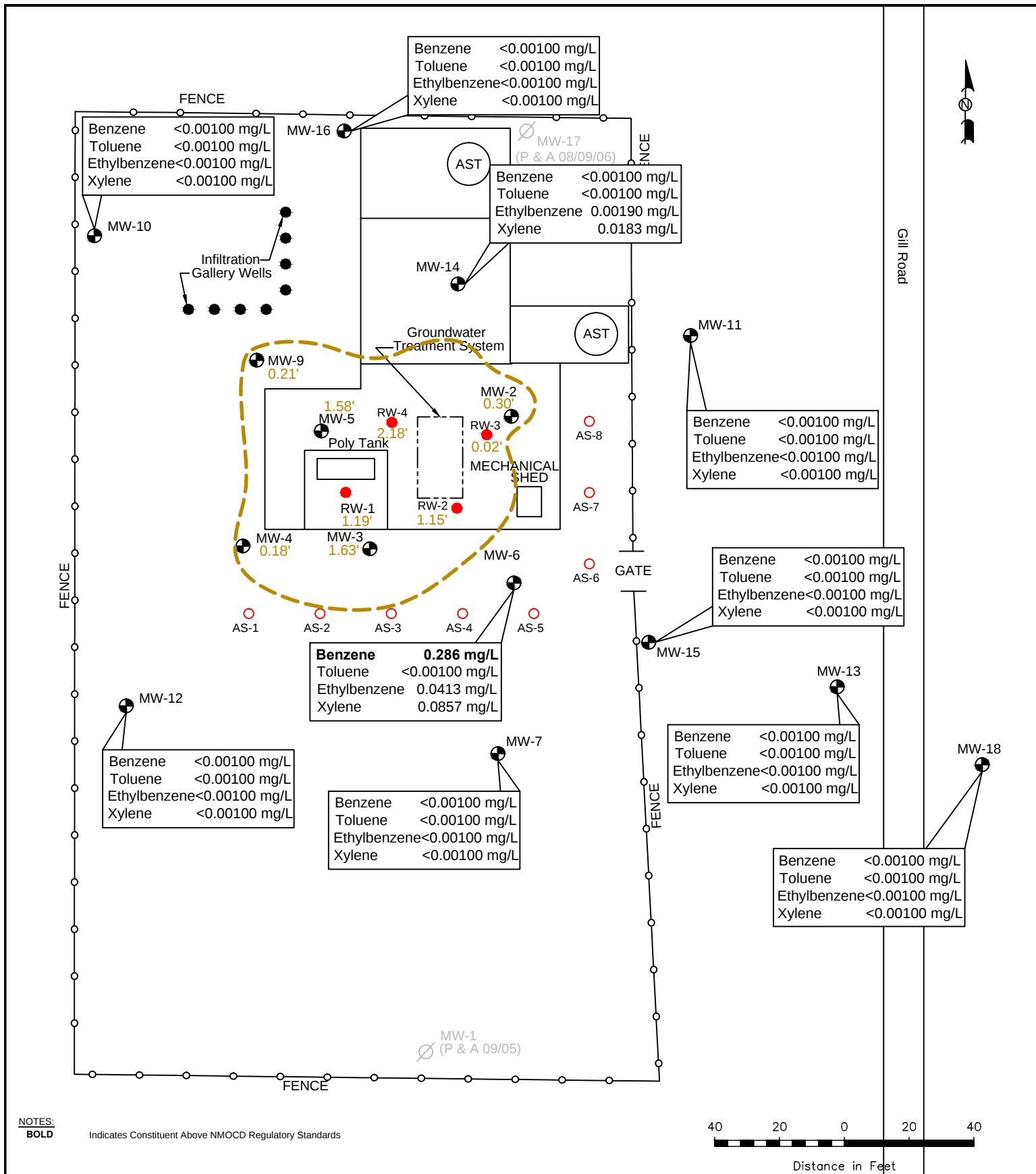
**Benzene** 0.324 mg/L  
Toluene <0.0500 mg/L  
Ethylbenzene <0.0500 mg/L  
Xylene 0.158 mg/L

**Benzene** <0.00100 mg/L  
Toluene <0.00100 mg/L  
Ethylbenzene <0.00100 mg/L  
Xylene 0.0126 mg/L

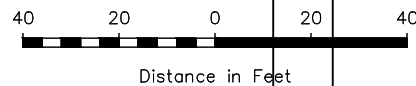
**Benzene** <0.00100 mg/L  
Toluene <0.00100 mg/L  
Ethylbenzene <0.00100 mg/L  
Xylene <0.00100 mg/L

**Benzene** <0.00100 mg/L  
Toluene <0.00100 mg/L  
Ethylbenzene <0.00100 mg/L  
Xylene <0.00100 mg/L

**Benzene** <0.00100 mg/L  
Toluene <0.00100 mg/L  
Ethylbenzene <0.00100 mg/L  
Xylene <0.00100 mg/L



NOTES:  
**Indicates Constituent Above NMOC Regulatory Standards**



**LEGEND:**

- Monitoring Well Location
- Recovery Well Location
- Air Sparging Well Location
- Infiltration Gallery Well Location
- Inferred PSH Extent
- <0.001 Constituent Concentration (mg/L)
- 2.42' Thickness of PSH (feet)
- (NS) Not Sampled

Figure 3D  
 Groundwater Concentration  
 and Inferred PSH Extent Map  
 (11/23/2015)  
 Plains Marketing, L.P.  
 TNM 97-04  
 NMOC Reference # GW-0294  
 Lea County, NM

|                                        |
|----------------------------------------|
| Scale: 1" = 40'                        |
| CAD By: TA                             |
| Checked By: CS                         |
| Draft: December 17, 2015               |
| Lat. N 32.932527°, Long. W 103.420083° |
| SE1/4 SE1/4 Sec 11 T16S R35E           |



TABLE 1

## 2015 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 2         | 01/05/15         | 3974.62                       | 52.38               | 53.46             | 1.08             | 3922.08                               |
| MW - 2         | 01/09/15         | 3974.62                       | 52.38               | 53.72             | 1.34             | 3922.04                               |
| MW - 2         | 01/14/15         | 3974.62                       | 53.37               | 53.74             | 0.37             | 3921.19                               |
| MW - 2         | 01/21/15         | 3974.62                       | 52.39               | 53.41             | 1.02             | 3922.08                               |
| MW - 2         | 02/18/15         | 3974.62                       | 52.64               | 54.21             | 1.57             | 3921.74                               |
| MW - 2         | 02/19/15         | 3974.62                       | 52.46               | 53.29             | 0.83             | 3922.04                               |
| MW - 2         | 03/09/15         | 3974.62                       | 52.38               | 53.40             | 1.02             | 3922.09                               |
| MW - 2         | 03/11/15         | 3974.62                       | 52.36               | 53.66             | 1.30             | 3922.07                               |
| MW - 2         | 03/18/15         | 3974.62                       | 52.35               | 53.66             | 1.31             | 3922.07                               |
| MW - 2         | 03/31/15         | 3974.62                       | 52.41               | 53.43             | 1.02             | 3922.06                               |
| MW - 2         | 04/09/15         | 3974.62                       | 52.35               | 53.58             | 1.23             | 3922.09                               |
| MW - 2         | 04/15/15         | 3974.62                       | 52.34               | 53.61             | 1.27             | 3922.09                               |
| MW - 2         | 04/22/15         | 3974.62                       | 52.34               | 53.63             | 1.29             | 3922.09                               |
| MW - 2         | 05/12/15         | 3974.62                       | 52.34               | 53.65             | 1.31             | 3922.08                               |
| MW - 2         | 05/26/15         | 3974.62                       | 52.40               | 53.38             | 0.98             | 3922.07                               |
| MW - 2         | 06/01/15         | 3974.62                       | 52.37               | 53.70             | 1.33             | 3922.05                               |
| MW - 2         | 06/04/15         | 3974.62                       | 52.35               | 53.61             | 1.26             | 3922.08                               |
| MW - 2         | 06/22/15         | 3974.62                       | 52.46               | 54.41             | 1.95             | 3921.87                               |
| MW - 2         | 06/26/15         | 3974.62                       | 52.75               | 54.40             | 1.65             | 3921.62                               |
| MW - 2         | 07/22/15         | 3974.62                       | 52.58               | 54.16             | 1.58             | 3921.80                               |
| MW - 2         | 07/27/15         | 3974.62                       | 52.66               | 54.03             | 1.37             | 3921.75                               |
| MW - 2         | 08/18/15         | 3974.62                       | 52.24               | 53.73             | 1.49             | 3922.16                               |
| MW - 2         | 09/09/15         | 3974.62                       | 52.00               | 53.85             | 1.85             | 3922.34                               |
| MW - 2         | 09/30/15         | 3974.62                       | 52.70               | 54.95             | 2.25             | 3921.58                               |
| MW - 2         | 10/08/15         | 3974.62                       | 52.54               | 54.57             | 2.03             | 3921.78                               |
| MW - 2         | 10/16/15         | 3974.62                       | 52.62               | 55.10             | 2.48             | 3921.63                               |
| MW - 2         | 10/21/15         | 3974.62                       | 52.45               | 53.80             | 1.35             | 3921.97                               |
| MW - 2         | 11/18/15         | 3974.62                       | 52.58               | 54.70             | 2.12             | 3921.72                               |
| MW - 2         | 11/23/15         | 3974.62                       | 53.01               | 53.31             | 0.30             | 3921.57                               |
| MW - 2         | 12/04/15         | 3974.62                       | 52.40               | 53.85             | 1.45             | 3922.00                               |
| MW - 2         | 12/09/15         | 3974.62                       | 52.71               | 54.88             | 2.17             | 3921.58                               |
|                |                  |                               |                     |                   |                  |                                       |
| MW - 3         | 01/05/15         | 3974.60                       | 52.71               | 53.09             | 0.38             | 3921.83                               |
| MW - 3         | 01/09/15         | 3974.60                       | 52.34               | 53.57             | 1.23             | 3922.08                               |
| MW - 3         | 01/14/15         | 3974.60                       | 52.33               | 53.66             | 1.33             | 3922.07                               |
| MW - 3         | 01/21/15         | 3974.60                       | 52.72               | 53.07             | 0.35             | 3921.83                               |
| MW - 3         | 02/19/15         | 3974.60                       | 52.74               | 52.82             | 0.08             | 3921.85                               |
| MW - 3         | 03/09/15         | 3974.60                       | 52.74               | 53.09             | 0.35             | 3921.81                               |
| MW - 3         | 03/11/15         | 3974.60                       | 52.81               | 53.19             | 0.38             | 3921.73                               |
| MW - 3         | 03/31/15         | 3974.60                       | 52.74               | 53.09             | 0.35             | 3921.81                               |
| MW - 3         | 04/09/15         | 3974.60                       | 52.44               | 52.92             | 0.48             | 3922.09                               |
| MW - 3         | 04/15/15         | 3974.60                       | 52.33               | 52.37             | 0.04             | 3922.26                               |
| MW - 3         | 04/22/15         | 3974.60                       | 52.33               | 53.50             | 1.17             | 3922.09                               |
| MW - 3         | 05/12/15         | 3974.60                       | 52.30               | 53.62             | 1.32             | 3922.10                               |

TABLE 1

## 2015 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 3      | 05/26/15      | 3974.60                 | 52.71            | 53.04          | 0.33          | 3921.84                         |
| MW - 3      | 06/01/15      | 3974.60                 | 52.34            | 53.41          | 1.07          | 3922.10                         |
| MW - 3      | 06/04/15      | 3974.60                 | 52.29            | 53.67          | 1.38          | 3922.10                         |
| MW - 3      | 07/27/15      | 3974.60                 | 52.71            | 52.73          | 0.02          | 3921.89                         |
| MW - 3      | 08/18/15      | 3974.60                 | 52.45            | 52.85          | 0.40          | 3922.09                         |
| MW - 3      | 10/08/15      | 3974.60                 | 52.74            | 53.21          | 0.47          | 3921.79                         |
| MW - 3      | 10/21/15      | 3974.60                 | 52.49            | 53.15          | 0.66          | 3922.01                         |
| MW - 3      | 11/23/15      | 3974.60                 | 53.31            | 54.94          | 1.63          | 3921.05                         |
|             |               |                         |                  |                |               |                                 |
| MW - 4      | 01/05/15      | 3974.53                 | 51.91            | 52.06          | 0.15          | 3922.60                         |
| MW - 4      | 01/09/15      | 3974.53                 | 52.35            | 52.52          | 0.17          | 3922.15                         |
| MW - 4      | 01/14/15      | 3974.53                 | 52.35            | 52.54          | 0.19          | 3922.15                         |
| MW - 4      | 01/21/15      | 3974.53                 | 51.92            | 52.08          | 0.16          | 3922.59                         |
| MW - 4      | 02/18/15      | 3974.53                 | 52.40            | 52.73          | 0.33          | 3922.08                         |
| MW - 4      | 02/19/15      | 3974.53                 | 52.35            | 52.49          | 0.14          | 3922.16                         |
| MW - 4      | 03/09/15      | 3974.53                 | 51.92            | 52.09          | 0.17          | 3922.58                         |
| MW - 4      | 03/11/15      | 3974.53                 | 52.33            | 52.57          | 0.24          | 3922.16                         |
| MW - 4      | 03/18/15      | 3974.53                 | 52.31            | 52.57          | 0.26          | 3922.18                         |
| MW - 4      | 03/31/15      | 3974.53                 | 51.94            | 52.06          | 0.12          | 3922.57                         |
| MW - 4      | 04/09/15      | 3974.53                 | 52.28            | 52.59          | 0.31          | 3922.20                         |
| MW - 4      | 04/15/15      | 3974.53                 | 52.27            | 52.60          | 0.33          | 3922.21                         |
| MW - 4      | 04/22/15      | 3974.53                 | 52.28            | 52.65          | 0.37          | 3922.19                         |
| MW - 4      | 05/12/15      | 3974.53                 | 52.31            | 52.59          | 0.28          | 3922.18                         |
| MW - 4      | 05/26/15      | 3974.53                 | 51.93            | 52.07          | 0.14          | 3922.58                         |
| MW - 4      | 06/01/15      | 3974.53                 | 52.30            | 52.58          | 0.28          | 3922.19                         |
| MW - 4      | 06/04/15      | 3974.53                 | 52.32            | 52.59          | 0.27          | 3922.17                         |
| MW - 4      | 06/22/15      | 3974.53                 | 52.42            | 52.80          | 0.38          | 3922.05                         |
| MW - 4      | 06/26/15      | 3974.53                 | 52.42            | 52.77          | 0.35          | 3922.06                         |
| MW - 4      | 07/22/15      | 3974.53                 | 52.27            | 52.53          | 0.26          | 3922.22                         |
| MW - 4      | 07/27/15      | 3974.53                 | 52.43            | 52.73          | 0.30          | 3922.06                         |
| MW - 4      | 08/18/15      | 3974.53                 | 52.32            | 52.56          | 0.24          | 3922.17                         |
| MW - 4      | 09/09/15      | 3974.53                 | 52.49            | 52.87          | 0.38          | 3921.98                         |
| MW - 4      | 09/30/15      | 3974.53                 | 52.56            | 53.00          | 0.44          | 3921.90                         |
| MW - 4      | 10/08/15      | 3974.53                 | 52.48            | 52.64          | 0.16          | 3922.03                         |
| MW - 4      | 10/16/15      | 3974.53                 | 52.54            | 52.76          | 0.22          | 3921.96                         |
| MW - 4      | 10/21/15      | 3974.53                 | 52.40            | 52.55          | 0.15          | 3922.11                         |
| MW - 4      | 11/18/15      | 3974.53                 | 52.54            | 52.65          | 0.11          | 3921.97                         |
| MW - 4      | 11/23/15      | 3974.53                 | 52.40            | 52.58          | 0.18          | 3922.10                         |
| MW - 4      | 12/04/15      | 3974.60                 | 52.36            | 52.55          | 0.19          | 3922.21                         |
| MW - 4      | 12/09/15      | 3974.53                 | 52.55            | 52.85          | 0.30          | 3921.94                         |
|             |               |                         |                  |                |               |                                 |
| MW - 5      | 01/05/15      | 3974.27                 | 51.88            | 53.42          | 1.54          | 3922.16                         |
| MW - 5      | 01/09/15      | 3974.27                 | 51.86            | 53.63          | 1.77          | 3922.14                         |
| MW - 5      | 01/14/15      | 3974.27                 | 51.86            | 53.65          | 1.79          | 3922.14                         |

TABLE 1

## 2015 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 5      | 01/21/15      | 3974.27                 | 51.86            | 53.40          | 1.54          | 3922.18                         |
| MW - 5      | 02/18/15      | 3974.27                 | 51.95            | 53.69          | 1.74          | 3922.06                         |
| MW - 5      | 02/19/15      | 3974.27                 | 51.92            | 53.30          | 1.38          | 3922.14                         |
| MW - 5      | 03/09/15      | 3974.27                 | 51.87            | 53.38          | 1.51          | 3922.17                         |
| MW - 5      | 03/11/15      | 3974.27                 | 51.85            | 53.58          | 1.73          | 3922.16                         |
| MW - 5      | 03/18/15      | 3974.27                 | 51.85            | 53.52          | 1.67          | 3922.17                         |
| MW - 5      | 03/31/15      | 3974.27                 | 51.88            | 53.42          | 1.54          | 3922.16                         |
| MW - 5      | 04/09/15      | 3974.27                 | 51.84            | 53.46          | 1.62          | 3922.19                         |
| MW - 5      | 04/15/15      | 3974.27                 | 51.83            | 53.51          | 1.68          | 3922.19                         |
| MW - 5      | 04/22/15      | 3974.27                 | 51.83            | 53.55          | 1.72          | 3922.18                         |
| MW - 5      | 05/12/15      | 3974.27                 | 51.84            | 53.58          | 1.74          | 3922.17                         |
| MW - 5      | 05/26/15      | 3974.27                 | 51.84            | 53.37          | 1.53          | 3922.20                         |
| MW - 5      | 06/01/15      | 3974.27                 | 51.85            | 53.58          | 1.73          | 3922.16                         |
| MW - 5      | 06/04/15      | 3974.27                 | 51.84            | 53.67          | 1.83          | 3922.16                         |
| MW - 5      | 06/22/15      | 3974.27                 | 51.95            | 54.00          | 2.05          | 3922.01                         |
| MW - 5      | 06/26/15      | 3974.27                 | 52.10            | 53.93          | 1.83          | 3921.90                         |
| MW - 5      | 07/22/15      | 3974.27                 | 52.02            | 53.53          | 1.51          | 3922.02                         |
| MW - 5      | 07/27/15      | 3974.27                 | 52.08            | 53.83          | 1.75          | 3921.93                         |
| MW - 5      | 08/18/15      | 3974.27                 | 51.85            | 53.31          | 1.46          | 3922.20                         |
| MW - 5      | 09/09/15      | 3974.27                 | 52.00            | 54.15          | 2.15          | 3921.95                         |
| MW - 5      | 09/30/15      | 3974.27                 | 52.14            | 54.50          | 2.36          | 3921.78                         |
| MW - 5      | 10/08/15      | 3974.27                 | 51.98            | 53.90          | 1.92          | 3922.00                         |
| MW - 5      | 10/16/15      | 3974.27                 | 52.08            | 54.27          | 2.19          | 3921.86                         |
| MW - 5      | 10/21/15      | 3974.27                 | 52.50            | 53.84          | 1.34          | 3921.57                         |
| MW - 5      | 11/18/15      | 3974.27                 | 52.03            | 53.95          | 1.92          | 3921.95                         |
| MW - 5      | 11/23/15      | 3974.27                 | 51.94            | 53.52          | 1.58          | 3922.09                         |
| MW - 5      | 12/04/15      | 3974.27                 | 51.85            | 53.69          | 1.84          | 3922.14                         |
| MW - 5      | 12/09/15      | 3974.27                 | 52.14            | 54.19          | 2.05          | 3921.82                         |
|             |               |                         |                  |                |               |                                 |
| MW - 6      | 01/05/15      | 3974.72                 | 52.78            | 53.04          | 0.26          | 3921.90                         |
| MW - 6      | 01/09/15      | 3974.72                 | 52.74            | 52.80          | 0.06          | 3921.97                         |
| MW - 6      | 01/14/15      | 3974.72                 | 52.75            | 52.81          | 0.06          | 3921.96                         |
| MW - 6      | 01/21/15      | 3974.72                 | 52.77            | 53.06          | 0.29          | 3921.91                         |
| MW - 6      | 02/19/15      | 3974.72                 | -                | 52.85          | 0.00          | 3921.87                         |
| MW - 6      | 03/09/15      | 3974.72                 | 52.78            | 53.06          | 0.28          | 3921.90                         |
| MW - 6      | 03/11/15      | 3974.72                 | 52.75            | 52.83          | 0.08          | 3921.96                         |
| MW - 6      | 03/31/15      | 3974.72                 | 52.79            | 53.10          | 0.31          | 3921.88                         |
| MW - 6      | 04/09/15      | 3974.72                 | -                | 52.75          | 0.00          | 3921.97                         |
| MW - 6      | 04/15/15      | 3974.72                 | -                | 52.75          | 0.00          | 3921.97                         |
| MW - 6      | 04/22/15      | 3974.72                 | -                | 52.76          | 0.00          | 3921.96                         |
| MW - 6      | 05/12/15      | 3974.72                 | 52.72            | 52.76          | 0.04          | 3921.99                         |
| MW - 6      | 05/26/15      | 3974.72                 | 52.78            | 52.97          | 0.19          | 3921.91                         |
| MW - 6      | 06/01/15      | 3974.72                 | 52.74            | 52.78          | 0.04          | 3921.97                         |
| MW - 6      | 06/04/15      | 3974.72                 | 52.75            | 52.84          | 0.09          | 3921.96                         |

TABLE 1

## 2015 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 6      | 07/27/15      | 3974.72                 | -                | 53.26          | 0.00          | 3921.46                         |
| MW - 6      | 08/18/15      | 3974.72                 | -                | 52.75          | 0.00          | 3921.97                         |
| MW - 6      | 10/08/15      | 3974.72                 | -                | 53.34          | 0.00          | 3921.38                         |
| MW - 6      | 10/21/15      | 3974.72                 | -                | 52.83          | 0.00          | 3921.89                         |
| MW - 6      | 11/23/15      | 3974.72                 | -                | 52.80          | 0.00          | 3921.92                         |
|             |               |                         |                  |                |               |                                 |
| MW - 7      | 01/09/15      | 3974.60                 | -                | 52.68          | 0.00          | 3921.92                         |
| MW - 7      | 02/19/15      | 3974.60                 | -                | 52.71          | 0.00          | 3921.89                         |
| MW - 7      | 03/09/15      | 3974.60                 | -                | 52.78          | 0.00          | 3921.82                         |
| MW - 7      | 04/09/15      | 3974.60                 | -                | 52.64          | 0.00          | 3921.96                         |
| MW - 7      | 05/12/15      | 3974.60                 | -                | 52.64          | 0.00          | 3921.96                         |
| MW - 7      | 07/27/15      | 3974.60                 | -                | 52.78          | 0.00          | 3921.82                         |
| MW - 7      | 08/18/15      | 3974.60                 | -                | 52.66          | 0.00          | 3921.94                         |
| MW - 7      | 10/08/15      | 3974.60                 | -                | 52.88          | 0.00          | 3921.72                         |
| MW - 7      | 11/23/15      | 3974.60                 | -                | 52.70          | 0.00          | 3921.90                         |
|             |               |                         |                  |                |               |                                 |
| MW - 9      | 01/05/15      | 3975.06                 | 52.74            | 52.97          | 0.23          | 3922.29                         |
| MW - 9      | 01/09/15      | 3975.06                 | 52.73            | 53.23          | 0.50          | 3922.26                         |
| MW - 9      | 01/14/15      | 3975.06                 | 52.72            | 53.28          | 0.56          | 3922.26                         |
| MW - 9      | 01/21/15      | 3975.06                 | 52.71            | 52.96          | 0.25          | 3922.31                         |
| MW - 9      | 02/18/15      | 3975.06                 | 52.72            | 53.00          | 0.28          | 3922.30                         |
| MW - 9      | 02/19/15      | 3975.06                 | 52.73            | 53.06          | 0.33          | 3922.28                         |
| MW - 9      | 03/09/15      | 3975.06                 | 52.73            | 52.98          | 0.25          | 3922.29                         |
| MW - 9      | 03/11/15      | 3975.06                 | 52.70            | 53.26          | 0.56          | 3922.28                         |
| MW - 9      | 03/18/15      | 3975.06                 | 52.76            | 53.08          | 0.32          | 3922.25                         |
| MW - 9      | 03/31/15      | 3975.06                 | 52.74            | 52.97          | 0.23          | 3922.29                         |
| MW - 9      | 04/09/15      | 3975.06                 | 52.63            | 53.28          | 0.65          | 3922.33                         |
| MW - 9      | 04/15/15      | 3975.06                 | 52.66            | 53.31          | 0.65          | 3922.30                         |
| MW - 9      | 04/22/15      | 3975.06                 | 52.66            | 53.34          | 0.68          | 3922.30                         |
| MW - 9      | 05/12/15      | 3975.06                 | 52.70            | 53.23          | 0.53          | 3922.28                         |
| MW - 9      | 05/26/15      | 3975.06                 | 52.74            | 52.94          | 0.20          | 3922.29                         |
| MW - 9      | 06/01/15      | 3975.06                 | 52.69            | 53.24          | 0.55          | 3922.29                         |
| MW - 9      | 06/04/15      | 3975.06                 | 52.71            | 53.26          | 0.55          | 3922.27                         |
| MW - 9      | 06/22/15      | 3975.06                 | 52.64            | 53.26          | 0.62          | 3922.33                         |
| MW - 9      | 06/26/15      | 3975.06                 | 52.73            | 53.36          | 0.63          | 3922.24                         |
| MW - 9      | 07/22/15      | 3975.06                 | 52.57            | 53.09          | 0.52          | 3922.41                         |
| MW - 9      | 07/27/15      | 3975.06                 | 52.71            | 53.08          | 0.37          | 3922.29                         |
| MW - 9      | 08/18/15      | 3975.06                 | 52.01            | 53.05          | 1.04          | 3922.89                         |
| MW - 9      | 09/09/15      | 3975.06                 | 52.73            | 53.29          | 0.56          | 3922.25                         |
| MW - 9      | 10/08/15      | 3975.06                 | 52.73            | 53.08          | 0.35          | 3922.28                         |
| MW - 9      | 09/30/15      | 3975.06                 | 52.81            | 53.35          | 0.54          | 3922.17                         |
| MW - 9      | 10/16/15      | 3975.06                 | 52.85            | 53.29          | 0.44          | 3922.14                         |
| MW - 9      | 10/21/15      | 3975.06                 | 52.75            | 53.40          | 0.65          | 3922.21                         |
| MW - 9      | 11/18/15      | 3975.06                 | 52.75            | 53.15          | 0.40          | 3922.25                         |

TABLE 1

## 2015 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 9      | 11/23/15      | 3975.06                 | 52.78            | 52.99          | 0.21          | 3922.25                         |
| MW - 9      | 12/04/15      | 3975.06                 | 52.75            | 53.18          | 0.43          | 3922.25                         |
| MW - 9      | 12/09/15      | 3975.06                 | 52.85            | 53.26          | 0.41          | 3922.15                         |
|             |               |                         |                  |                |               |                                 |
| MW - 10     | 01/09/15      | 3975.02                 | -                | 52.64          | 0.00          | 3922.38                         |
| MW - 10     | 02/19/15      | 3975.02                 | -                | 52.61          | 0.00          | 3922.41                         |
| MW - 10     | 03/31/15      | 3975.02                 | -                | 52.55          | 0.00          | 3922.47                         |
| MW - 10     | 04/09/15      | 3975.02                 | -                | 52.58          | 0.00          | 3922.44                         |
| MW - 10     | 05/12/15      | 3975.02                 | -                | 52.59          | 0.00          | 3922.43                         |
| MW - 10     | 07/27/15      | 3975.02                 | -                | 52.58          | 0.00          | 3922.44                         |
| MW - 10     | 08/18/15      | 3975.02                 | -                | 52.51          | 0.00          | 3922.51                         |
| MW - 10     | 10/08/15      | 3975.02                 | -                | 52.57          | 0.00          | 3922.45                         |
| MW - 10     | 11/23/15      | 3975.02                 | -                | 52.62          | 0.00          | 3922.40                         |
|             |               |                         |                  |                |               |                                 |
| MW - 11     | 01/09/15      | 3975.30                 | -                | 53.39          | 0.00          | 3921.91                         |
| MW - 11     | 02/19/15      | 3975.30                 | -                | 53.40          | 0.00          | 3921.90                         |
| MW - 11     | 03/31/15      | 3975.30                 | -                | 53.40          | 0.00          | 3921.90                         |
| MW - 11     | 04/09/15      | 3975.30                 | -                | 53.33          | 0.00          | 3921.97                         |
| MW - 11     | 05/12/15      | 3975.30                 | -                | 53.55          | 0.00          | 3921.75                         |
| MW - 11     | 07/27/15      | 3975.30                 | -                | 53.42          | 0.00          | 3921.88                         |
| MW - 11     | 08/18/15      | 3975.30                 | -                | 53.36          | 0.00          | 3921.94                         |
| MW - 11     | 10/08/15      | 3975.30                 | -                | 53.48          | 0.00          | 3921.82                         |
| MW - 11     | 11/23/15      | 3975.30                 | -                | 53.42          | 0.00          | 3921.88                         |
|             |               |                         |                  |                |               |                                 |
| MW - 12     | 01/09/15      | 3974.55                 | -                | 52.34          | 0.00          | 3922.21                         |
| MW - 12     | 02/19/15      | 3974.55                 | -                | 52.34          | 0.00          | 3922.21                         |
| MW - 12     | 03/31/15      | 3974.55                 | -                | 52.35          | 0.00          | 3922.20                         |
| MW - 12     | 04/09/15      | 3974.55                 | -                | 52.28          | 0.00          | 3922.27                         |
| MW - 12     | 05/12/15      | 3974.55                 | -                | 52.29          | 0.00          | 3922.26                         |
| MW - 12     | 07/27/15      | 3974.55                 | -                | 52.36          | 0.00          | 3922.19                         |
| MW - 12     | 08/18/15      | 3974.55                 | -                | 52.33          | 0.00          | 3922.22                         |
| MW - 12     | 10/08/15      | 3974.55                 | -                | 52.42          | 0.00          | 3922.13                         |
| MW - 12     | 11/23/15      | 3974.55                 | -                | 52.35          | 0.00          | 3922.20                         |
|             |               |                         |                  |                |               |                                 |
| MW - 13     | 01/09/15      | 3975.00                 | -                | 53.35          | 0.00          | 3921.65                         |
| MW - 13     | 02/19/15      | 3975.00                 | -                | 53.34          | 0.00          | 3921.66                         |
| MW - 13     | 03/31/15      | 3975.00                 | -                | 53.35          | 0.00          | 3921.65                         |
| MW - 13     | 04/09/15      | 3975.00                 | -                | 53.29          | 0.00          | 3921.71                         |
| MW - 13     | 05/12/15      | 3975.00                 | -                | 53.30          | 0.00          | 3921.70                         |
| MW - 13     | 07/27/15      | 3975.00                 | -                | 53.37          | 0.00          | 3921.63                         |
| MW - 13     | 08/18/15      | 3975.00                 | -                | 53.35          | 0.00          | 3921.65                         |
| MW - 13     | 10/08/15      | 3975.00                 | -                | 53.43          | 0.00          | 3921.57                         |
| MW - 13     | 11/23/15      | 3975.00                 | -                | 53.34          | 0.00          | 3921.66                         |
|             |               |                         |                  |                |               |                                 |

TABLE 1

## 2015 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 14     | 01/09/15      | 3976.15                 | -                | 54.02          | 0.00          | 3922.13                         |
| MW - 14     | 02/19/15      | 3976.15                 | -                | 54.02          | 0.00          | 3922.13                         |
| MW - 14     | 03/31/15      | 3976.15                 | -                | 54.02          | 0.00          | 3922.13                         |
| MW - 14     | 04/09/15      | 3976.15                 | -                | 53.96          | 0.00          | 3922.19                         |
| MW - 14     | 05/12/15      | 3976.15                 | -                | 53.98          | 0.00          | 3922.17                         |
| MW - 14     | 07/27/15      | 3976.15                 | -                | 54.04          | 0.00          | 3922.11                         |
| MW - 14     | 08/18/15      | 3976.15                 | -                | 53.92          | 0.00          | 3922.23                         |
| MW - 14     | 10/08/15      | 3976.15                 | -                | 54.05          | 0.00          | 3922.10                         |
| MW - 14     | 11/23/15      | 3976.15                 | -                | 54.01          | 0.00          | 3922.14                         |
|             |               |                         |                  |                |               |                                 |
| MW - 15     | 01/09/15      | 3974.69                 | -                | 52.87          | 0.00          | 3921.82                         |
| MW - 15     | 02/19/15      | 3974.69                 | -                | 52.90          | 0.00          | 3921.79                         |
| MW - 15     | 03/31/15      | 3974.69                 | -                | 52.93          | 0.00          | 3921.76                         |
| MW - 15     | 04/09/15      | 3974.69                 | -                | 52.80          | 0.00          | 3921.89                         |
| MW - 15     | 05/12/15      | 3974.69                 | -                | 52.84          | 0.00          | 3921.85                         |
| MW - 15     | 07/27/15      | 3974.69                 | -                | 52.95          | 0.00          | 3921.74                         |
| MW - 15     | 08/18/15      | 3974.69                 | -                | 52.88          | 0.00          | 3921.81                         |
| MW - 15     | 10/08/15      | 3974.69                 | -                | 53.03          | 0.00          | 3921.66                         |
| MW - 15     | 11/23/15      | 3974.69                 | -                | 52.91          | 0.00          | 3921.78                         |
|             |               |                         |                  |                |               |                                 |
| MW - 16     | 01/09/15      | 3975.12                 | -                | 52.88          | 0.00          | 3922.24                         |
| MW - 16     | 02/19/15      | 3975.12                 | -                | 52.84          | 0.00          | 3922.28                         |
| MW - 16     | 03/31/15      | 3975.12                 | -                | 52.72          | 0.00          | 3922.40                         |
| MW - 16     | 04/09/15      | 3975.12                 | -                | 52.80          | 0.00          | 3922.32                         |
| MW - 16     | 05/12/15      | 3975.12                 | -                | 52.86          | 0.00          | 3922.26                         |
| MW - 16     | 07/27/15      | 3975.12                 | -                | 52.72          | 0.00          | 3922.40                         |
| MW - 16     | 08/18/15      | 3975.12                 | -                | 52.60          | 0.00          | 3922.52                         |
| MW - 16     | 10/08/15      | 3975.12                 | -                | 52.69          | 0.00          | 3922.43                         |
| MW - 16     | 11/23/15      | 3975.12                 | -                | 52.81          | 0.00          | 3922.31                         |
|             |               |                         |                  |                |               |                                 |
| MW - 18     | 01/09/15      | -                       | -                | 54.07          | 0.00          | -                               |
| MW - 18     | 02/19/15      | -                       | -                | 54.06          | 0.00          | -                               |
| MW - 18     | 03/31/15      | -                       | -                | 54.06          | 0.00          | -                               |
| MW - 18     | 04/09/15      | -                       | -                | 54.03          | 0.00          | -                               |
| MW - 18     | 05/12/15      | -                       | -                | 54.02          | 0.00          | -                               |
| MW - 18     | 07/27/15      | -                       | -                | 54.10          | 0.00          | -                               |
| MW - 18     | 08/18/15      | -                       | -                | 54.10          | 0.00          | -                               |
| MW - 18     | 10/08/15      | -                       | -                | 54.15          | 0.00          | -                               |
| MW - 18     | 11/23/15      | -                       | -                | 54.10          | 0.00          | -                               |
|             |               |                         |                  |                |               |                                 |
| RW - 1      | 01/05/15      | 3970.79                 | 52.80            | 53.17          | 0.37          | 3917.93                         |
| RW - 1      | 01/09/15      | 3970.79                 | 48.29            | 48.98          | 0.69          | 3922.40                         |
| RW - 1      | 01/14/15      | 3970.79                 | 48.31            | 49.15          | 0.84          | 3922.35                         |
| RW - 1      | 01/21/15      | 3970.79                 | 52.84            | 53.18          | 0.34          | 3917.90                         |

TABLE 1

## 2015 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| RW - 1      | 02/11/15      | 3970.79                 | 52.83            | 53.18          | 0.35          | 3917.91                         |
| RW - 1      | 02/19/15      | 3970.79                 | 49.00            | 50.10          | 1.10          | 3921.63                         |
| RW - 1      | 03/09/15      | 3970.79                 | 52.86            | 53.20          | 0.34          | 3917.88                         |
| RW - 1      | 03/11/15      | 3970.79                 | 53.13            | 53.48          | 0.35          | 3917.61                         |
| RW - 1      | 03/31/15      | 3970.79                 | 52.86            | 53.20          | 0.34          | 3917.88                         |
| RW - 1      | 04/09/15      | 3970.79                 | 48.34            | 48.40          | 0.06          | 3922.44                         |
| RW - 1      | 04/15/15      | 3970.79                 | 48.31            | 48.45          | 0.14          | 3922.46                         |
| RW - 1      | 04/22/15      | 3970.79                 | 48.33            | 48.64          | 0.31          | 3922.41                         |
| RW - 1      | 05/12/15      | 3970.79                 | 48.29            | 48.87          | 0.58          | 3922.41                         |
| RW - 1      | 05/26/15      | 3970.79                 | 52.81            | 53.15          | 0.34          | 3917.93                         |
| RW - 1      | 06/01/15      | 3970.79                 | 48.28            | 48.81          | 0.53          | 3922.43                         |
| RW - 1      | 06/04/15      | 3970.79                 | 48.28            | 48.66          | 0.38          | 3922.45                         |
| RW - 1      | 07/27/15      | 3970.79                 | 48.45            | 49.07          | 0.62          | 3922.25                         |
| RW - 1      | 08/18/15      | 3970.79                 | 48.14            | 49.39          | 1.25          | 3922.46                         |
| RW - 1      | 10/08/15      | 3970.79                 | 48.48            | 49.13          | 0.65          | 3922.21                         |
| RW - 1      | 10/21/15      | 3970.79                 | 48.35            | 48.39          | 0.04          | 3922.43                         |
| RW - 1      | 11/23/15      | 3970.79                 | 48.38            | 49.57          | 1.19          | 3922.23                         |
|             |               |                         |                  |                |               |                                 |
| RW - 2      | 01/05/15      | -                       | 52.73            | 53.48          | 0.75          | -                               |
| RW - 2      | 01/09/15      | -                       | 52.98            | 53.15          | 0.17          | -                               |
| RW - 2      | 01/14/15      | -                       | 53.00            | 53.17          | 0.17          | -                               |
| RW - 2      | 01/21/15      | -                       | 52.76            | 53.47          | 0.71          | -                               |
| RW - 2      | 02/11/15      | -                       | 52.74            | 53.46          | 0.72          | -                               |
| RW - 2      | 02/19/15      | -                       | 53.28            | 53.32          | 0.04          | -                               |
| RW - 2      | 03/09/15      | -                       | 52.73            | 53.46          | 0.73          | -                               |
| RW - 2      | 03/11/15      | -                       | 52.96            | 53.14          | 0.18          | -                               |
| RW - 2      | 03/31/15      | -                       | 52.77            | 53.49          | 0.72          | -                               |
| RW - 2      | 04/09/15      | -                       | 52.93            | 53.12          | 0.19          | -                               |
| RW - 2      | 04/15/15      | -                       | 52.93            | 53.23          | 0.30          | -                               |
| RW - 2      | 04/22/15      | -                       | 52.92            | 53.22          | 0.30          | -                               |
| RW - 2      | 05/12/15      | -                       | 52.98            | 53.15          | 0.17          | -                               |
| RW - 2      | 05/26/15      | -                       | 52.74            | 53.45          | 0.71          | -                               |
| RW - 2      | 06/01/15      | -                       | 52.96            | 53.08          | 0.12          | -                               |
| RW - 2      | 06/04/15      | -                       | 52.96            | 53.13          | 0.17          | -                               |
| RW - 2      | 07/27/15      | -                       | 53.14            | 53.19          | 0.05          | -                               |
| RW - 2      | 08/18/15      | -                       | 52.95            | 53.11          | 0.16          | -                               |
| RW - 2      | 10/08/15      | -                       | 53.17            | 53.65          | 0.48          | -                               |
| RW - 2      | 10/21/15      | -                       | 53.02            | 53.45          | 0.43          | -                               |
| RW - 2      | 11/23/15      | -                       | 52.45            | 53.60          | 1.15          | -                               |
|             |               |                         |                  |                |               |                                 |
| RW - 3      | 01/05/15      | -                       | 52.77            | 53.54          | 0.77          | -                               |
| RW - 3      | 01/09/15      | -                       | 53.48            | 53.86          | 0.38          | -                               |
| RW - 3      | 01/14/15      | -                       | 53.48            | 53.86          | 0.38          | -                               |
| RW - 3      | 01/21/15      | -                       | 52.78            | 53.56          | 0.78          | -                               |

TABLE 1

## 2015 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| RW - 3      | 02/11/15      | -                       | 52.77            | 53.54          | 0.77          | -                               |
| RW - 3      | 02/19/15      | -                       | 53.47            | 53.98          | 0.51          | -                               |
| RW - 3      | 03/09/15      | -                       | 52.75            | 53.55          | 0.80          | -                               |
| RW - 3      | 03/11/15      | -                       | 53.42            | 54.14          | 0.72          | -                               |
| RW - 3      | 03/31/15      | -                       | 52.78            | 53.57          | 0.79          | -                               |
| RW - 3      | 04/09/15      | -                       | 53.36            | 54.20          | 0.84          | -                               |
| RW - 3      | 04/15/15      | -                       | 53.34            | 54.30          | 0.96          | -                               |
| RW - 3      | 04/22/15      | -                       | 53.33            | 54.34          | 1.01          | -                               |
| RW - 3      | 05/12/15      | -                       | 53.39            | 54.10          | 0.71          | -                               |
| RW - 3      | 05/26/15      | -                       | 52.84            | 53.52          | 0.68          | -                               |
| RW - 3      | 06/01/15      | -                       | 53.42            | 54.02          | 0.60          | -                               |
| RW - 3      | 06/04/15      | -                       | 53.40            | 54.04          | 0.64          | -                               |
| RW - 3      | 07/27/15      | -                       | 53.48            | 54.45          | 0.97          | -                               |
| RW - 3      | 08/18/15      | -                       | 53.09            | 54.45          | 1.36          | -                               |
| RW - 3      | 10/08/15      | -                       | 53.38            | 54.99          | 1.61          | -                               |
| RW - 3      | 10/21/15      | -                       | 53.28            | 55.05          | 1.77          | -                               |
| RW - 3      | 11/23/15      | -                       | 52.55            | 52.57          | 0.02          | -                               |
|             |               |                         |                  |                |               |                                 |
| RW - 4      | 01/05/15      | -                       | 52.71            | 53.74          | 1.03          | -                               |
| RW - 4      | 01/09/15      | -                       | 53.42            | 54.37          | 0.95          | -                               |
| RW - 4      | 01/14/15      | -                       | 53.42            | 54.45          | 1.03          | -                               |
| RW - 4      | 01/21/15      | -                       | -                | 53.67          | 0.00          | -                               |
| RW - 4      | 02/11/15      | -                       | 52.72            | 53.70          | 0.98          | -                               |
| RW - 4      | 02/19/15      | -                       | 53.55            | 54.10          | 0.55          | -                               |
| RW - 4      | 03/09/15      | -                       | -                | 53.67          | 0.00          | -                               |
| RW - 4      | 03/11/15      | -                       | 53.45            | 54.14          | 0.69          | -                               |
| RW - 4      | 03/31/15      | -                       | 52.69            | 53.68          | 0.99          | -                               |
| RW - 4      | 04/09/15      | -                       | 53.33            | 54.62          | 1.29          | -                               |
| RW - 4      | 04/15/15      | -                       | 53.30            | 54.69          | 1.39          | -                               |
| RW - 4      | 04/22/15      | -                       | 53.30            | 54.73          | 1.43          | -                               |
| RW - 4      | 05/12/15      | -                       | 53.33            | 54.68          | 1.35          | -                               |
| RW - 4      | 05/26/15      | -                       | 52.79            | 53.64          | 0.85          | -                               |
| RW - 4      | 06/01/15      | -                       | 53.35            | 54.63          | 1.28          | -                               |
| RW - 4      | 06/04/15      | -                       | 53.31            | 54.68          | 1.37          | -                               |
| RW - 4      | 07/27/15      | -                       | 53.23            | 55.83          | 2.60          | -                               |
| RW - 4      | 08/18/15      | -                       | 53.01            | 55.96          | 2.95          | -                               |
| RW - 4      | 10/08/15      | -                       | 53.16            | 55.08          | 1.92          | -                               |
| RW - 4      | 10/21/15      | -                       | 53.14            | 55.85          | 2.71          | -                               |
| RW - 4      | 11/23/15      | -                       | 53.37            | 55.55          | 2.18          | -                               |
|             |               |                         |                  |                |               |                                 |

TABLE 2

## 2015 CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION            | SAMPLE<br>DATE | EPA SW 846-8021B, 5030                 |          |                   |                   |                |
|-------------------------------|----------------|----------------------------------------|----------|-------------------|-------------------|----------------|
|                               |                | BENZENE                                | TOLUENE  | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| NMOCD REGULATORY<br>GUIDELINE |                | 0.01                                   | 0.75     | 0.75              | 0.62              |                |
| MW - 2                        | 02/19/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 2                        | 05/12/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 2                        | 08/18/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 2                        | 11/23/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
|                               |                |                                        |          |                   |                   |                |
| MW - 3                        | 02/19/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 3                        | 05/12/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 3                        | 08/18/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 3                        | 11/23/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
|                               |                |                                        |          |                   |                   |                |
| MW - 4                        | 02/19/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 4                        | 05/12/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 4                        | 08/18/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 4                        | 11/23/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
|                               |                |                                        |          |                   |                   |                |
| MW - 5                        | 02/19/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 5                        | 05/12/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 5                        | 08/18/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 5                        | 11/23/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
|                               |                |                                        |          |                   |                   |                |
| MW - 6                        | 02/19/15       | 0.579                                  | <0.0500  | 0.0912            | 0.154             |                |
| MW - 6                        | 05/12/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 6                        | 08/18/15       | 0.324                                  | <0.0500  | <0.0500           | 0.158             |                |
| MW - 6                        | 11/23/15       | 0.286                                  | <0.00100 | 0.0413            | 0.0857            |                |
|                               |                |                                        |          |                   |                   |                |
| MW - 7                        | 02/19/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 7                        | 05/12/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 7                        | 08/18/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 7                        | 11/23/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
|                               |                |                                        |          |                   |                   |                |
| MW - 9                        | 02/19/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 9                        | 05/12/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 9                        | 08/18/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 9                        | 11/23/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
|                               |                |                                        |          |                   |                   |                |
| MW - 10                       | 02/19/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 10                       | 05/12/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 10                       | 08/18/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 10                       | 11/23/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
|                               |                |                                        |          |                   |                   |                |
| MW - 11                       | 02/19/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |

TABLE 2

## 2015 CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION            | SAMPLE<br>DATE | EPA SW 846-8021B, 5030                 |          |                   |                   |                |
|-------------------------------|----------------|----------------------------------------|----------|-------------------|-------------------|----------------|
|                               |                | BENZENE                                | TOLUENE  | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| NMOCD REGULATORY<br>GUIDELINE |                | 0.01                                   | 0.75     | 0.75              | 0.62              |                |
| MW - 11                       | 05/12/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11                       | 08/18/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11                       | 11/23/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
|                               |                |                                        |          |                   |                   |                |
| MW - 12                       | 02/19/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 12                       | 05/12/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 12                       | 08/18/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 12                       | 11/23/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
|                               |                |                                        |          |                   |                   |                |
| MW - 13                       | 02/19/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 13                       | 05/12/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 13                       | 08/18/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 13                       | 11/23/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
|                               |                |                                        |          |                   |                   |                |
| MW - 14                       | 02/19/15       | <0.00100                               | <0.00100 | 0.00390           | 0.0254            |                |
| MW - 14                       | 05/12/15       | 0.00210                                | <0.00100 | 0.00850           | 0.0445            |                |
| MW - 14                       | 08/18/15       | <0.00100                               | <0.00100 | <0.00100          | 0.0126            |                |
| MW - 14                       | 11/23/15       | <0.00100                               | <0.00100 | 0.00190           | 0.0183            |                |
|                               |                |                                        |          |                   |                   |                |
| MW - 15                       | 02/19/15       | 0.164                                  | <0.00100 | 0.0104            | <0.00100          |                |
| MW - 15                       | 05/12/15       | <0.00100                               | <0.00100 | <0.00100          | 0.00440           |                |
| MW - 15                       | 08/18/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 15                       | 11/23/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
|                               |                |                                        |          |                   |                   |                |
| MW - 16                       | 02/19/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16                       | 05/12/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16                       | 08/18/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16                       | 11/23/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
|                               |                |                                        |          |                   |                   |                |
| MW - 18                       | 02/19/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 18                       | 05/12/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 18                       | 08/18/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 18                       | 11/23/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
|                               |                |                                        |          |                   |                   |                |
| RW - 1                        | 02/19/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| RW - 1                        | 05/12/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| RW - 1                        | 08/18/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| RW - 1                        | 11/23/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
|                               |                |                                        |          |                   |                   |                |
| RW - 2                        | 02/19/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| RW - 2                        | 05/12/15       | Not Sampled Due to PSH in Well         |          |                   |                   |                |

TABLE 2

## 2015 CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCACTION           | SAMPLE<br>DATE | EPA SW 846-8021B, 5030         |         |                   |                   |                |
|-------------------------------|----------------|--------------------------------|---------|-------------------|-------------------|----------------|
|                               |                | BENZENE                        | TOLUENE | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| NMOCD REGULATORY<br>GUIDELINE |                | 0.01                           | 0.75    | 0.75              | 0.62              |                |
| RW - 2                        | 08/18/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2                        | 11/23/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
|                               |                |                                |         |                   |                   |                |
| RW - 3                        | 02/19/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3                        | 05/12/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3                        | 08/18/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3                        | 11/23/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
|                               |                |                                |         |                   |                   |                |
| RW - 4                        | 02/19/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4                        | 05/12/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4                        | 08/18/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4                        | 11/23/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
|                               |                |                                |         |                   |                   |                |

TABLE 3

## 2015 POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04 TOWNSEND  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L

| SAMPLE LOCATION                                                                                 | SAMPLE DATE | EPA SW846-8270C, 3510                              |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|-------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------------------|-------------|-----------------------|--------------|------------|------------------------|--------------|------------|-------------|---------------------|---------------------|--------------|
|                                                                                                 |             | 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 | Fluoranthene | Fluorene   | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene     | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene | Dibenzofuran |
| Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A. |             | ---                                                | ---            | 0.001 mg/L | 0.0001 mg/L        | 0.0007 mg/L    | 0.001 mg/L           | ---                  | 0.001 mg/L           | 0.0002 mg/L | 0.0003 mg/L           | 0.001 mg/L   | 0.001 mg/L | 0.0004 mg/L            | 0.001 mg/L   | 0.001 mg/L | 0.03 mg/L   |                     |                     | ---          |
| MW-2                                                                                            | 11/23/15    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-3                                                                                            | 11/23/15    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-4                                                                                            | 11/23/15    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-5                                                                                            | 11/23/15    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-6                                                                                            | 11/23/15    | <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-7                                                                                            | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-9                                                                                            | 11/23/15    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-10                                                                                           | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-11                                                                                           | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-12                                                                                           | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-13                                                                                           | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-14                                                                                           | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-15                                                                                           | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-16                                                                                           | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-18                                                                                           | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                                    |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |

TABLE 3

## 2015 POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

*All water concentrations are reported in mg/L*

| SAMPLE LOCATION                                                                                 | SAMPLE DATE | EPA SW846-8270C, 3510                   |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|-------------------------------------------------------------------------------------------------|-------------|-----------------------------------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------------------|-------------|-----------------------|--------------|------------|------------------------|--------------|------------|-------------|---------------------|---------------------|--------------|
|                                                                                                 |             | 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 | Fluoranthene | Fluorene   | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene     | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene | Dibenzofuran |
| Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A. |             | ---                                     | ---            | 0.001 mg/L | 0.0001 mg/L        | 0.0007 mg/L    | 0.001 mg/L           | ---                  | 0.001 mg/L           | 0.0002 mg/L | 0.0003 mg/L           | 0.001 mg/L   | 0.001 mg/L | 0.0004 mg/L            | 0.001 mg/L   | 0.001 mg/L | 0.03 mg/L   |                     |                     | ---          |
| RW-1                                                                                            | 11/23/15    | Not Sampled due to the presence of PSH. |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| RW-2                                                                                            | 11/23/15    | Not Sampled due to the presence of PSH. |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| RW-3                                                                                            | 11/23/15    | Not Sampled due to the presence of PSH. |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| RW-4                                                                                            | 11/23/15    | Not Sampled due to the presence of PSH. |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |

TABLE 4

## 2015 BTEX CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

## Results and Regulatory Guidelines in mg/L

| Sample Date                 | Sample Location | Benzene  | Toluene  | Ethylbenzene | Xylenes  |
|-----------------------------|-----------------|----------|----------|--------------|----------|
| NMOCD Regulatory Guidelines |                 | 0.01     | 0.75     | 0.75         | 0.62     |
| 03/25/15                    | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 06/30/15                    | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 07/27/15                    | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 08/24/15                    | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 09/08/15                    | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 09/23/15                    | Post Carbon***  | 0.0357   | 0.00350  | 0.00210      | 0.0117   |
| 09/29/15                    | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 10/28/15                    | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 11/19/15                    | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
|                             |                 |          |          |              |          |

\*\*\*Resampled 9/29/15 Post Carbon sample due to inconsistent analytical results, results likely due to field error.

TABLE 5

## 2015 POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L

| SAMPLE LOCATION                                                                                 | SAMPLE DATE | EPA SW846-8270C, 3510 |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
|-------------------------------------------------------------------------------------------------|-------------|-----------------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------------------|-------------|-----------------------|--------------|------------|------------------------|--------------|------------|-------------|---------------------|---------------------|
|                                                                                                 |             | 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 | Fluoranthene | Fluorene   | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene     | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene |
| Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A. |             | ---                   | ---            | 0.001 mg/L | 0.0001 mg/L        | 0.0007 mg/L    | 0.001 mg/L           | ---                  | 0.001 mg/L           | 0.0002 mg/L | 0.0003 mg/L           | 0.001 mg/L   | 0.001 mg/L | 0.0004 mg/L            | 0.001 mg/L   | 0.001 mg/L | 0.03 mg/L   |                     | ---                 |
| Post Carbon                                                                                     | 03/25/15    | <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           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 06/30/15    | <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           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 07/27/15    | <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           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 09/23/15    | <0.000202             | <0.000202      | <0.000202  | <0.000202          | <0.000202      | <0.000202            | <0.000202            | <0.000202            | <0.000202   | <0.000202             | <0.000202    | <0.000202  | <0.000202              | <0.000202    | <0.000202  | <0.000202   | <0.000202           | <0.000202           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 09/29/15    | <0.000195             | <0.000195      | <0.000195  | <0.000195          | <0.000195      | <0.000195            | <0.000195            | <0.000195            | <0.000195   | <0.000195             | <0.000195    | <0.000195  | <0.000195              | <0.000195    | <0.000195  | <0.000195   | <0.000195           | <0.000195           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 10/28/15    | <0.000196             | <0.000196      | <0.000196  | <0.000196          | <0.000196      | <0.000196            | <0.000196            | <0.000196            | <0.000196   | <0.000196             | <0.000196    | <0.000196  | <0.000196              | <0.000196    | <0.000196  | <0.000196   | <0.000196           | <0.000196           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 11/19/15    | <0.000195             | <0.000195      | <0.000195  | <0.000195          | <0.000195      | <0.000195            | <0.000195            | <0.000195            | <0.000195   | <0.000195             | <0.000195    | <0.000195  | <0.000195              | <0.000195    | <0.000195  | <0.000195   | <0.000195           | <0.000195           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |

TABLE 6

## 2015 WQCC METALS CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04 TOWNSEND  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All water concentrations are reported in mg/L*

| SAMPLE LOCATION                                                                                 | SAMPLE DATE | Total Aluminum | Total Boron | Total Cobalt | Total Copper | Total Iron | Total Manganese | Total Molybdenum | Total Nickel | Total Arsenic | Total Barium | Total Cadmium | Total Chromium | Total Mercury | Total Lead | Total Selenium | Total Silver | Total Zinc |
|-------------------------------------------------------------------------------------------------|-------------|----------------|-------------|--------------|--------------|------------|-----------------|------------------|--------------|---------------|--------------|---------------|----------------|---------------|------------|----------------|--------------|------------|
|                                                                                                 |             | 5.0 mg/L       | 0.75 mg/L   | 0.05 mg/L    | 1.0 mg/L     | 1.0 mg/L   | 0.2 mg/L        | 1.0 mg/L         | 0.2 mg/L     | 0.1 mg/L      | 1.0 mg/L     | 0.01 mg/L     | 0.05 mg/L      | 0.002 mg/L    | 0.05 mg/L  | 0.05 mg/L      | 0.05 mg/L    | 10 mg/L    |
| Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A. |             |                |             |              |              |            |                 |                  |              |               |              |               |                |               |            |                |              |            |
| Post Carbon                                                                                     | 10/28/15    | <0.0500        | 0.108       | <0.0100      | 0.00500      | 0.203      | 0.0560          | <0.0500          | <0.0100      | <0.0100       | 0.239        | <0.00500      | <0.0100        | <0.000200     | <0.0150    | <0.0200        | <0.00500     | 0.0140     |
|                                                                                                 |             |                |             |              |              |            |                 |                  |              |               |              |               |                |               |            |                |              |            |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 1      | 03/02/00      | 3974.18                 | -                | 53.01          | 0.00          | 3921.17                         |
| MW - 1      | 04/25/00      | 3974.18                 | -                | 53.02          | 0.00          | 3921.16                         |
| MW - 1      | 09/06/00      | 3974.18                 | -                | 53.07          | 0.00          | 3921.11                         |
| MW - 1      | 11/28/00      | 3974.18                 | -                | 53.08          | 0.00          | 3921.10                         |
| MW - 1      | 02/21/01      | 3974.18                 | -                | 52.98          | 0.00          | 3921.20                         |
| MW - 1      | 05/31/01      | 3974.18                 | -                | 52.94          | 0.00          | 3921.24                         |
| MW - 1      | 08/23/01      | 3974.18                 | -                | 52.95          | 0.00          | 3921.23                         |
| MW - 1      | 11/21/01      | 3974.18                 | -                | 52.99          | 0.00          | 3921.19                         |
| MW - 1      | 02/13/02      | 3974.18                 | -                | 53.04          | 0.00          | 3921.14                         |
| MW - 1      | 06/12/02      | 3974.18                 | -                | 52.99          | 0.00          | 3921.19                         |
| MW - 1      | 08/26/02      | 3974.18                 | -                | 53.02          | 0.00          | 3921.16                         |
| MW - 1      | 11/21/02      | 3974.18                 | -                | 53.07          | 0.00          | 3921.11                         |
| MW - 1      | 02/05/03      | 3974.18                 | -                | 53.00          | 0.00          | 3921.18                         |
| MW - 1      | 05/07/03      | 3974.18                 | -                | 52.96          | 0.00          | 3921.22                         |
| MW - 1      | 08/18/03      | 3974.18                 | -                | 53.01          | 0.00          | 3921.17                         |
| MW - 1      | 12/01/03      | 3974.18                 | -                | 53.07          | 0.00          | 3921.11                         |
| MW - 1      | 02/05/04      | 3974.18                 | -                | 53.07          | 0.00          | 3921.11                         |
| MW - 1      | 05/05/04      | 3974.18                 | -                | 53.50          | 0.00          | 3920.68                         |
| MW - 1      | 09/01/04      | 3974.18                 | -                | 53.11          | 0.00          | 3921.07                         |
| MW - 1      | 12/15/04      | 3974.18                 | -                | 53.09          | 0.00          | 3921.09                         |
| MW - 1      | 03/22/05      | 3974.18                 | -                | 52.80          | 0.00          | 3921.38                         |
| MW - 1      | 06/22/05      | 3974.18                 | -                | 52.75          | 0.00          | 3921.43                         |
| MW - 1      | 09/14/05      | PLUGGED & ABANDONED     |                  |                |               |                                 |
|             |               |                         |                  |                |               |                                 |
| MW - 2      | 03/02/00      | 3974.62                 | 52.49            | 55.38          | 2.89          | 3921.70                         |
| MW - 2      | 04/25/00      | 3974.62                 | 52.59            | 55.42          | 2.83          | 3921.61                         |
| MW - 2      | 09/05/00      | 3974.62                 | 52.58            | 55.71          | 3.13          | 3921.57                         |
| MW - 2      | 12/01/00      | 3974.62                 | 52.75            | 55.23          | 2.48          | 3921.50                         |
| MW - 2      | 02/21/01      | 3974.62                 | 52.52            | 55.75          | 3.23          | 3921.62                         |
| MW - 2      | 05/31/01      | 3974.62                 | 52.77            | 54.75          | 1.98          | 3921.55                         |
| MW - 2      | 08/23/01      | 3974.62                 | 52.40            | 55.83          | 3.43          | 3921.71                         |
| MW - 2      | 11/21/01      | 3974.62                 | 53.02            | 54.21          | 1.19          | 3921.42                         |
| MW - 2      | 02/13/02      | 3974.62                 | 52.48            | 56.14          | 3.66          | 3921.59                         |
| MW - 2      | 06/12/02      | 3974.62                 | 52.44            | 56.11          | 3.67          | 3921.63                         |
| MW - 2      | 11/08/02      | 3974.62                 | 52.59            | 55.99          | 3.40          | 3921.52                         |
| MW - 2      | 11/21/02      | 3974.62                 | 53.13            | 53.54          | 0.41          | 3921.43                         |
| MW - 2      | 12/27/02      | 3974.62                 | 52.64            | 55.65          | 3.01          | 3921.53                         |
| MW - 2      | 01/06/03      | 3974.62                 | 52.80            | 54.81          | 2.01          | 3921.52                         |
| MW - 2      | 01/08/03      | 3974.62                 | 52.95            | 54.14          | 1.19          | 3921.49                         |
| MW - 2      | 01/10/03      | 3974.62                 | 53.15            | 53.32          | 0.17          | 3921.44                         |
| MW - 2      | 01/13/03      | 3974.62                 | 53.14            | 53.32          | 0.18          | 3921.45                         |
| MW - 2      | 02/05/03      | 3974.62                 | 52.70            | 55.28          | 2.58          | 3921.53                         |
| MW - 2      | 02/26/03      | 3974.62                 | 52.57            | 55.74          | 3.17          | 3921.57                         |
| MW - 2      | 03/04/03      | 3974.62                 | 52.58            | 55.75          | 3.17          | 3921.56                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER  | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|-----------------|---------------|---------------------------------|
| MW - 2      | 03/12/03      | 3974.62                 | 52.60            | 55.79           | 3.19          | 3921.54                         |
| MW - 2      | 03/18/03      | 3974.62                 | 52.61            | 55.71           | 3.10          | 3921.55                         |
| MW - 2      | 03/25/03      | 3974.62                 | 52.60            | 55.77           | 3.17          | 3921.54                         |
| MW - 2      | 03/31/03      | 3974.62                 | 52.59            | 55.71           | 3.12          | 3921.56                         |
| MW - 2      | 04/09/03      | 3974.62                 | 52.60            | 53.13           | 0.53          | 3921.94                         |
| MW - 2      | 04/14/03      | 3974.62                 | 52.64            | 52.89           | 0.25          | 3921.94                         |
| MW - 2      | 05/07/03      | 3974.62                 | 52.52            | 55.73           | 3.21          | 3921.62                         |
| MW - 2      | 05/08/03      | 3974.62                 | 52.60            | 55.81           | 3.21          | 3921.54                         |
| MW - 2      | 05/13/03      | 3974.62                 | 52.61            | 55.79           | 3.18          | 3921.53                         |
| MW - 2      | 05/21/03      | 3974.62                 | 52.62            | 55.83           | 3.21          | 3921.52                         |
| MW - 2      | 05/27/03      | 3974.62                 | 52.57            | 55.71           | 3.14          | 3921.58                         |
| MW - 2      | 05/28/03      | 3974.62                 | 52.63            | 55.83           | 3.20          | 3921.51                         |
| MW - 2      | 06/03/03      | 3974.62                 | 52.76            | 55.81           | 3.05          | 3921.40                         |
| MW - 2      | 06/09/03      | 3974.62                 | 52.62            | 55.79           | 3.17          | 3921.52                         |
| MW - 2      | 07/01/03      | 3974.62                 | 52.80            | 53.81           | 1.01          | 3921.67                         |
| MW - 2      | 07/08/03      | 3974.62                 | 52.69            | 55.92           | 3.23          | 3921.45                         |
| MW - 2      | 07/29/03      | 3974.62                 | 52.57            | 55.72           | 3.15          | 3921.58                         |
| MW - 2      | 08/04/03      | 3974.62                 | 52.76            | 55.91           | 3.15          | 3921.39                         |
| MW - 2      | 08/18/03      | 3974.62                 | 52.85            | 54.18           | 1.33          | 3921.57                         |
| MW - 2      | 08/25/03      | 3974.62                 | 52.86            | 56.04           | 3.18          | 3921.28                         |
| MW - 2      | 10/01/03      | 3974.62                 | 52.76            | 52.99           | 0.23          | 3921.83                         |
| MW - 2      | 10/06/03      | 3974.62                 | 52.63            | 55.69           | 3.06          | 3921.53                         |
| MW - 2      | 10/08/03      | 3974.62                 | 52.95            | 56.07           | 3.12          | 3921.20                         |
| MW - 2      | 10/15/03      | 3974.62                 | 52.93            | 56.08           | 3.15          | 3921.22                         |
| MW - 2      | 11/12/03      | 3974.62                 | 53.04            | 54.18           | 1.14          | 3921.41                         |
| MW - 2      | 11/19/03      | 3974.62                 | 53.03            | 56.18           | 3.15          | 3921.12                         |
| MW - 2      | 12/01/03      | 3974.62                 | 53.08            | 56.21           | 3.13          | 3921.07                         |
| MW - 2      | 12/10/03      | 3974.62                 | 52.74            | 55.82           | 3.08          | 3921.42                         |
| MW - 2      | 02/05/04      | 3974.62                 | 53.09            | 56.18           | 3.09          | 3921.07                         |
| MW - 2      | 02/17/04      | 3974.62                 | 52.78            | 53.51           | 0.73          | 3921.73                         |
| MW - 2      | 02/25/04      | 3974.62                 | 53.06            | 56.03           | 2.97          | 3921.11                         |
| MW - 2      | 03/09/04      | 3974.62                 | 52.83            | 55.87           | 3.04          | 3921.33                         |
| MW - 2      | 03/16/04      | 3974.62                 | 52.85            | 55.80           | 2.95          | 3921.33                         |
| MW - 2      | 03/22/04      | 3974.62                 | 53.32            | 54.00           | 0.68          | 3921.20                         |
| MW - 2      | 04/07/04      | 3974.62                 | 52.88            | 53.14           | 0.26          | 3921.70                         |
| MW - 2      | 04/12/04      | 3974.62                 | 53.21            | 56.03           | 2.82          | 3920.99                         |
| MW - 2      | 04/19/04      | 3974.62                 | 52.88            | 53.98           | 1.10          | 3921.58                         |
| MW - 2      | 05/05/04      | 3974.62                 | 52.88            | 55.83           | 2.95          | 3921.30                         |
| MW - 2      | 05/11/04      | 3974.62                 | 52.98            | 55.95           | 2.97          | 3921.19                         |
| MW - 2      | 06/07/04      | 3974.62                 | 52.63            | 55.49           | 2.86          | 3921.56                         |
| MW - 2      | 06/15/04      | 3974.62                 | -                | 52.57           | 0.00          | 3922.05                         |
| MW - 2      | 06/20/04      | 3974.62                 | 52.57            | WELL OBSTRUCTED |               |                                 |
| MW - 2      | 06/21/04      | 3974.62                 | 52.58            | WELL OBSTRUCTED |               |                                 |
| MW - 2      | 06/28/04      | 3974.62                 | 52.58            | WELL OBSTRUCTED |               |                                 |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER  | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|-----------------|---------------|---------------------------------|
| MW - 2      | 07/08/04      | 3974.62                 | 52.58            | WELL OBSTRUCTED |               |                                 |
| MW - 2      | 07/12/04      | 3974.62                 | 52.59            | WELL OBSTRUCTED |               |                                 |
| MW - 2      | 08/12/04      | 3974.62                 | 52.59            | WELL OBSTRUCTED |               |                                 |
| MW - 2      | 08/17/04      | 3974.62                 | 52.63            | WELL OBSTRUCTED |               |                                 |
| MW - 2      | 08/26/04      | 3974.62                 | 52.62            | WELL OBSTRUCTED |               |                                 |
| MW - 2      | 09/01/04      | 3974.62                 | 53.86            | 54.75           | 0.89          | 3920.63                         |
| MW - 2      | 09/03/04      | 3974.62                 | 53.86            | 54.75           | 0.89          | 3920.63                         |
| MW - 2      | 09/08/04      | 3974.62                 | 53.92            | 54.75           | 0.83          | 3920.58                         |
| MW - 2      | 09/14/04      | 3974.62                 | 52.90            | 54.75           | 1.85          | 3921.44                         |
| MW - 2      | 09/22/04      | 3974.62                 | 53.01            | 54.75           | 1.74          | 3921.35                         |
| MW - 2      | 10/01/04      | 3974.62                 | 52.88            | 54.90           | 2.02          | 3921.44                         |
| MW - 2      | 10/08/04      | 3974.62                 | 52.94            | 55.10           | 2.16          | 3921.36                         |
| MW - 2      | 10/15/04      | 3974.62                 | 53.10            | 55.10           | 2.00          | 3921.22                         |
| MW - 2      | 10/22/04      | 3974.62                 | 52.73            | 55.15           | 2.42          | 3921.53                         |
| MW - 2      | 11/12/04      | 3974.62                 | 52.68            | 55.65           | 2.97          | 3921.49                         |
| MW - 2      | 11/26/04      | 3974.62                 | 52.70            | 54.60           | 1.90          | 3921.64                         |
| MW - 2      | 12/02/04      | 3974.62                 | 52.72            | 55.50           | 2.78          | 3921.48                         |
| MW - 2      | 12/06/04      | 3974.62                 | 52.99            | 55.31           | 2.32          | 3921.28                         |
| MW - 2      | 12/13/04      | 3974.62                 | 52.80            | 54.70           | 1.90          | 3921.54                         |
| MW - 2      | 12/15/04      | 3974.62                 | 52.80            | 54.70           | 1.90          | 3921.54                         |
| MW - 2      | 12/27/04      | 3974.62                 | 52.80            | 55.20           | 2.40          | 3921.46                         |
| MW - 2      | 01/10/05      | 3974.62                 | 52.57            | 55.40           | 2.83          | 3921.63                         |
| MW - 2      | 01/18/05      | 3974.62                 | 52.63            | 55.17           | 2.54          | 3921.61                         |
| MW - 2      | 01/18/05      | 3974.62                 | 52.78            | 54.33           | 1.55          | 3921.61                         |
| MW - 2      | 01/25/05      | 3974.62                 | 52.51            | 55.35           | 2.84          | 3921.68                         |
| MW - 2      | 01/27/05      | 3974.62                 | 52.55            | 55.22           | 2.67          | 3921.67                         |
| MW - 2      | 02/01/05      | 3974.62                 | 52.52            | 55.55           | 3.03          | 3921.65                         |
| MW - 2      | 02/07/05      | 3974.62                 | 52.50            | 55.34           | 2.84          | 3921.69                         |
| MW - 2      | 02/11/05      | 3974.62                 | 52.50            | 55.23           | 2.73          | 3921.71                         |
| MW - 2      | 02/15/05      | 3974.62                 | 52.49            | 55.25           | 2.76          | 3921.72                         |
| MW - 2      | 02/22/05      | 3974.62                 | 52.46            | 55.44           | 2.98          | 3921.71                         |
| MW - 2      | 02/24/05      | 3974.62                 | 52.43            | 55.50           | 3.07          | 3921.73                         |
| MW - 2      | 03/03/05      | 3974.62                 | 52.43            | 55.41           | 2.98          | 3921.74                         |
| MW - 2      | 03/09/05      | 3974.62                 | 52.43            | 55.35           | 2.92          | 3921.75                         |
| MW - 2      | 03/22/05      | 3974.62                 | 53.03            | 53.13           | 0.10          | 3921.58                         |
| MW - 2      | 03/24/05      | 3974.62                 | 53.03            | 53.13           | 0.10          | 3921.58                         |
| MW - 2      | 03/31/05      | 3974.62                 | 53.05            | 53.12           | 0.07          | 3921.56                         |
| MW - 2      | 06/22/05      | 3974.62                 | 52.86            | 53.38           | 0.52          | 3921.68                         |
| MW - 2      | 07/21/05      | 3974.62                 | 52.73            | 53.24           | 0.51          | 3921.81                         |
| MW - 2      | 08/03/05      | 3974.62                 | 52.45            | 54.54           | 2.09          | 3921.86                         |
| MW - 2      | 08/12/05      | 3974.62                 | 52.42            | 54.58           | 2.16          | 3921.88                         |
| MW - 2      | 08/15/05      | 3974.62                 | 52.48            | 54.40           | 1.92          | 3921.85                         |
| MW - 2      | 08/22/05      | 3974.62                 | 52.41            | 54.50           | 2.09          | 3921.90                         |
| MW - 2      | 08/30/05      | 3974.62                 | 52.40            | 54.64           | 2.24          | 3921.88                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 2         | 09/07/05         | 3974.62                       | 52.38               | 54.62             | 2.24             | 3921.90                               |
| MW - 2         | 09/14/05         | 3974.62                       | 52.32               | 54.63             | 2.31             | 3921.95                               |
| MW - 2         | 09/20/05         | 3974.62                       | 52.39               | 54.48             | 2.09             | 3921.92                               |
| MW - 2         | 09/21/05         | 3974.62                       | 52.36               | 54.61             | 2.25             | 3921.92                               |
| MW - 2         | 09/28/05         | 3974.62                       | 52.38               | 54.60             | 2.22             | 3921.91                               |
| MW - 2         | 10/06/05         | 3974.62                       | 52.32               | 54.85             | 2.53             | 3921.92                               |
| MW - 2         | 10/13/05         | 3974.62                       | 52.32               | 54.85             | 2.53             | 3921.92                               |
| MW - 2         | 10/20/05         | 3974.62                       | 52.32               | 54.84             | 2.52             | 3921.92                               |
| MW - 2         | 10/26/05         | 3974.62                       | 52.33               | 54.83             | 2.50             | 3921.92                               |
| MW - 2         | 11/03/05         | 3974.62                       | 52.28               | 54.80             | 2.52             | 3921.96                               |
| MW - 2         | 11/10/05         | 3974.62                       | 52.29               | 54.79             | 2.50             | 3921.96                               |
| MW - 2         | 11/16/05         | 3974.62                       | 52.31               | 54.79             | 2.48             | 3921.94                               |
| MW - 2         | 11/23/05         | 3974.62                       | 52.33               | 54.75             | 2.42             | 3921.93                               |
| MW - 2         | 11/28/05         | 3974.62                       | 52.27               | 54.83             | 2.56             | 3921.97                               |
| MW - 2         | 12/05/05         | 3974.62                       | 52.30               | 54.72             | 2.42             | 3921.96                               |
| MW - 2         | 12/12/05         | 3974.62                       | 52.29               | 54.70             | 2.41             | 3921.97                               |
| MW - 2         | 12/16/05         | 3974.62                       | 53.01               | 53.84             | 0.83             | 3921.49                               |
| MW - 2         | 12/19/05         | 3974.62                       | 52.35               | 54.76             | 2.41             | 3921.91                               |
| MW - 2         | 12/29/05         | 3974.62                       | 52.26               | 54.82             | 2.56             | 3921.98                               |
| MW - 2         | 01/04/06         | 3974.62                       | 52.30               | 54.80             | 2.50             | 3921.95                               |
| MW - 2         | 01/10/06         | 3974.62                       | 52.29               | 54.80             | 2.51             | 3921.95                               |
| MW - 2         | 01/17/06         | 3974.62                       | 52.29               | 54.78             | 2.49             | 3921.96                               |
| MW - 2         | 01/26/06         | 3974.62                       | 52.26               | 54.78             | 2.52             | 3921.98                               |
| MW - 2         | 01/31/06         | 3974.62                       | 52.28               | 54.74             | 2.46             | 3921.97                               |
| MW - 2         | 02/07/06         | 3974.62                       | 52.27               | 54.73             | 2.46             | 3921.98                               |
| MW - 2         | 02/09/06         | 3974.62                       | 52.34               | 54.57             | 2.23             | 3921.95                               |
| MW - 2         | 02/13/06         | 3974.62                       | 52.28               | 54.60             | 2.32             | 3921.99                               |
| MW - 2         | 02/22/06         | 3974.62                       | 52.27               | 54.73             | 2.46             | 3921.98                               |
| MW - 2         | 02/28/06         | 3974.62                       | 52.29               | 54.70             | 2.41             | 3921.97                               |
| MW - 2         | 03/07/06         | 3974.62                       | 52.27               | 54.68             | 2.41             | 3921.99                               |
| MW - 2         | 03/15/06         | 3974.62                       | 52.24               | 54.70             | 2.46             | 3922.01                               |
| MW - 2         | 03/20/06         | 3974.62                       | 52.22               | 54.64             | 2.42             | 3922.04                               |
| MW - 2         | 03/22/06         | 3974.62                       | 52.60               | 53.40             | 0.80             | 3921.90                               |
| MW - 2         | 03/29/06         | 3974.62                       | 52.24               | 54.57             | 2.33             | 3922.03                               |
| MW - 2         | 04/11/06         | 3974.62                       | 52.21               | 54.59             | 2.38             | 3922.05                               |
| MW - 2         | 04/18/06         | 3974.62                       | 52.22               | 54.60             | 2.38             | 3922.04                               |
| MW - 2         | 04/25/06         | 3974.62                       | 52.29               | 54.63             | 2.34             | 3921.98                               |
| MW - 2         | 05/02/06         | 3974.62                       | 52.22               | 53.98             | 1.76             | 3922.14                               |
| MW - 2         | 05/09/06         | 3974.62                       | 52.21               | 54.43             | 2.22             | 3922.08                               |
| MW - 2         | 05/16/06         | 3974.62                       | 52.22               | 54.61             | 2.39             | 3922.04                               |
| MW - 2         | 05/23/06         | 3974.62                       | 52.23               | 54.59             | 2.36             | 3922.04                               |
| MW - 2         | 05/31/06         | 3974.62                       | 52.21               | 54.58             | 2.37             | 3922.05                               |
| MW - 2         | 06/06/06         | 3974.62                       | 52.22               | 54.54             | 2.32             | 3922.05                               |
| MW - 2         | 06/13/06         | 3974.62                       | 52.22               | 54.54             | 2.32             | 3922.05                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 2         | 06/20/06         | 3974.62                       | 52.21               | 54.51             | 2.30             | 3922.07                               |
| MW - 2         | 06/21/06         | 3974.62                       | 52.36               | 53.85             | 1.49             | 3922.04                               |
| MW - 2         | 07/06/06         | 3974.62                       | 52.20               | 54.53             | 2.33             | 3922.07                               |
| MW - 2         | 07/12/06         | 3974.62                       | 52.25               | 54.31             | 2.06             | 3922.06                               |
| MW - 2         | 07/20/06         | 3974.62                       | 52.29               | 53.18             | 0.89             | 3922.20                               |
| MW - 2         | 07/25/06         | 3974.62                       | 52.25               | 54.28             | 2.03             | 3922.07                               |
| MW - 2         | 08/01/06         | 3974.62                       | 52.26               | 54.31             | 2.05             | 3922.05                               |
| MW - 2         | 08/16/06         | 3974.62                       | 52.26               | 54.32             | 2.06             | 3922.05                               |
| MW - 2         | 08/23/06         | 3974.62                       | 52.27               | 53.26             | 0.99             | 3922.20                               |
| MW - 2         | 08/28/06         | 3974.62                       | 52.28               | 54.24             | 1.96             | 3922.05                               |
| MW - 2         | 09/12/06         | 3974.62                       | 52.25               | 54.27             | 2.02             | 3922.07                               |
| MW - 2         | 09/22/06         | 3974.62                       | 52.27               | 54.27             | 2.00             | 3922.05                               |
| MW - 2         | 09/27/06         | 3974.62                       | 52.27               | 54.20             | 1.93             | 3922.06                               |
| MW - 2         | 10/06/06         | 3974.62                       | 52.25               | 54.29             | 2.04             | 3922.06                               |
| MW - 2         | 10/10/06         | 3974.62                       | 52.69               | 54.19             | 1.50             | 3921.71                               |
| MW - 2         | 10/16/06         | 3974.62                       | 52.28               | 54.25             | 1.97             | 3922.04                               |
| MW - 2         | 10/26/06         | 3974.62                       | 52.27               | 54.25             | 1.98             | 3922.05                               |
| MW - 2         | 11/03/06         | 3974.62                       | 52.27               | 54.24             | 1.97             | 3922.05                               |
| MW - 2         | 11/09/06         | 3974.62                       | 52.28               | 54.14             | 1.86             | 3922.06                               |
| MW - 2         | 11/16/06         | 3974.62                       | 52.26               | 54.18             | 1.92             | 3922.07                               |
| MW - 2         | 11/22/06         | 3974.62                       | 52.25               | 54.18             | 1.93             | 3922.08                               |
| MW - 2         | 12/04/06         | 3974.62                       | 52.25               | 54.15             | 1.90             | 3922.09                               |
| MW - 2         | 12/08/06         | 3974.62                       | 52.25               | 54.19             | 1.94             | 3922.08                               |
| MW - 2         | 12/15/06         | 3974.62                       | 52.16               | 54.37             | 2.21             | 3922.13                               |
| MW - 2         | 01/05/07         | 3974.62                       | 52.20               | 54.43             | 2.23             | 3922.09                               |
| MW - 2         | 01/12/07         | 3974.62                       | 52.19               | 54.37             | 2.18             | 3922.10                               |
| MW - 2         | 01/18/07         | 3974.62                       | 52.17               | 54.37             | 2.20             | 3922.12                               |
| MW - 2         | 01/24/07         | 3974.62                       | 52.20               | 54.35             | 2.15             | 3922.10                               |
| MW - 2         | 01/29/07         | 3974.62                       | 52.17               | 54.28             | 2.11             | 3922.13                               |
| MW - 2         | 02/09/07         | 3974.62                       | 52.17               | 54.31             | 2.14             | 3922.13                               |
| MW - 2         | 02/16/07         | 3974.62                       | 52.18               | 54.34             | 2.16             | 3922.12                               |
| MW - 2         | 02/23/07         | 3974.62                       | 52.15               | 54.25             | 2.10             | 3922.16                               |
| MW - 2         | 03/02/07         | 3974.62                       | 52.16               | 54.30             | 2.14             | 3922.14                               |
| MW - 2         | 03/14/07         | 3974.62                       | 52.20               | 53.88             | 1.68             | 3922.17                               |
| MW - 2         | 03/26/07         | 3974.62                       | 52.19               | 54.13             | 1.94             | 3922.14                               |
| MW - 2         | 04/03/07         | 3974.62                       | 52.15               | 54.22             | 2.07             | 3922.16                               |
| MW - 2         | 04/09/07         | 3974.62                       | 52.14               | 54.20             | 2.06             | 3922.17                               |
| MW - 2         | 04/26/07         | 3974.62                       | 52.15               | 54.21             | 2.06             | 3922.16                               |
| MW - 2         | 04/30/07         | 3974.62                       | 52.16               | 54.13             | 1.97             | 3922.16                               |
| MW - 2         | 05/11/07         | 3974.62                       | 52.15               | 54.16             | 2.01             | 3922.17                               |
| MW - 2         | 05/16/07         | 3974.62                       | 52.16               | 54.13             | 1.97             | 3922.16                               |
| MW - 2         | 05/22/07         | 3974.62                       | 52.15               | 54.12             | 1.97             | 3922.17                               |
| MW - 2         | 05/29/07         | 3974.62                       | 52.13               | 54.12             | 1.99             | 3922.19                               |
| MW - 2         | 06/01/07         | 3974.62                       | 52.12               | 54.14             | 2.02             | 3922.20                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 2         | 06/08/07         | 3974.62                       | 52.14               | 54.12             | 1.98             | 3922.18                               |
| MW - 2         | 06/11/07         | 3974.62                       | 52.16               | 54.00             | 1.84             | 3922.18                               |
| MW - 2         | 06/20/07         | 3974.62                       | 52.15               | 54.10             | 1.95             | 3922.18                               |
| MW - 2         | 07/10/07         | 3974.62                       | 52.13               | 54.08             | 1.95             | 3922.20                               |
| MW - 2         | 07/20/07         | 3974.62                       | 52.14               | 54.06             | 1.92             | 3922.19                               |
| MW - 2         | 07/25/07         | 3974.62                       | 52.14               | 54.02             | 1.88             | 3922.20                               |
| MW - 2         | 08/01/07         | 3974.62                       | 52.11               | 54.01             | 1.90             | 3922.23                               |
| MW - 2         | 08/10/07         | 3974.62                       | 52.15               | 54.02             | 1.87             | 3922.19                               |
| MW - 2         | 08/15/07         | 3974.62                       | 52.14               | 54.00             | 1.86             | 3922.20                               |
| MW - 2         | 08/30/07         | 3974.62                       | 52.15               | 54.00             | 1.85             | 3922.19                               |
| MW - 2         | 08/31/07         | 3974.62                       | 52.15               | 54.00             | 1.85             | 3922.19                               |
| MW - 2         | 09/10/07         | 3974.62                       | 52.14               | 53.98             | 1.84             | 3922.20                               |
| MW - 2         | 09/19/07         | 3974.62                       | 52.12               | 53.98             | 1.86             | 3922.22                               |
| MW - 2         | 09/27/07         | 3974.62                       | 52.11               | 53.94             | 1.83             | 3922.24                               |
| MW - 2         | 10/01/07         | 3974.62                       | 52.14               | 53.88             | 1.74             | 3922.22                               |
| MW - 2         | 10/19/07         | 3974.62                       | 52.10               | 53.96             | 1.86             | 3922.24                               |
| MW - 2         | 10/26/07         | 3974.62                       | 52.10               | 53.91             | 1.81             | 3922.25                               |
| MW - 2         | 11/12/07         | 3974.62                       | 52.12               | 53.89             | 1.77             | 3922.23                               |
| MW - 2         | 11/16/07         | 3974.62                       | 52.10               | 53.88             | 1.78             | 3922.25                               |
| MW - 2         | 11/29/07         | 3974.62                       | 52.10               | 53.89             | 1.79             | 3922.25                               |
| MW - 2         | 12/13/07         | 3974.62                       | 52.10               | 53.86             | 1.76             | 3922.26                               |
| MW - 2         | 01/10/08         | 3974.62                       | 52.08               | 53.79             | 1.71             | 3922.28                               |
| MW - 2         | 01/17/08         | 3974.62                       | 52.10               | 53.79             | 1.69             | 3922.27                               |
| MW - 2         | 01/22/08         | 3974.62                       | 52.08               | 53.74             | 1.66             | 3922.29                               |
| MW - 2         | 2/6/08 #1        | 3974.62                       | 52.10               | 53.71             | 1.61             | 3922.28                               |
| MW - 2         | 02/06/08 #2      | 3974.62                       | 52.32               | 52.79             | 0.47             | 3922.23                               |
| MW - 2         | 2/12/08#1        | 3974.62                       | 52.11               | 53.72             | 1.61             | 3922.27                               |
| MW - 2         | 2/12/08#2        | 3974.62                       | 52.34               | 52.68             | 0.34             | 3922.23                               |
| MW - 2         | 2/20/08 #1       | 3974.62                       | 52.11               | 53.70             | 1.59             | 3922.27                               |
| MW - 2         | 2/20/08 #2       | 3974.62                       | 52.30               | 52.78             | 0.48             | 3922.25                               |
| MW - 2         | 2/27/08 #1       | 3974.62                       | 52.11               | 53.67             | 1.56             | 3922.28                               |
| MW - 2         | 2/27/08 #2       | 3974.62                       | 52.28               | 52.87             | 0.59             | 3922.25                               |
| MW - 2         | 03/07/08         | 3974.62                       | 52.10               | 53.66             | 1.56             | 3922.29                               |
| MW - 2         | 3/12/2008 #1     | 3974.62                       | 52.10               | 53.66             | 1.56             | 3922.29                               |
| MW - 2         | 3/12/2008 #2     | 3974.62                       | 52.29               | 52.30             | 0.01             | 3922.33                               |
| MW - 2         | 3/20/08 #1       | 3974.62                       | 52.10               | 53.65             | 1.55             | 3922.29                               |
| MW - 2         | 3/20/08#2        | 3974.62                       | 52.29               | 52.76             | 0.47             | 3922.26                               |
| MW - 2         | 3/23/08 #1       | 3974.62                       | 52.09               | 53.64             | 1.55             | 3922.30                               |
| MW - 2         | 3/23/08 #2       | 3974.62                       | 52.30               | 52.31             | 0.01             | 3922.32                               |
| MW - 2         | 4/2/08 #1        | 3974.62                       | 52.09               | 53.60             | 1.51             | 3922.30                               |
| MW - 2         | 4/2/08 #2        | 3974.62                       | 52.23               | 52.89             | 0.66             | 3922.29                               |
| MW - 2         | 4/9/08 #1        | 3974.62                       | 52.09               | 53.59             | 1.50             | 3922.31                               |
| MW - 2         | 4/9/08 #2        | 3974.62                       | 52.23               | 52.92             | 0.69             | 3922.29                               |
| MW - 2         | 04/16/08         | 3974.62                       | 52.06               | 53.57             | 1.51             | 3922.33                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 2      | 04/23/08      | 3974.62                 | 52.08            | 53.57          | 1.49          | 3922.32                         |
| MW - 2      | 04/30/08      | 3974.62                 | 52.08            | 53.55          | 1.47          | 3922.32                         |
| MW - 2      | 05/29/08      | 3974.62                 | 52.07            | 53.50          | 1.43          | 3922.34                         |
| MW - 2      | 06/02/08      | 3974.62                 | 52.07            | 53.45          | 1.38          | 3922.34                         |
| MW - 2      | 06/03/08      | 3974.62                 | 52.07            | 53.45          | 1.38          | 3922.34                         |
| MW - 2      | 06/11/08      | 3974.62                 | 52.07            | 53.52          | 1.45          | 3922.33                         |
| MW - 2      | 06/18/08      | 3974.62                 | 52.07            | 53.52          | 1.45          | 3922.33                         |
| MW - 2      | 06/23/08      | 3974.62                 | 52.08            | 53.48          | 1.40          | 3922.33                         |
| MW - 2      | 07/01/08      | 3974.62                 | 52.09            | 53.51          | 1.42          | 3922.32                         |
| MW - 2      | 07/09/08      | 3974.62                 | 52.09            | 53.51          | 1.42          | 3922.32                         |
| MW - 2      | 07/15/08      | 3974.62                 | 52.08            | 53.45          | 1.37          | 3922.33                         |
| MW - 2      | 07/22/08      | 3974.62                 | 52.08            | 53.48          | 1.40          | 3922.33                         |
| MW - 2      | 08/02/08      | 3974.62                 | 52.08            | 53.38          | 1.30          | 3922.35                         |
| MW - 2      | 08/13/08      | 3974.62                 | 52.08            | 53.46          | 1.38          | 3922.33                         |
| MW - 2      | 09/03/08      | 3974.62                 | 52.04            | 53.44          | 1.40          | 3922.37                         |
| MW - 2      | 09/11/08      | 3974.62                 | 52.07            | 53.45          | 1.38          | 3922.34                         |
| MW - 2      | 09/19/08      | 3974.62                 | 52.05            | 53.41          | 1.36          | 3922.37                         |
| MW - 2      | 09/26/08      | 3974.62                 | 52.06            | 53.41          | 1.35          | 3922.36                         |
| MW - 2      | 10/10/08      | 3974.62                 | 52.06            | 53.41          | 1.35          | 3922.36                         |
| MW - 2      | 10/17/08      | 3974.62                 | 52.08            | 53.37          | 1.29          | 3922.35                         |
| MW - 2      | 10/21/08      | 3974.62                 | 52.17            | 53.35          | 1.18          | 3922.27                         |
| MW - 2      | 10/30/08      | 3974.62                 | 52.05            | 53.36          | 1.31          | 3922.37                         |
| MW - 2      | 11/04/08      | 3974.62                 | 52.08            | 53.36          | 1.28          | 3922.35                         |
| MW - 2      | 11/18/08      | 3974.62                 | 52.08            | 53.36          | 1.28          | 3922.35                         |
| MW - 2      | 11/25/08      | 3974.62                 | 52.08            | 53.35          | 1.27          | 3922.35                         |
| MW - 2      | 11/25/08      | 3974.62                 | 52.71            | 52.72          | 0.01          | 3921.91                         |
| MW - 2      | 12/10/08      | 3974.62                 | 52.09            | 53.44          | 1.35          | 3922.33                         |
| MW - 2      | 12/18/08      | 3974.62                 | 52.05            | 53.34          | 1.29          | 3922.38                         |
| MW - 2      | 01/06/09      | 3974.62                 | 52.05            | 53.39          | 1.34          | 3922.37                         |
| MW - 2      | 01/14/09      | 3974.62                 | 52.19            | 53.35          | 1.16          | 3922.26                         |
| MW - 2      | 01/21/09      | 3974.62                 | 52.25            | 53.11          | 0.86          | 3922.24                         |
| MW - 2      | 01/22/09      | 3974.62                 | 52.03            | 53.33          | 1.30          | 3922.40                         |
| MW - 2      | 01/30/09      | 3974.62                 | 52.05            | 53.30          | 1.25          | 3922.38                         |
| MW - 2      | 02/03/09      | 3974.62                 | 52.06            | 53.27          | 1.21          | 3922.38                         |
| MW - 2      | 02/12/09      | 3974.62                 | 52.06            | 53.28          | 1.22          | 3922.38                         |
| MW - 2      | 02/19/09      | 3974.62                 | 52.05            | 53.26          | 1.21          | 3922.39                         |
| MW - 2      | 03/04/09      | 3974.62                 | 52.10            | 53.23          | 1.13          | 3922.35                         |
| MW - 2      | 03/06/09      | 3974.62                 | 52.05            | 53.26          | 1.21          | 3922.39                         |
| MW - 2      | 03/11/09      | 3974.62                 | 52.08            | 53.24          | 1.16          | 3922.37                         |
| MW - 2      | 03/16/09      | 3974.62                 | 52.13            | 53.25          | 1.12          | 3922.32                         |
| MW - 2      | 03/19/09      | 3974.62                 | 52.06            | 53.25          | 1.19          | 3922.38                         |
| MW - 2      | 03/24/09      | 3974.62                 | 52.03            | 53.19          | 1.16          | 3922.42                         |
| MW - 2      | 04/03/09      | 3974.62                 | 52.05            | 53.11          | 1.06          | 3922.41                         |
| MW - 2      | 04/15/09      | 3974.62                 | 52.06            | 53.12          | 1.06          | 3922.40                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 2         | 04/17/09         | 3974.62                       | 52.09               | 52.94             | 0.85             | 3922.40                               |
| MW - 2         | 04/22/09         | 3974.62                       | 52.07               | 53.10             | 1.03             | 3922.40                               |
| MW - 2         | 04/29/09         | 3974.62                       | 52.03               | 53.15             | 1.12             | 3922.42                               |
| MW - 2         | 05/20/09         | 3974.62                       | 52.05               | 53.11             | 1.06             | 3922.41                               |
| MW - 2         | 05/20/09         | 3974.62                       | 52.05               | 53.11             | 1.06             | 3922.41                               |
| MW - 2         | 06/09/09         | 3974.62                       | 52.05               | 53.11             | 1.06             | 3922.41                               |
| MW - 2         | 06/17/09         | 3974.62                       | 52.06               | 53.14             | 1.08             | 3922.40                               |
| MW - 2         | 06/23/09         | 3974.62                       | 52.07               | 53.08             | 1.01             | 3922.40                               |
| MW - 2         | 07/01/09         | 3974.62                       | 52.05               | 53.10             | 1.05             | 3922.41                               |
| MW - 2         | 07/08/09         | 3974.62                       | 52.05               | 53.07             | 1.02             | 3922.42                               |
| MW - 2         | 07/15/09         | 3974.62                       | 52.06               | 53.06             | 1.00             | 3922.41                               |
| MW - 2         | 07/17/09         | 3974.62                       | 52.10               | 53.00             | 0.90             | 3922.39                               |
| MW - 2         | 07/23/09         | 3974.62                       | 52.06               | 53.09             | 1.03             | 3922.41                               |
| MW - 2         | 07/24/09         | 3974.62                       | 52.09               | 52.89             | 0.80             | 3922.41                               |
| MW - 2         | 07/30/09         | 3974.62                       | 52.06               | 53.05             | 0.99             | 3922.41                               |
| MW - 2         | 08/04/09         | 3974.62                       | 52.06               | 53.02             | 0.96             | 3922.42                               |
| MW - 2         | 08/12/09         | 3974.62                       | 52.08               | 53.06             | 0.98             | 3922.39                               |
| MW - 2         | 08/20/09         | 3974.62                       | 52.06               | 53.08             | 1.02             | 3922.41                               |
| MW - 2         | 08/26/09         | 3974.62                       | 52.55               | 53.08             | 0.53             | 3921.99                               |
| MW - 2         | 09/02/09         | 3974.62                       | 52.05               | 53.07             | 1.02             | 3922.42                               |
| MW - 2         | 09/09/09         | 3974.62                       | 52.06               | 53.06             | 1.00             | 3922.41                               |
| MW - 2         | 09/14/09         | 3974.62                       | 52.05               | 53.08             | 1.03             | 3922.42                               |
| MW - 2         | 09/21/09         | 3974.62                       | 52.06               | 52.08             | 0.02             | 3922.56                               |
| MW - 2         | 10/01/09         | 3974.62                       | 52.08               | 53.08             | 1.00             | 3922.39                               |
| MW - 2         | 10/08/09         | 3974.62                       | 52.08               | 53.09             | 1.01             | 3922.39                               |
| MW - 2         | 10/14/09         | 3974.62                       | 52.08               | 53.06             | 0.98             | 3922.39                               |
| MW - 2         | 10/21/09         | 3974.62                       | 52.04               | 53.07             | 1.03             | 3922.43                               |
| MW - 2         | 10/28/09         | 3974.62                       | 52.03               | 53.08             | 1.05             | 3922.43                               |
| MW - 2         | 11/04/09         | 3974.62                       | 52.05               | 53.00             | 0.95             | 3922.43                               |
| MW - 2         | 11/11/09         | 3974.62                       | 52.05               | 52.98             | 0.93             | 3922.43                               |
| MW - 2         | 11/18/09         | 3974.62                       | 52.05               | 53.02             | 0.97             | 3922.42                               |
| MW - 2         | 11/25/09         | 3974.62                       | 52.05               | 53.01             | 0.96             | 3922.43                               |
| MW - 2         | 12/02/09         | 3974.62                       | 52.06               | 53.05             | 0.99             | 3922.41                               |
| MW - 2         | 12/10/09         | 3974.62                       | 52.06               | 53.03             | 0.97             | 3922.41                               |
| MW - 2         | 12/17/09         | 3974.62                       | 52.09               | 53.04             | 0.95             | 3922.39                               |
| MW - 2         | 12/21/09         | 3974.62                       | 52.03               | 52.83             | 0.80             | 3922.47                               |
| MW - 2         | 12/30/09         | 3974.62                       | 52.09               | 52.96             | 0.87             | 3922.40                               |
| MW - 2         | 01/07/10         | 3974.62                       | 52.09               | 52.85             | 0.76             | 3922.42                               |
| MW - 2         | 01/18/10         | 3974.62                       | 52.04               | 52.92             | 0.88             | 3922.45                               |
| MW - 2         | 02/02/10         | 3974.62                       | 52.05               | 52.89             | 0.84             | 3922.44                               |
| MW - 2         | 02/11/10         | 3974.62                       | 52.05               | 52.90             | 0.85             | 3922.44                               |
| MW - 2         | 02/18/10         | 3974.62                       | 52.04               | 52.90             | 0.86             | 3922.45                               |
| MW - 2         | 02/25/10         | 3974.62                       | 52.08               | 52.95             | 0.87             | 3922.41                               |
| MW - 2         | 03/02/10         | 3974.62                       | 52.11               | 52.92             | 0.81             | 3922.39                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 2         | 03/04/10         | 3974.62                       | 52.09               | 52.83             | 0.74             | 3922.42                               |
| MW - 2         | 03/10/10         | 3974.62                       | 52.08               | 52.93             | 0.85             | 3922.41                               |
| MW - 2         | 03/12/10         | 3974.62                       | 52.15               | 52.86             | 0.71             | 3922.36                               |
| MW - 2         | 03/15/10         | 3974.62                       | 52.09               | 52.74             | 0.65             | 3922.43                               |
| MW - 2         | 03/18/10         | 3974.62                       | 52.10               | 52.69             | 0.59             | 3922.43                               |
| MW - 2         | 03/22/10         | 3974.62                       | 52.18               | 52.74             | 0.56             | 3922.36                               |
| MW - 2         | 03/24/10         | 3974.62                       | 52.17               | 52.68             | 0.51             | 3922.37                               |
| MW - 2         | 03/30/10         | 3974.62                       | 52.15               | 52.65             | 0.50             | 3922.40                               |
| MW - 2         | 04/07/10         | 3974.62                       | 52.18               | 52.63             | 0.45             | 3922.37                               |
| MW - 2         | 04/12/10         | 3974.62                       | 52.03               | 52.81             | 0.78             | 3922.47                               |
| MW - 2         | 04/16/10         | 3974.62                       | 52.69               | 54.59             | 1.90             | 3921.65                               |
| MW - 2         | 04/20/10         | 3974.62                       | 52.55               | 54.31             | 1.76             | 3921.81                               |
| MW - 2         | 04/27/10         | 3974.62                       | 52.54               | 54.40             | 1.86             | 3921.80                               |
| MW - 2         | 04/30/10         | 3974.62                       | 52.58               | 54.08             | 1.50             | 3921.82                               |
| MW - 2         | 05/12/10         | 3974.62                       | 52.52               | 54.20             | 1.68             | 3921.85                               |
| MW - 2         | 05/14/10         | 3974.62                       | 52.54               | 54.39             | 1.85             | 3921.80                               |
| MW - 2         | 05/17/10         | 3974.62                       | 52.55               | 54.19             | 1.64             | 3921.82                               |
| MW - 2         | 05/20/10         | 3974.62                       | 52.50               | 54.19             | 1.69             | 3921.87                               |
| MW - 2         | 05/25/10         | 3974.62                       | 52.38               | 53.90             | 1.52             | 3922.01                               |
| MW - 2         | 06/01/10         | 3974.62                       | 52.39               | 53.89             | 1.50             | 3922.01                               |
| MW - 2         | 06/09/10         | 3974.62                       | 52.37               | 53.86             | 1.49             | 3922.03                               |
| MW - 2         | 06/16/10         | 3974.62                       | 52.43               | 53.11             | 0.68             | 3922.09                               |
| MW - 2         | 06/28/10         | 3974.62                       | 52.36               | 53.47             | 1.11             | 3922.09                               |
| MW - 2         | 07/09/10         | 3974.62                       | 52.44               | 53.12             | 0.68             | 3922.08                               |
| MW - 2         | 07/14/10         | 3974.62                       | 52.06               | 52.58             | 0.52             | 3922.48                               |
| MW - 2         | 07/23/10         | 3974.62                       | 52.09               | 52.60             | 0.51             | 3922.45                               |
| MW - 2         | 07/29/10         | 3974.62                       | 52.07               | 52.60             | 0.53             | 3922.47                               |
| MW - 2         | 08/05/10         | 3974.62                       | 52.08               | 52.60             | 0.52             | 3922.46                               |
| MW - 2         | 08/12/10         | 3974.62                       | 52.07               | 52.60             | 0.53             | 3922.47                               |
| MW - 2         | 08/16/10         | 3974.62                       | 52.07               | 52.60             | 0.53             | 3922.47                               |
| MW - 2         | 08/18/10         | 3974.62                       | 52.07               | 52.62             | 0.55             | 3922.47                               |
| MW - 2         | 08/26/10         | 3974.62                       | 52.34               | 53.05             | 0.71             | 3922.17                               |
| MW - 2         | 09/02/10         | 3974.62                       | 52.41               | 53.40             | 0.99             | 3922.06                               |
| MW - 2         | 09/09/10         | 3974.62                       | 52.09               | 52.59             | 0.50             | 3922.46                               |
| MW - 2         | 09/30/10         | 3974.62                       | 52.09               | 52.61             | 0.52             | 3922.45                               |
| MW - 2         | 10/07/10         | 3974.62                       | 52.09               | 52.72             | 0.63             | 3922.44                               |
| MW - 2         | 10/14/10         | 3974.62                       | 52.48               | 53.43             | 0.95             | 3922.00                               |
| MW - 2         | 10/21/10         | 3974.62                       | 52.51               | 53.42             | 0.91             | 3921.97                               |
| MW - 2         | 11/04/10         | 3974.62                       | 52.08               | 52.71             | 0.63             | 3922.45                               |
| MW - 2         | 11/10/10         | 3974.62                       | 52.51               | 53.42             | 0.91             | 3921.97                               |
| MW - 2         | 12/01/10         | 3974.62                       | 52.02               | 52.85             | 0.83             | 3922.48                               |
| MW - 2         | 12/08/10         | 3974.62                       | 52.39               | 53.22             | 0.83             | 3922.11                               |
| MW - 2         | 01/26/11         | 3974.62                       | 52.08               | 52.62             | 0.54             | 3922.46                               |
| MW - 2         | 02/28/11         | 3974.62                       | 52.48               | 53.50             | 1.02             | 3921.99                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 2         | 03/04/11         | 3974.62                       | 52.27               | 52.90             | 0.63             | 3922.26                               |
| MW - 2         | 03/09/11         | 3974.62                       | 52.29               | 53.43             | 1.14             | 3922.16                               |
| MW - 2         | 04/28/11         | 3974.62                       | 52.53               | 53.42             | 0.89             | 3921.96                               |
| MW - 2         | 05/04/11         | 3974.62                       | 52.22               | 53.24             | 1.02             | 3922.25                               |
| MW - 2         | 05/11/11         | 3974.62                       | 52.23               | 53.36             | 1.13             | 3922.22                               |
| MW - 2         | 05/12/11         | 3974.62                       | 52.15               | 52.94             | 0.79             | 3922.35                               |
| MW - 2         | 05/18/11         | 3974.62                       | 52.16               | 53.08             | 0.92             | 3922.32                               |
| MW - 2         | 05/23/11         | 3974.62                       | 52.30               | 53.49             | 1.19             | 3922.14                               |
| MW - 2         | 06/08/11         | 3974.62                       | 52.45               | 53.50             | 1.05             | 3922.01                               |
| MW - 2         | 06/16/11         | 3974.62                       | 52.38               | 53.26             | 0.88             | 3922.11                               |
| MW - 2         | 06/22/11         | 3974.62                       | 52.30               | 53.11             | 0.81             | 3922.20                               |
| MW - 2         | 06/30/11         | 3974.62                       | 52.22               | 53.24             | 1.02             | 3922.25                               |
| MW - 2         | 07/06/11         | 3974.62                       | 52.08               | 53.11             | 1.03             | 3922.39                               |
| MW - 2         | 07/13/11         | 3974.62                       | 52.29               | 53.20             | 0.91             | 3922.19                               |
| MW - 2         | 07/15/11         | 3974.62                       | 52.26               | 53.66             | 1.40             | 3922.15                               |
| MW - 2         | 07/19/11         | 3974.62                       | 52.09               | 52.72             | 0.63             | 3922.44                               |
| MW - 2         | 07/21/11         | 3974.62                       | 52.10               | 52.98             | 0.88             | 3922.39                               |
| MW - 2         | 07/26/11         | 3974.62                       | 52.24               | 52.94             | 0.70             | 3922.28                               |
| MW - 2         | 07/28/11         | 3974.62                       | 52.04               | 53.04             | 1.00             | 3922.43                               |
| MW - 2         | 08/02/11         | 3974.62                       | 52.48               | 53.60             | 1.12             | 3921.97                               |
| MW - 2         | 08/09/11         | 3974.62                       | 52.34               | 53.79             | 1.45             | 3922.06                               |
| MW - 2         | 08/12/11         | 3974.62                       | 52.37               | 53.40             | 1.03             | 3922.10                               |
| MW - 2         | 08/15/11         | 3974.62                       | 52.37               | 53.40             | 1.03             | 3922.10                               |
| MW - 2         | 08/16/11         | 3974.62                       | 52.13               | 52.68             | 0.55             | 3922.41                               |
| MW - 2         | 08/19/11         | 3974.62                       | 52.20               | 52.79             | 0.59             | 3922.33                               |
| MW - 2         | 08/23/11         | 3974.62                       | 52.15               | 52.69             | 0.54             | 3922.39                               |
| MW - 2         | 08/26/11         | 3974.62                       | 52.25               | 53.18             | 0.93             | 3922.23                               |
| MW - 2         | 08/30/11         | 3974.62                       | 52.11               | 52.55             | 0.44             | 3922.44                               |
| MW - 2         | 09/01/11         | 3974.62                       | 52.13               | 52.44             | 0.31             | 3922.44                               |
| MW - 2         | 09/08/11         | 3974.62                       | 52.30               | 53.59             | 1.29             | 3922.13                               |
| MW - 2         | 09/13/11         | 3974.62                       | 52.17               | 52.31             | 0.14             | 3922.43                               |
| MW - 2         | 09/15/11         | 3974.62                       | 52.27               | 53.17             | 0.90             | 3922.22                               |
| MW - 2         | 09/22/11         | 3974.62                       | 52.08               | 52.72             | 0.64             | 3922.44                               |
| MW - 2         | 10/06/11         | 3974.62                       | 52.30               | 52.96             | 0.66             | 3922.22                               |
| MW - 2         | 10/13/11         | 3974.62                       | 52.42               | 53.77             | 1.35             | 3922.00                               |
| MW - 2         | 10/26/11         | 3974.62                       | 52.27               | 53.48             | 1.21             | 3922.17                               |
| MW - 2         | 11/22/11         | 3974.62                       | 52.32               | 53.20             | 0.88             | 3922.17                               |
| MW - 2         | 12/02/11         | 3974.62                       | 52.08               | 52.74             | 0.66             | 3922.44                               |
| MW - 2         | 12/29/11         | 3974.62                       | 52.07               | 52.70             | 0.63             | 3922.46                               |
| MW - 2         | 01/26/12         | 3974.62                       | 52.24               | 53.48             | 1.24             | 3922.19                               |
| MW - 2         | 01/31/12         | 3974.62                       | 52.33               | 53.92             | 1.59             | 3922.05                               |
| MW - 2         | 02/15/12         | 3974.62                       | 52.10               | 52.68             | 0.58             | 3922.43                               |
| MW - 2         | 02/28/12         | 3974.62                       | 52.09               | 52.83             | 0.74             | 3922.42                               |
| MW - 2         | 03/20/12         | 3974.62                       | 52.35               | 54.08             | 1.73             | 3922.01                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 2      | 03/27/12      | 3974.62                 | 52.14            | 52.95          | 0.81          | 3922.36                         |
| MW - 2      | 04/10/12      | 3974.62                 | 52.39            | 53.30          | 0.91          | 3922.09                         |
| MW - 2      | 04/19/12      | 3974.62                 | 52.14            | 53.02          | 0.88          | 3922.35                         |
| MW - 2      | 04/26/12      | 3974.62                 | 52.09            | 52.63          | 0.54          | 3922.45                         |
| MW - 2      | 05/08/12      | 3974.62                 | 52.09            | 52.63          | 0.54          | 3922.45                         |
| MW - 2      | 05/15/12      | 3974.62                 | 52.09            | 52.73          | 0.64          | 3922.43                         |
| MW - 2      | 05/17/12      | 3974.62                 | 52.08            | 52.74          | 0.66          | 3922.44                         |
| MW - 2      | 06/05/12      | 3974.62                 | 52.12            | 53.02          | 0.90          | 3922.37                         |
| MW - 2      | 06/21/12      | 3974.62                 | 52.12            | 53.14          | 1.02          | 3922.35                         |
| MW - 2      | 06/28/12      | 3974.62                 | 52.11            | 53.19          | 1.08          | 3922.35                         |
| MW - 2      | 07/17/12      | 3974.62                 | 52.12            | 52.93          | 0.81          | 3922.38                         |
| MW - 2      | 08/01/12      | 3974.62                 | 52.20            | 52.85          | 0.65          | 3922.32                         |
| MW - 2      | 10/02/12      | 3974.62                 | 52.22            | 53.20          | 0.98          | 3922.25                         |
| MW - 2      | 10/09/12      | 3974.62                 | 52.14            | 53.72          | 1.58          | 3922.24                         |
| MW - 2      | 10/16/12      | 3974.62                 | 52.19            | 53.12          | 0.93          | 3922.29                         |
| MW - 2      | 10/25/12      | 3974.62                 | 52.18            | 53.24          | 1.06          | 3922.28                         |
| MW - 2      | 10/30/12      | 3974.62                 | 52.18            | 53.24          | 1.06          | 3922.28                         |
| MW - 2      | 11/29/12      | 3974.62                 | 52.22            | 53.76          | 1.54          | 3922.17                         |
| MW - 2      | 12/14/12      | 3974.62                 | 52.19            | 53.43          | 1.24          | 3922.24                         |
| MW - 2      | 02/11/13      | 3974.62                 | 52.19            | 53.15          | 0.96          | 3922.29                         |
| MW - 2      | 04/11/13      | 3974.62                 | 52.39            | 53.90          | 1.51          | 3922.00                         |
| MW - 2      | 04/15/13      | 3974.62                 | 52.62            | 54.49          | 1.87          | 3921.72                         |
| MW - 2      | 04/22/13      | 3974.62                 | 52.21            | 53.03          | 0.82          | 3922.29                         |
| MW - 2      | 05/06/13      | 3974.62                 | 52.22            | 53.12          | 0.90          | 3922.27                         |
| MW - 2      | 05/09/13      | 3974.62                 | 52.22            | 53.16          | 0.94          | 3922.26                         |
| MW - 2      | 05/20/13      | 3974.62                 | 52.22            | 53.20          | 0.98          | 3922.25                         |
| MW - 2      | 05/24/13      | 3974.62                 | 52.34            | 53.68          | 1.34          | 3922.08                         |
| MW - 2      | 05/29/13      | 3974.62                 | 52.21            | 53.18          | 0.97          | 3922.26                         |
| MW - 2      | 05/31/13      | 3974.62                 | 52.31            | 53.61          | 1.30          | 3922.12                         |
| MW - 2      | 06/07/13      | 3974.62                 | 52.64            | 54.51          | 1.87          | 3921.70                         |
| MW - 2      | 06/12/13      | 3974.62                 | 52.56            | 54.57          | 2.01          | 3921.76                         |
| MW - 2      | 06/14/13      | 3974.62                 | 52.63            | 53.92          | 1.29          | 3921.80                         |
| MW - 2      | 06/19/13      | 3974.62                 | 52.63            | 54.46          | 1.83          | 3921.72                         |
| MW - 2      | 06/21/13      | 3974.62                 | 52.74            | 54.13          | 1.39          | 3921.67                         |
| MW - 2      | 06/25/13      | 3974.62                 | 52.22            | 53.15          | 0.93          | 3922.26                         |
| MW - 2      | 06/26/13      | 3974.62                 | 52.40            | 53.72          | 1.32          | 3922.02                         |
| MW - 2      | 07/03/13      | 3974.62                 | 52.62            | 54.30          | 1.68          | 3921.75                         |
| MW - 2      | 07/09/13      | 3974.62                 | 52.73            | 54.09          | 1.36          | 3921.69                         |
| MW - 2      | 07/11/13      | 3974.62                 | 52.71            | 53.98          | 1.27          | 3921.72                         |
| MW - 2      | 07/24/13      | 3974.62                 | 52.54            | 53.77          | 1.23          | 3921.90                         |
| MW - 2      | 07/26/13      | 3974.62                 | 52.45            | 54.29          | 1.84          | 3921.89                         |
| MW - 2      | 07/31/13      | 3974.62                 | 52.20            | 53.86          | 1.66          | 3922.17                         |
| MW - 2      | 08/02/13      | 3974.62                 | 52.48            | 54.04          | 1.56          | 3921.91                         |
| MW - 2      | 08/06/13      | 3974.62                 | 52.23            | 53.82          | 1.59          | 3922.15                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 2      | 08/14/13      | 3974.62                 | 52.23            | 54.04          | 1.81          | 3922.12                         |
| MW - 2      | 08/21/13      | 3974.62                 | 52.48            | 54.61          | 2.13          | 3921.82                         |
| MW - 2      | 08/26/13      | 3974.62                 | 52.50            | 54.25          | 1.75          | 3921.86                         |
| MW - 2      | 09/06/13      | 3974.62                 | 52.41            | 53.65          | 1.24          | 3922.02                         |
| MW - 2      | 08/30/13      | 3974.62                 | 52.25            | 53.72          | 1.47          | 3922.15                         |
| MW - 2      | 09/13/13      | 3974.62                 | 52.35            | 53.37          | 1.02          | 3922.12                         |
| MW - 2      | 09/27/13      | 3974.62                 | 52.35            | 54.18          | 1.83          | 3922.00                         |
| MW - 2      | 09/30/13      | 3974.62                 | 52.33            | 53.79          | 1.46          | 3922.07                         |
| MW - 2      | 10/02/13      | 3974.62                 | 52.55            | 54.25          | 1.70          | 3921.82                         |
| MW - 2      | 10/03/13      | 3974.62                 | 52.48            | 53.27          | 0.79          | 3922.02                         |
| MW - 2      | 10/11/13      | 3974.62                 | 52.29            | 53.32          | 1.03          | 3922.18                         |
| MW - 2      | 10/17/13      | 3974.62                 | 52.31            | 53.39          | 1.08          | 3922.15                         |
| MW - 2      | 10/22/13      | 3974.62                 | 52.29            | 53.40          | 1.11          | 3922.16                         |
| MW - 2      | 10/24/13      | 3974.62                 | 52.43            | 53.60          | 1.17          | 3922.01                         |
| MW - 2      | 10/30/13      | 3974.62                 | 52.37            | 53.76          | 1.39          | 3922.04                         |
| MW - 2      | 11/01/13      | 3974.62                 | 52.33            | 53.33          | 1.00          | 3922.14                         |
| MW - 2      | 11/04/13      | 3974.62                 | 52.32            | 53.41          | 1.09          | 3922.14                         |
| MW - 2      | 11/08/13      | 3974.62                 | 52.67            | 54.50          | 1.83          | 3921.68                         |
| MW - 2      | 11/13/13      | 3974.62                 | 52.30            | 53.45          | 1.15          | 3922.15                         |
| MW - 2      | 11/15/13      | 3974.62                 | 52.40            | 53.36          | 0.96          | 3922.08                         |
| MW - 2      | 11/18/13      | 3974.62                 | 52.31            | 53.32          | 1.01          | 3922.16                         |
| MW - 2      | 12/12/13      | 3974.62                 | 52.30            | 53.39          | 1.09          | 3922.16                         |
| MW - 2      | 12/16/13      | 3974.62                 | 52.31            | 53.56          | 1.25          | 3922.12                         |
| MW - 2      | 12/18/13      | 3974.62                 | 52.34            | 53.52          | 1.18          | 3922.10                         |
| MW - 2      | 12/23/13      | 3974.62                 | 52.36            | 53.83          | 1.47          | 3922.04                         |
| MW - 2      | 12/30/13      | 3974.62                 | 52.32            | 53.67          | 1.35          | 3922.10                         |
| MW - 2      | 01/01/14      | 3974.62                 | 52.32            | 53.63          | 1.31          | 3922.10                         |
| MW - 2      | 01/06/14      | 3974.62                 | 52.29            | 53.53          | 1.24          | 3922.14                         |
| MW - 2      | 01/15/14      | 3974.62                 | 52.36            | 54.27          | 1.91          | 3921.97                         |
| MW - 2      | 01/17/14      | 3974.62                 | 52.29            | 53.57          | 1.28          | 3922.14                         |
| MW - 2      | 01/20/14      | 3974.62                 | 52.53            | 54.20          | 1.67          | 3921.84                         |
| MW - 2      | 01/22/14      | 3974.62                 | 52.66            | 54.30          | 1.64          | 3921.71                         |
| MW - 2      | 01/29/14      | 3974.62                 | 52.32            | 53.59          | 1.27          | 3922.11                         |
| MW - 2      | 02/04/14      | 3974.62                 | 52.58            | 53.67          | 1.09          | 3921.88                         |
| MW - 2      | 02/13/14      | 3974.62                 | 52.29            | 53.68          | 1.39          | 3922.12                         |
| MW - 2      | 02/21/14      | 3974.62                 | 52.58            | 55.18          | 2.60          | 3921.65                         |
| MW - 2      | 02/26/14      | 3974.62                 | 52.57            | 55.13          | 2.56          | 3921.67                         |
| MW - 2      | 03/12/14      | 3974.62                 | 52.33            | 54.38          | 2.05          | 3921.98                         |
| MW - 2      | 03/14/14      | 3974.62                 | 52.28            | 54.35          | 2.07          | 3922.03                         |
| MW - 2      | 03/17/14      | 3974.62                 | 52.40            | 54.36          | 1.96          | 3921.93                         |
| MW - 2      | 03/24/14      | 3974.62                 | 51.80            | 53.59          | 1.79          | 3922.55                         |
| MW - 2      | 03/26/14      | 3974.62                 | 51.82            | 53.73          | 1.91          | 3922.51                         |
| MW - 2      | 04/09/14      | 3974.62                 | 52.28            | 53.47          | 1.19          | 3922.16                         |
| MW - 2      | 04/18/14      | 3974.62                 | 52.29            | 53.53          | 1.24          | 3922.14                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 2      | 04/21/14      | 3974.62                 | 52.33            | 53.37          | 1.04          | 3922.13                         |
| MW - 2      | 04/28/14      | 3974.62                 | 52.30            | 53.54          | 1.24          | 3922.13                         |
| MW - 2      | 05/09/14      | 3974.62                 | 52.38            | 53.91          | 1.53          | 3922.01                         |
| MW - 2      | 05/12/14      | 3974.62                 | 52.55            | 54.06          | 1.51          | 3921.84                         |
| MW - 2      | 05/19/14      | 3974.62                 | 52.36            | 54.14          | 1.78          | 3921.99                         |
| MW - 2      | 05/28/14      | 3974.62                 | 52.37            | 54.21          | 1.84          | 3921.97                         |
| MW - 2      | 06/04/14      | 3974.62                 | 52.29            | 54.19          | 1.90          | 3922.05                         |
| MW - 2      | 06/13/14      | 3974.62                 | 52.36            | 54.25          | 1.89          | 3921.98                         |
| MW - 2      | 06/16/14      | 3974.62                 | 52.35            | 53.39          | 1.04          | 3922.11                         |
| MW - 2      | 07/02/14      | 3974.62                 | 52.36            | 53.67          | 1.31          | 3922.06                         |
| MW - 2      | 07/07/14      | 3974.62                 | 52.34            | 53.70          | 1.36          | 3922.08                         |
| MW - 2      | 07/18/14      | 3974.62                 | 52.47            | 54.42          | 1.95          | 3921.86                         |
| MW - 2      | 07/30/14      | 3974.62                 | 52.33            | 53.93          | 1.60          | 3922.05                         |
| MW - 2      | 08/11/14      | 3974.62                 | 52.34            | 54.03          | 1.69          | 3922.03                         |
| MW - 2      | 08/22/14      | 3974.62                 | 52.39            | 55.65          | 3.26          | 3921.74                         |
| MW - 2      | 08/23/14      | 3974.62                 | 52.39            | 55.65          | 3.26          | 3921.74                         |
| MW - 2      | 09/10/14      | 3974.62                 | 52.41            | 54.08          | 1.67          | 3921.96                         |
| MW - 2      | 09/23/14      | 3974.62                 | 52.41            | 54.13          | 1.72          | 3921.95                         |
| MW - 2      | 09/25/14      | 3974.62                 | 52.78            | 54.25          | 1.47          | 3921.62                         |
| MW - 2      | 10/03/14      | 3974.62                 | 52.52            | 54.19          | 1.67          | 3921.85                         |
| MW - 2      | 10/15/14      | 3974.62                 | 52.41            | 54.23          | 1.82          | 3921.94                         |
| MW - 2      | 10/17/14      | 3974.62                 | 52.59            | 54.11          | 1.52          | 3921.80                         |
| MW - 2      | 10/24/14      | 3974.62                 | 52.67            | 53.99          | 1.32          | 3921.75                         |
| MW - 2      | 10/27/14      | 3974.62                 | 52.51            | 53.94          | 1.43          | 3921.90                         |
| MW - 2      | 10/31/14      | 3974.62                 | 52.36            | 52.85          | 0.49          | 3922.19                         |
| MW - 2      | 11/03/14      | 3974.62                 | 52.60            | 54.71          | 2.11          | 3921.70                         |
| MW - 2      | 11/10/14      | 3974.62                 | 52.62            | 54.10          | 1.48          | 3921.78                         |
| MW - 2      | 11/14/14      | 3974.62                 | 52.44            | 53.53          | 1.09          | 3922.02                         |
| MW - 2      | 11/17/14      | 3974.62                 | 52.45            | 53.47          | 1.02          | 3922.02                         |
| MW - 2      | 11/18/14      | 3974.62                 | 52.45            | 53.47          | 1.02          | 3922.02                         |
| MW - 2      | 11/21/14      | 3974.62                 | 52.44            | 53.55          | 1.11          | 3922.01                         |
| MW - 2      | 12/03/14      | 3974.62                 | 52.37            | 53.81          | 1.44          | 3922.03                         |
| MW - 2      | 12/05/14      | 3974.62                 | 52.46            | 53.46          | 1.00          | 3922.01                         |
| MW - 2      | 12/12/14      | 3974.62                 | 52.47            | 53.59          | 1.12          | 3921.98                         |
| MW - 2      | 12/15/14      | 3974.62                 | 52.47            | 53.59          | 1.12          | 3921.98                         |
| MW - 2      | 12/19/14      | 3974.62                 | 52.43            | 53.56          | 1.13          | 3922.02                         |
| MW - 2      | 12/22/14      | 3974.62                 | 52.41            | 53.49          | 1.08          | 3922.05                         |
| MW - 2      | 01/05/15      | 3974.62                 | 52.38            | 53.46          | 1.08          | 3922.08                         |
| MW - 2      | 01/09/15      | 3974.62                 | 52.38            | 53.72          | 1.34          | 3922.04                         |
| MW - 2      | 01/14/15      | 3974.62                 | 53.37            | 53.74          | 0.37          | 3921.19                         |
| MW - 2      | 01/21/15      | 3974.62                 | 52.39            | 53.41          | 1.02          | 3922.08                         |
| MW - 2      | 02/18/15      | 3974.62                 | 52.64            | 54.21          | 1.57          | 3921.74                         |
| MW - 2      | 02/19/15      | 3974.62                 | 52.46            | 53.29          | 0.83          | 3922.04                         |
| MW - 2      | 03/09/15      | 3974.62                 | 52.38            | 53.40          | 1.02          | 3922.09                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 2      | 03/11/15      | 3974.62                 | 52.36            | 53.66          | 1.30          | 3922.07                         |
| MW - 2      | 03/18/15      | 3974.62                 | 52.35            | 53.66          | 1.31          | 3922.07                         |
| MW - 2      | 03/31/15      | 3974.62                 | 52.41            | 53.43          | 1.02          | 3922.06                         |
| MW - 2      | 04/09/15      | 3974.62                 | 52.35            | 53.58          | 1.23          | 3922.09                         |
| MW - 2      | 04/15/15      | 3974.62                 | 52.34            | 53.61          | 1.27          | 3922.09                         |
| MW - 2      | 04/22/15      | 3974.62                 | 52.34            | 53.63          | 1.29          | 3922.09                         |
| MW - 2      | 05/12/15      | 3974.62                 | 52.34            | 53.65          | 1.31          | 3922.08                         |
| MW - 2      | 05/26/15      | 3974.62                 | 52.40            | 53.38          | 0.98          | 3922.07                         |
| MW - 2      | 06/01/15      | 3974.62                 | 52.37            | 53.70          | 1.33          | 3922.05                         |
| MW - 2      | 06/04/15      | 3974.62                 | 52.35            | 53.61          | 1.26          | 3922.08                         |
| MW - 2      | 06/22/15      | 3974.62                 | 52.46            | 54.41          | 1.95          | 3921.87                         |
| MW - 2      | 06/26/15      | 3974.62                 | 52.75            | 54.40          | 1.65          | 3921.62                         |
| MW - 2      | 07/22/15      | 3974.62                 | 52.58            | 54.16          | 1.58          | 3921.80                         |
| MW - 2      | 07/27/15      | 3974.62                 | 52.66            | 54.03          | 1.37          | 3921.75                         |
| MW - 2      | 08/18/15      | 3974.62                 | 52.24            | 53.73          | 1.49          | 3922.16                         |
| MW - 2      | 09/09/15      | 3974.62                 | 52.00            | 53.85          | 1.85          | 3922.34                         |
| MW - 2      | 09/30/15      | 3974.62                 | 52.70            | 54.95          | 2.25          | 3921.58                         |
| MW - 2      | 10/08/15      | 3974.62                 | 52.54            | 54.57          | 2.03          | 3921.78                         |
| MW - 2      | 10/16/15      | 3974.62                 | 52.62            | 55.10          | 2.48          | 3921.63                         |
| MW - 2      | 10/21/15      | 3974.62                 | 52.45            | 53.80          | 1.35          | 3921.97                         |
| MW - 2      | 11/18/15      | 3974.62                 | 52.58            | 54.70          | 2.12          | 3921.72                         |
| MW - 2      | 11/23/15      | 3974.62                 | 53.01            | 53.31          | 0.30          | 3921.57                         |
| MW - 2      | 12/04/15      | 3974.62                 | 52.40            | 53.85          | 1.45          | 3922.00                         |
| MW - 2      | 12/09/15      | 3974.62                 | 52.71            | 54.88          | 2.17          | 3921.58                         |
|             |               |                         |                  |                |               |                                 |
| MW - 3      | 03/02/00      | 3974.60                 | 52.71            | 55.03          | 2.32          | 3921.54                         |
| MW - 3      | 04/25/00      | 3974.60                 | 52.61            | 55.09          | 2.48          | 3921.62                         |
| MW - 3      | 09/06/00      | 3974.60                 | 52.54            | 55.66          | 3.12          | 3921.59                         |
| MW - 3      | 11/28/00      | 3974.60                 | 52.64            | 55.57          | 2.93          | 3921.52                         |
| MW - 3      | 02/21/01      | 3974.60                 | 52.94            | 53.50          | 0.56          | 3921.58                         |
| MW - 3      | 05/31/01      | 3974.60                 | 52.51            | 55.71          | 3.20          | 3921.61                         |
| MW - 3      | 08/23/01      | 3974.60                 | 52.46            | 55.80          | 3.34          | 3921.64                         |
| MW - 3      | 11/21/01      | 3974.60                 | 52.46            | 55.81          | 3.35          | 3921.64                         |
| MW - 3      | 02/13/02      | 3974.60                 | 52.51            | 55.78          | 3.27          | 3921.60                         |
| MW - 3      | 06/12/02      | 3974.60                 | 52.47            | 55.17          | 2.70          | 3921.73                         |
| MW - 3      | 08/26/02      | 3974.60                 | 55.74            | 52.49          | -3.25         | 3919.35                         |
| MW - 3      | 11/08/02      | 3974.60                 | 53.15            | 53.21          | 0.06          | 3921.44                         |
| MW - 3      | 11/21/02      | 3974.60                 | 53.15            | 53.21          | 0.06          | 3921.44                         |
| MW - 3      | 12/27/02      | 3974.60                 | 52.64            | 55.24          | 2.60          | 3921.57                         |
| MW - 3      | 01/06/03      | 3974.60                 | 52.87            | 54.47          | 1.60          | 3921.49                         |
| MW - 3      | 01/08/03      | 3974.60                 | 52.77            | 54.69          | 1.92          | 3921.54                         |
| MW - 3      | 01/10/03      | 3974.60                 | 53.04            | 53.46          | 0.42          | 3921.50                         |
| MW - 3      | 01/13/03      | 3974.60                 | 53.04            | 53.41          | 0.37          | 3921.50                         |
| MW - 3      | 02/05/03      | 3974.60                 | 53.04            | 53.41          | 0.37          | 3921.50                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 3         | 02/26/03         | 3974.60                       | 52.81               | 54.24             | 1.43             | 3921.58                               |
| MW - 3         | 03/04/03         | 3974.60                       | 52.84               | 54.25             | 1.41             | 3921.55                               |
| MW - 3         | 03/12/03         | 3974.60                       | 52.65               | 55.24             | 2.59             | 3921.56                               |
| MW - 3         | 03/18/03         | 3974.60                       | 52.72               | 55.30             | 2.58             | 3921.49                               |
| MW - 3         | 03/25/03         | 3974.60                       | 52.64               | 55.30             | 2.66             | 3921.56                               |
| MW - 3         | 03/31/03         | 3974.60                       | 52.95               | 53.74             | 0.79             | 3921.53                               |
| MW - 3         | 04/09/03         | 3974.60                       | 52.41               | 52.98             | 0.57             | 3922.10                               |
| MW - 3         | 04/14/03         | 3974.60                       | 52.68               | 52.91             | 0.23             | 3921.89                               |
| MW - 3         | 05/07/03         | 3974.60                       | 52.56               | 55.23             | 2.67             | 3921.64                               |
| MW - 3         | 05/08/03         | 3974.60                       | 52.64               | 55.30             | 2.66             | 3921.56                               |
| MW - 3         | 05/13/03         | 3974.60                       | 52.66               | 55.36             | 2.70             | 3921.54                               |
| MW - 3         | 05/21/03         | 3974.60                       | 52.65               | 55.40             | 2.75             | 3921.54                               |
| MW - 3         | 05/28/03         | 3974.60                       | 53.03               | 53.87             | 0.84             | 3921.44                               |
| MW - 3         | 06/03/03         | 3974.60                       | 52.72               | 55.12             | 2.40             | 3921.52                               |
| MW - 3         | 06/09/03         | 3974.60                       | 52.65               | 55.50             | 2.85             | 3921.52                               |
| MW - 3         | 07/01/03         | 3974.60                       | 52.68               | 55.81             | 3.13             | 3921.45                               |
| MW - 3         | 07/08/03         | 3974.60                       | 52.68               | 55.84             | 3.16             | 3921.45                               |
| MW - 3         | 07/29/03         | 3974.60                       | 52.53               | 55.71             | 3.18             | 3921.59                               |
| MW - 3         | 08/04/03         | 3974.60                       | 52.70               | 55.91             | 3.21             | 3921.42                               |
| MW - 3         | 08/18/03         | 3974.60                       | 52.81               | 56.01             | 3.20             | 3921.31                               |
| MW - 3         | 08/25/03         | 3974.60                       | 53.83               | 56.06             | 2.23             | 3920.44                               |
| MW - 3         | 10/01/03         | 3974.60                       | 52.60               | 54.81             | 2.21             | 3921.67                               |
| MW - 3         | 10/06/03         | 3974.60                       | 62.62               | 55.73             | -6.89            | 3913.01                               |
| MW - 3         | 10/08/03         | 3974.60                       | 52.90               | 56.09             | 3.19             | 3921.22                               |
| MW - 3         | 10/15/03         | 3974.60                       | 52.89               | 56.04             | 3.15             | 3921.24                               |
| MW - 3         | 11/12/03         | 3974.60                       | 53.21               | 56.72             | 3.51             | 3920.86                               |
| MW - 3         | 11/19/03         | 3974.60                       | 52.99               | 56.08             | 3.09             | 3921.15                               |
| MW - 3         | 12/01/03         | 3974.60                       | 53.05               | 56.08             | 3.03             | 3921.10                               |
| MW - 3         | 12/10/03         | 3974.60                       | 52.72               | 55.74             | 3.02             | 3921.43                               |
| MW - 3         | 02/05/04         | 3974.60                       | 53.04               | 56.11             | 3.07             | 3921.10                               |
| MW - 3         | 02/17/04         | 3974.60                       | 52.80               | 55.64             | 2.84             | 3921.37                               |
| MW - 3         | 02/25/04         | 3974.60                       | 53.03               | 56.08             | 3.05             | 3921.11                               |
| MW - 3         | 03/09/04         | 3974.60                       | 52.83               | 55.86             | 3.03             | 3921.32                               |
| MW - 3         | 03/16/04         | 3974.60                       | 52.79               | 55.81             | 3.02             | 3921.36                               |
| MW - 3         | 03/22/04         | 3974.60                       | 52.85               | 54.16             | 1.31             | 3921.55                               |
| MW - 3         | 04/07/04         | 3974.60                       | 52.87               | 53.18             | 0.31             | 3921.68                               |
| MW - 3         | 04/12/04         | 3974.60                       | 52.97               | 55.02             | 2.05             | 3921.32                               |
| MW - 3         | 04/19/04         | 3974.60                       | 52.80               | 53.06             | 0.26             | 3921.76                               |
| MW - 3         | 05/05/04         | 3974.60                       | 52.87               | 55.57             | 2.70             | 3921.33                               |
| MW - 3         | 05/11/04         | 3974.60                       | 53.02               | 55.68             | 2.66             | 3921.18                               |
| MW - 3         | 06/07/04         | 3974.60                       | 52.62               | 55.29             | 2.67             | 3921.58                               |
| MW - 3         | 06/15/04         | 3974.60                       | 52.65               | 55.27             | 2.62             | 3921.56                               |
| MW - 3         | 06/20/04         | 3974.60                       | 52.65               | 55.27             | 2.62             | 3921.56                               |
| MW - 3         | 06/21/04         | 3974.60                       | 52.61               | 55.32             | 2.71             | 3921.58                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 3      | 06/28/04      | 3974.60                 | 52.62            | 55.34          | 2.72          | 3921.57                         |
| MW - 3      | 07/08/04      | 3974.60                 | 52.60            | 55.31          | 2.71          | 3921.59                         |
| MW - 3      | 07/12/04      | 3974.60                 | 52.57            | 55.33          | 2.76          | 3921.62                         |
| MW - 3      | 08/06/04      | 3974.60                 | 52.69            | 55.36          | 2.67          | 3921.51                         |
| MW - 3      | 08/12/04      | 3974.60                 | 52.68            | 55.37          | 2.69          | 3921.52                         |
| MW - 3      | 08/17/04      | 3974.60                 | 52.63            | 55.30          | 2.67          | 3921.57                         |
| MW - 3      | 08/26/04      | 3974.60                 | 52.63            | 55.79          | 3.16          | 3921.50                         |
| MW - 3      | 09/01/04      | 3974.60                 | 52.74            | 55.15          | 2.41          | 3921.50                         |
| MW - 3      | 09/03/04      | 3974.60                 | 52.83            | 55.22          | 2.39          | 3921.41                         |
| MW - 3      | 09/08/04      | 3974.60                 | 52.78            | 55.42          | 2.64          | 3921.42                         |
| MW - 3      | 09/14/04      | 3974.60                 | 52.76            | 55.05          | 2.29          | 3921.50                         |
| MW - 3      | 09/22/04      | 3974.60                 | 52.86            | 55.05          | 2.19          | 3921.41                         |
| MW - 3      | 10/01/04      | 3974.60                 | 52.73            | 55.30          | 2.57          | 3921.48                         |
| MW - 3      | 10/08/04      | 3974.60                 | 52.78            | 55.16          | 2.38          | 3921.46                         |
| MW - 3      | 10/15/04      | 3974.60                 | 52.65            | 54.80          | 2.15          | 3921.63                         |
| MW - 3      | 10/22/04      | 3974.60                 | 52.66            | 55.20          | 2.54          | 3921.56                         |
| MW - 3      | 11/12/04      | 3974.60                 | 53.11            | 53.44          | 0.33          | 3921.44                         |
| MW - 3      | 11/26/04      | 3974.60                 | 53.10            | 53.60          | 0.50          | 3921.43                         |
| MW - 3      | 12/02/04      | 3974.60                 | 53.25            | 53.50          | 0.25          | 3921.31                         |
| MW - 3      | 12/06/04      | 3974.60                 | 53.09            | 53.59          | 0.50          | 3921.44                         |
| MW - 3      | 12/13/04      | 3974.60                 | 53.12            | 53.60          | 0.48          | 3921.41                         |
| MW - 3      | 12/15/04      | 3974.60                 | 53.12            | 53.60          | 0.48          | 3921.41                         |
| MW - 3      | 12/27/04      | 3974.60                 | 52.87            | 54.20          | 1.33          | 3921.53                         |
| MW - 3      | 01/10/05      | 3974.60                 | 52.72            | 54.54          | 1.82          | 3921.61                         |
| MW - 3      | 01/18/05      | 3974.60                 | 52.70            | 54.70          | 2.00          | 3921.60                         |
| MW - 3      | 01/18/05      | 3974.60                 | 52.81            | 53.85          | 1.04          | 3921.63                         |
| MW - 3      | 01/25/05      | 3974.60                 | 52.65            | 54.58          | 1.93          | 3921.66                         |
| MW - 3      | 01/27/05      | 3974.60                 | 52.70            | 54.40          | 1.70          | 3921.65                         |
| MW - 3      | 02/01/05      | 3974.60                 | 52.66            | 54.47          | 1.81          | 3921.67                         |
| MW - 3      | 02/07/05      | 3974.60                 | 52.60            | 54.49          | 1.89          | 3921.72                         |
| MW - 3      | 02/11/05      | 3974.60                 | 52.63            | 54.38          | 1.75          | 3921.71                         |
| MW - 3      | 02/15/05      | 3974.60                 | 52.64            | 54.36          | 1.72          | 3921.70                         |
| MW - 3      | 02/22/05      | 3974.60                 | 52.50            | 54.89          | 2.39          | 3921.74                         |
| MW - 3      | 02/24/05      | 3974.60                 | 52.51            | 54.85          | 2.34          | 3921.74                         |
| MW - 3      | 03/03/05      | 3974.60                 | 52.49            | 54.90          | 2.41          | 3921.75                         |
| MW - 3      | 03/09/05      | 3974.60                 | 52.49            | 54.92          | 2.43          | 3921.75                         |
| MW - 3      | 03/22/05      | 3974.60                 | 52.52            | 54.84          | 2.32          | 3921.73                         |
| MW - 3      | 03/24/05      | 3974.60                 | 52.52            | 54.84          | 2.32          | 3921.73                         |
| MW - 3      | 03/31/05      | 3974.60                 | DAMAGED          |                | -             | -                               |
| MW - 3      | 06/22/05      | 3974.60                 | 52.45            | 54.60          | 2.15          | 3921.83                         |
| MW - 3      | 07/21/05      | 3974.60                 | 52.38            | 54.60          | 2.22          | 3921.89                         |
| MW - 3      | 08/03/05      | 3974.60                 | 52.40            | 54.52          | 2.12          | 3921.88                         |
| MW - 3      | 08/12/05      | 3974.60                 | 52.39            | 53.43          | 1.04          | 3922.05                         |
| MW - 3      | 08/15/05      | 3974.60                 | 52.44            | 54.27          | 1.83          | 3921.89                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 3      | 08/22/05      | 3974.60                 | 52.43            | 54.34          | 1.91          | 3921.88                         |
| MW - 3      | 08/30/05      | 3974.60                 | 52.39            | 54.38          | 1.99          | 3921.91                         |
| MW - 3      | 09/07/05      | 3974.60                 | 52.40            | 54.39          | 1.99          | 3921.90                         |
| MW - 3      | 09/14/05      | 3974.60                 | 52.43            | 54.30          | 1.87          | 3921.89                         |
| MW - 3      | 09/20/05      | 3974.60                 | 52.40            | 54.20          | 1.80          | 3921.93                         |
| MW - 3      | 09/21/05      | 3974.60                 | 52.43            | 54.33          | 1.90          | 3921.89                         |
| MW - 3      | 09/28/05      | 3974.60                 | 52.39            | 54.36          | 1.97          | 3921.91                         |
| MW - 3      | 10/06/05      | 3974.60                 | 52.30            | 54.68          | 2.38          | 3921.94                         |
| MW - 3      | 10/13/05      | 3974.60                 | 52.30            | 54.66          | 2.36          | 3921.95                         |
| MW - 3      | 10/20/05      | 3974.60                 | 52.31            | 54.60          | 2.29          | 3921.95                         |
| MW - 3      | 10/26/05      | 3974.60                 | 52.32            | 54.60          | 2.28          | 3921.94                         |
| MW - 3      | 11/03/05      | 3974.60                 | 52.28            | 54.59          | 2.31          | 3921.97                         |
| MW - 3      | 11/10/05      | 3974.60                 | 52.27            | 54.62          | 2.35          | 3921.98                         |
| MW - 3      | 11/16/05      | 3974.60                 | 52.31            | 54.58          | 2.27          | 3921.95                         |
| MW - 3      | 11/23/05      | 3974.60                 | 52.36            | 54.50          | 2.14          | 3921.92                         |
| MW - 3      | 11/28/05      | 3974.60                 | 52.25            | 54.60          | 2.35          | 3922.00                         |
| MW - 3      | 12/05/05      | 3974.60                 | 52.30            | 54.49          | 2.19          | 3921.97                         |
| MW - 3      | 12/12/05      | 3974.60                 | 52.29            | 54.51          | 2.22          | 3921.98                         |
| MW - 3      | 12/16/05      | 3974.60                 | 52.89            | 53.78          | 0.89          | 3921.58                         |
| MW - 3      | 12/19/05      | 3974.60                 | 52.36            | 54.53          | 2.17          | 3921.91                         |
| MW - 3      | 12/29/05      | 3974.60                 | 52.28            | 54.60          | 2.32          | 3921.97                         |
| MW - 3      | 01/04/06      | 3974.60                 | 52.33            | 54.58          | 2.25          | 3921.93                         |
| MW - 3      | 01/10/06      | 3974.60                 | 52.29            | 54.58          | 2.29          | 3921.97                         |
| MW - 3      | 01/17/06      | 3974.60                 | 52.28            | 54.52          | 2.24          | 3921.98                         |
| MW - 3      | 01/26/06      | 3974.60                 | 52.27            | 54.52          | 2.25          | 3921.99                         |
| MW - 3      | 01/31/06      | 3974.60                 | 52.28            | 54.50          | 2.22          | 3921.99                         |
| MW - 3      | 02/07/06      | 3974.60                 | 52.27            | 54.46          | 2.19          | 3922.00                         |
| MW - 3      | 02/09/06      | 3974.60                 | 52.36            | 54.15          | 1.79          | 3921.97                         |
| MW - 3      | 02/13/06      | 3974.60                 | 52.25            | 54.49          | 2.24          | 3922.01                         |
| MW - 3      | 02/22/06      | 3974.60                 | 52.25            | 54.53          | 2.28          | 3922.01                         |
| MW - 3      | 02/28/06      | 3974.60                 | 52.27            | 54.50          | 2.23          | 3922.00                         |
| MW - 3      | 03/07/06      | 3974.60                 | 52.28            | 54.46          | 2.18          | 3921.99                         |
| MW - 3      | 03/15/06      | 3974.60                 | 52.25            | 54.44          | 2.19          | 3922.02                         |
| MW - 3      | 03/20/06      | 3974.60                 | 52.24            | 54.37          | 2.13          | 3922.04                         |
| MW - 3      | 03/22/06      | 3974.60                 | 52.71            | 52.78          | 0.07          | 3921.88                         |
| MW - 3      | 03/29/06      | 3974.60                 | 52.28            | 54.11          | 1.83          | 3922.05                         |
| MW - 3      | 04/11/06      | 3974.60                 | 52.23            | 54.29          | 2.06          | 3922.06                         |
| MW - 3      | 04/18/06      | 3974.60                 | 52.23            | 54.32          | 2.09          | 3922.06                         |
| MW - 3      | 04/25/06      | 3974.60                 | 52.32            | 54.12          | 1.80          | 3922.01                         |
| MW - 3      | 05/02/06      | 3974.60                 | 52.23            | 54.43          | 2.20          | 3922.04                         |
| MW - 3      | 05/09/06      | 3974.60                 | 52.22            | 54.30          | 2.08          | 3922.07                         |
| MW - 3      | 05/16/06      | 3974.60                 | 52.22            | 54.29          | 2.07          | 3922.07                         |
| MW - 3      | 05/23/06      | 3974.60                 | 52.23            | 54.30          | 2.07          | 3922.06                         |
| MW - 3      | 05/31/06      | 3974.60                 | 52.23            | 54.31          | 2.08          | 3922.06                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 3      | 06/06/06      | 3974.60                 | 52.22            | 54.21          | 1.99          | 3922.08                         |
| MW - 3      | 06/13/06      | 3974.60                 | 52.21            | 54.24          | 2.03          | 3922.09                         |
| MW - 3      | 06/20/06      | 3974.60                 | 52.21            | 54.23          | 2.02          | 3922.09                         |
| MW - 3      | 06/21/06      | 3974.60                 | 52.34            | 53.66          | 1.32          | 3922.06                         |
| MW - 3      | 07/06/06      | 3974.60                 | 52.22            | 54.25          | 2.03          | 3922.08                         |
| MW - 3      | 07/12/06      | 3974.60                 | 52.29            | 53.96          | 1.67          | 3922.06                         |
| MW - 3      | 07/20/06      | 3974.60                 | 52.25            | 53.99          | 1.74          | 3922.09                         |
| MW - 3      | 07/25/06      | 3974.60                 | 52.29            | 53.88          | 1.59          | 3922.07                         |
| MW - 3      | 08/01/06      | 3974.60                 | 52.29            | 53.90          | 1.61          | 3922.07                         |
| MW - 3      | 08/16/06      | 3974.60                 | 52.32            | 53.78          | 1.46          | 3922.06                         |
| MW - 3      | 08/23/06      | 3974.60                 | 53.33            | 53.75          | 0.42          | 3921.21                         |
| MW - 3      | 08/28/06      | 3974.60                 | 52.32            | 53.79          | 1.47          | 3922.06                         |
| MW - 3      | 09/12/06      | 3974.60                 | 52.32            | 53.77          | 1.45          | 3922.06                         |
| MW - 3      | 09/22/06      | 3974.60                 | 52.34            | 54.01          | 1.67          | 3922.01                         |
| MW - 3      | 10/06/06      | 3974.60                 | WELL OBSTRUCTED  |                | -             | -                               |
| MW - 3      | 10/10/06      | 3974.60                 | WELL OBSTRUCTED  |                | -             | -                               |
| MW - 3      | 12/04/06      | 3974.60                 | WELL OBSTRUCTED  |                | -             | -                               |
| MW - 3      | 12/15/06      | 3974.60                 | WELL OBSTRUCTED  |                | -             | -                               |
| MW - 3      | 01/05/07      | 3974.60                 | WELL OBSTRUCTED  |                | -             | -                               |
| MW - 3      | 02/09/07      | 3974.60                 | INSUFFICIENT     |                | -             | -                               |
| MW - 3      | 02/23/07      | 3974.60                 | DRY?             |                | -             | -                               |
| MW - 3      | 03/14/07      | 3974.60                 | 52.20            | 53.73          | 1.53          | 3922.17                         |
| MW - 3      | 03/26/07      | 3974.60                 | 52.16            | 53.99          | 1.83          | 3922.17                         |
| MW - 3      | 04/03/07      | 3974.60                 | 52.14            | 54.06          | 1.92          | 3922.17                         |
| MW - 3      | 04/09/07      | 3974.60                 | 52.13            | 54.03          | 1.90          | 3922.19                         |
| MW - 3      | 04/26/07      | 3974.60                 | 52.13            | 54.06          | 1.93          | 3922.18                         |
| MW - 3      | 04/30/07      | 3974.60                 | 52.16            | 53.96          | 1.80          | 3922.17                         |
| MW - 3      | 05/11/07      | 3974.60                 | 52.13            | 54.00          | 1.87          | 3922.19                         |
| MW - 3      | 05/16/07      | 3974.60                 | 52.16            | 53.90          | 1.74          | 3922.18                         |
| MW - 3      | 05/22/07      | 3974.60                 | 52.14            | 53.93          | 1.79          | 3922.19                         |
| MW - 3      | 05/29/07      | 3974.60                 | 52.13            | 53.94          | 1.81          | 3922.20                         |
| MW - 3      | 06/01/07      | 3974.60                 | 52.12            | 53.96          | 1.84          | 3922.20                         |
| MW - 3      | 06/08/07      | 3974.60                 | 52.13            | 53.95          | 1.82          | 3922.20                         |
| MW - 3      | 06/11/07      | 3974.60                 | 52.18            | 53.80          | 1.62          | 3922.18                         |
| MW - 3      | 06/20/07      | 3974.60                 | 52.13            | 53.90          | 1.77          | 3922.20                         |
| MW - 3      | 07/10/07      | 3974.60                 | 52.12            | 53.90          | 1.78          | 3922.21                         |
| MW - 3      | 07/20/07      | 3974.60                 | 52.12            | 53.90          | 1.78          | 3922.21                         |
| MW - 3      | 07/25/07      | 3974.60                 | 52.12            | 53.84          | 1.72          | 3922.22                         |
| MW - 3      | 08/01/07      | 3974.60                 | 52.11            | 53.81          | 1.70          | 3922.24                         |
| MW - 3      | 08/10/07      | 3974.60                 | 52.12            | 53.86          | 1.74          | 3922.22                         |
| MW - 3      | 08/15/07      | 3974.60                 | 52.12            | 53.77          | 1.65          | 3922.23                         |
| MW - 3      | 08/30/07      | 3974.60                 | 52.12            | 53.83          | 1.71          | 3922.22                         |
| MW - 3      | 08/31/07      | 3974.60                 | 52.12            | 53.83          | 1.71          | 3922.22                         |
| MW - 3      | 09/10/07      | 3974.60                 | 52.11            | 53.81          | 1.70          | 3922.24                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 3         | 09/19/07         | 3974.60                       | 52.11               | 53.79             | 1.68             | 3922.24                               |
| MW - 3         | 10/01/07         | 3974.60                       | 52.22               | 53.36             | 1.14             | 3922.21                               |
| MW - 3         | 10/19/07         | 3974.60                       | 52.14               | 53.59             | 1.45             | 3922.24                               |
| MW - 3         | 11/12/07         | 3974.60                       | 52.15               | 53.52             | 1.37             | 3922.24                               |
| MW - 3         | 12/13/07         | 3974.60                       | 52.08               | 53.72             | 1.64             | 3922.27                               |
| MW - 3         | 03/07/08         | 3974.60                       | 52.06               | 53.62             | 1.56             | 3922.31                               |
| MW - 3         | 05/29/08         | 3974.60                       | 52.04               | 53.41             | 1.37             | 3922.35                               |
| MW - 3         | 06/02/08         | 3974.60                       | 52.04               | 53.35             | 1.31             | 3922.36                               |
| MW - 3         | 06/03/08         | 3974.60                       | 52.04               | 53.35             | 1.31             | 3922.36                               |
| MW - 3         | 08/02/08         | 3974.60                       | 52.05               | 53.45             | 1.40             | 3922.34                               |
| MW - 3         | 09/03/08         | 3974.60                       | 52.01               | 53.42             | 1.41             | 3922.38                               |
| MW - 3         | 09/19/08         | 3974.60                       | 52.13               | 53.38             | 1.25             | 3922.28                               |
| MW - 3         | 09/26/08         | 3974.60                       | 52.08               | 53.38             | 1.30             | 3922.33                               |
| MW - 3         | 10/10/08         | 3974.60                       | 52.01               | 53.34             | 1.33             | 3922.39                               |
| MW - 3         | 10/17/08         | 3974.60                       | 52.04               | 53.32             | 1.28             | 3922.37                               |
| MW - 3         | 10/21/08         | 3974.60                       | 52.06               | 53.33             | 1.27             | 3922.35                               |
| MW - 3         | 10/30/08         | 3974.60                       | 52.03               | 53.30             | 1.27             | 3922.38                               |
| MW - 3         | 11/04/08         | 3974.60                       | 52.03               | 53.26             | 1.23             | 3922.39                               |
| MW - 3         | 11/18/08         | 3974.60                       | 52.03               | 53.30             | 1.27             | 3922.38                               |
| MW - 3         | 11/25/08         | 3974.60                       | 52.06               | 53.33             | 1.27             | 3922.35                               |
| MW - 3         | 12/10/08         | 3974.60                       | 52.04               | 53.29             | 1.25             | 3922.37                               |
| MW - 3         | 12/18/08         | 3974.60                       | 52.02               | 53.31             | 1.29             | 3922.39                               |
| MW - 3         | 01/06/09         | 3974.60                       | 52.00               | 53.29             | 1.29             | 3922.41                               |
| MW - 3         | 01/14/09         | 3974.60                       | 52.03               | 53.31             | 1.28             | 3922.38                               |
| MW - 3         | 01/21/09         | 3974.60                       | 52.03               | 53.25             | 1.22             | 3922.39                               |
| MW - 3         | 01/22/09         | 3974.60                       | 52.02               | 53.02             | 1.00             | 3922.43                               |
| MW - 3         | 01/30/09         | 3974.60                       | 52.04               | 53.27             | 1.23             | 3922.38                               |
| MW - 3         | 02/03/09         | 3974.60                       | 52.03               | 53.20             | 1.17             | 3922.39                               |
| MW - 3         | 02/12/09         | 3974.60                       | 52.02               | 53.20             | 1.18             | 3922.40                               |
| MW - 3         | 02/19/09         | 3974.60                       | 52.02               | 53.17             | 1.15             | 3922.41                               |
| MW - 3         | 03/04/09         | 3974.60                       | 52.05               | 53.03             | 0.98             | 3922.40                               |
| MW - 3         | 03/06/09         | 3974.60                       | 52.01               | 53.05             | 1.04             | 3922.43                               |
| MW - 3         | 03/11/09         | 3974.60                       | 52.04               | 53.19             | 1.15             | 3922.39                               |
| MW - 3         | 03/16/09         | 3974.60                       | 52.08               | 53.06             | 0.98             | 3922.37                               |
| MW - 3         | 03/19/09         | 3974.60                       | 52.03               | 53.19             | 1.16             | 3922.40                               |
| MW - 3         | 03/24/09         | 3974.60                       | 51.99               | 52.92             | 0.93             | 3922.47                               |
| MW - 3         | 04/03/09         | 3974.60                       | 51.58               | 52.70             | 1.12             | 3922.85                               |
| MW - 3         | 04/15/09         | 3974.60                       | 52.01               | 53.10             | 1.09             | 3922.43                               |
| MW - 3         | 04/17/09         | 3974.60                       | 52.07               | 53.04             | 0.97             | 3922.38                               |
| MW - 3         | 04/22/09         | 3974.60                       | 51.97               | 53.06             | 1.09             | 3922.47                               |
| MW - 3         | 04/29/09         | 3974.60                       | 52.06               | 53.14             | 1.08             | 3922.38                               |
| MW - 3         | 05/20/09         | 3974.60                       | 52.00               | 53.09             | 1.09             | 3922.44                               |
| MW - 3         | 05/20/09         | 3974.60                       | 52.00               | 53.09             | 1.09             | 3922.44                               |
| MW - 3         | 06/09/09         | 3974.60                       | 51.99               | 53.14             | 1.15             | 3922.44                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 3         | 06/17/09         | 3974.60                       | 52.00               | 53.12             | 1.12             | 3922.43                               |
| MW - 3         | 06/23/09         | 3974.60                       | 51.95               | 53.08             | 1.13             | 3922.48                               |
| MW - 3         | 07/01/09         | 3974.60                       | 52.00               | 53.16             | 1.16             | 3922.43                               |
| MW - 3         | 07/08/09         | 3974.60                       | 52.02               | 53.14             | 1.12             | 3922.41                               |
| MW - 3         | 07/15/09         | 3974.60                       | 52.00               | 53.08             | 1.08             | 3922.44                               |
| MW - 3         | 07/17/09         | 3974.60                       | 52.04               | 53.05             | 1.01             | 3922.41                               |
| MW - 3         | 07/23/09         | 3974.60                       | 52.02               | 53.12             | 1.10             | 3922.42                               |
| MW - 3         | 07/24/09         | 3974.60                       | 52.05               | 52.87             | 0.82             | 3922.43                               |
| MW - 3         | 07/30/09         | 3974.60                       | 52.08               | 53.19             | 1.11             | 3922.35                               |
| MW - 3         | 08/04/09         | 3974.60                       | 52.00               | 53.02             | 1.02             | 3922.45                               |
| MW - 3         | 08/12/09         | 3974.60                       | 52.02               | 53.08             | 1.06             | 3922.42                               |
| MW - 3         | 08/20/09         | 3974.60                       | 52.00               | 53.08             | 1.08             | 3922.44                               |
| MW - 3         | 08/26/09         | 3974.60                       | 51.98               | 52.73             | 0.75             | 3922.51                               |
| MW - 3         | 09/02/09         | 3974.60                       | 51.99               | 53.11             | 1.12             | 3922.44                               |
| MW - 3         | 09/09/09         | 3974.60                       | 52.02               | 53.11             | 1.09             | 3922.42                               |
| MW - 3         | 09/14/09         | 3974.60                       | 52.01               | 53.06             | 1.05             | 3922.43                               |
| MW - 3         | 09/21/09         | 3974.60                       | 52.01               | 53.10             | 1.09             | 3922.43                               |
| MW - 3         | 10/01/09         | 3974.60                       | 52.02               | 53.09             | 1.07             | 3922.42                               |
| MW - 3         | 10/08/09         | 3974.60                       | 52.02               | 53.12             | 1.10             | 3922.42                               |
| MW - 3         | 10/08/09         | 3974.60                       | 52.02               | 53.12             | 1.10             | 3922.42                               |
| MW - 3         | 10/14/09         | 3974.60                       | 52.02               | 53.09             | 1.07             | 3922.42                               |
| MW - 3         | 10/21/09         | 3974.60                       | 52.02               | 53.15             | 1.13             | 3922.41                               |
| MW - 3         | 10/28/09         | 3974.60                       | 52.97               | 53.09             | 0.12             | 3921.61                               |
| MW - 3         | 11/04/09         | 3974.60                       | 51.99               | 53.02             | 1.03             | 3922.46                               |
| MW - 3         | 11/11/09         | 3974.60                       | 51.99               | 53.00             | 1.01             | 3922.46                               |
| MW - 3         | 11/18/09         | 3974.60                       | 52.03               | 53.10             | 1.07             | 3922.41                               |
| MW - 3         | 11/25/09         | 3974.60                       | 51.99               | 53.09             | 1.10             | 3922.45                               |
| MW - 3         | 12/02/09         | 3974.60                       | 52.02               | 53.09             | 1.07             | 3922.42                               |
| MW - 3         | 12/10/09         | 3974.60                       | 52.00               | 53.03             | 1.03             | 3922.45                               |
| MW - 3         | 12/17/09         | 3974.60                       | 52.06               | 53.05             | 0.99             | 3922.39                               |
| MW - 3         | 12/21/09         | 3974.60                       | 52.02               | 52.72             | 0.70             | 3922.48                               |
| MW - 3         | 12/30/09         | 3974.60                       | 52.11               | 52.99             | 0.88             | 3922.36                               |
| MW - 3         | 01/07/10         | 3974.60                       | 52.06               | 52.72             | 0.66             | 3922.44                               |
| MW - 3         | 01/18/10         | 3974.60                       | 52.08               | 52.64             | 0.56             | 3922.44                               |
| MW - 3         | 02/02/10         | 3974.60                       | 52.02               | 52.93             | 0.91             | 3922.44                               |
| MW - 3         | 02/11/10         | 3974.60                       | 51.97               | 52.91             | 0.94             | 3922.49                               |
| MW - 3         | 02/18/10         | 3974.60                       | 51.98               | 51.99             | 0.01             | 3922.62                               |
| MW - 3         | 02/25/10         | 3974.60                       | 52.04               | 53.00             | 0.96             | 3922.42                               |
| MW - 3         | 03/02/10         | 3974.60                       | 52.05               | 52.95             | 0.90             | 3922.42                               |
| MW - 3         | 03/04/10         | 3974.60                       | 52.00               | 52.83             | 0.83             | 3922.48                               |
| MW - 3         | 03/10/10         | 3974.60                       | 51.98               | 52.93             | 0.95             | 3922.48                               |
| MW - 3         | 03/12/10         | 3974.60                       | 52.07               | 52.84             | 0.77             | 3922.41                               |
| MW - 3         | 03/15/10         | 3974.60                       | 52.03               | 52.77             | 0.74             | 3922.46                               |
| MW - 3         | 03/18/10         | 3974.60                       | 52.06               | 52.77             | 0.71             | 3922.43                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 3         | 03/22/10         | 3974.60                       | 52.10               | 52.80             | 0.70             | 3922.40                               |
| MW - 3         | 03/24/10         | 3974.60                       | 52.12               | 52.73             | 0.61             | 3922.39                               |
| MW - 3         | 03/30/10         | 3974.60                       | 52.08               | 52.74             | 0.66             | 3922.42                               |
| MW - 3         | 04/07/10         | 3974.60                       | 52.10               | 52.74             | 0.64             | 3922.40                               |
| MW - 3         | 04/12/10         | 3974.60                       | 52.00               | 52.72             | 0.72             | 3922.49                               |
| MW - 3         | 04/16/10         | 3974.60                       | 52.39               | 54.08             | 1.69             | 3921.96                               |
| MW - 3         | 04/20/10         | 3974.60                       | 52.34               | 53.61             | 1.27             | 3922.07                               |
| MW - 3         | 04/27/10         | 3974.60                       | 52.42               | 53.74             | 1.32             | 3921.98                               |
| MW - 3         | 04/30/10         | 3974.60                       | 52.32               | 53.31             | 0.99             | 3922.13                               |
| MW - 3         | 05/12/10         | 3974.60                       | 52.36               | 53.78             | 1.42             | 3922.03                               |
| MW - 3         | 05/14/10         | 3974.60                       | 52.33               | 53.33             | 1.00             | 3922.12                               |
| MW - 3         | 05/17/10         | 3974.60                       | 52.52               | 53.74             | 1.22             | 3921.90                               |
| MW - 3         | 05/20/10         | 3974.60                       | 52.37               | 53.78             | 1.41             | 3922.02                               |
| MW - 3         | 05/25/10         | 3974.60                       | 52.26               | 53.13             | 0.87             | 3922.21                               |
| MW - 3         | 06/01/10         | 3974.60                       | 52.25               | 53.14             | 0.89             | 3922.22                               |
| MW - 3         | 06/09/10         | 3974.60                       | 52.27               | 53.11             | 0.84             | 3922.20                               |
| MW - 3         | 06/16/10         | 3974.60                       | 52.28               | 52.96             | 0.68             | 3922.22                               |
| MW - 3         | 06/28/10         | 3974.60                       | 52.32               | 53.37             | 1.05             | 3922.12                               |
| MW - 3         | 07/09/10         | 3974.60                       | 52.29               | 52.94             | 0.65             | 3922.21                               |
| MW - 3         | 07/23/10         | 3974.60                       | 51.99               | 52.67             | 0.68             | 3922.51                               |
| MW - 3         | 07/29/10         | 3974.60                       | 51.99               | 52.68             | 0.69             | 3922.51                               |
| MW - 3         | 08/05/10         | 3974.60                       | 51.98               | 52.70             | 0.72             | 3922.51                               |
| MW - 3         | 08/12/10         | 3974.60                       | 51.98               | 52.73             | 0.75             | 3922.51                               |
| MW - 3         | 08/16/10         | 3974.60                       | 51.98               | 52.73             | 0.75             | 3922.51                               |
| MW - 3         | 08/18/10         | 3974.60                       | 51.98               | 52.75             | 0.77             | 3922.50                               |
| MW - 3         | 08/26/10         | 3974.60                       | 52.11               | 53.04             | 0.93             | 3922.35                               |
| MW - 3         | 09/02/10         | 3974.60                       | 52.19               | 53.40             | 1.21             | 3922.23                               |
| MW - 3         | 09/09/10         | 3974.60                       | 51.96               | 52.71             | 0.75             | 3922.53                               |
| MW - 3         | 09/30/10         | 3974.60                       | 52.04               | 52.58             | 0.54             | 3922.48                               |
| MW - 3         | 10/07/10         | 3974.60                       | 52.04               | 52.65             | 0.61             | 3922.47                               |
| MW - 3         | 10/14/10         | 3974.60                       | 52.30               | 53.90             | 1.60             | 3922.06                               |
| MW - 3         | 10/21/10         | 3974.60                       | 52.28               | 53.89             | 1.61             | 3922.08                               |
| MW - 3         | 11/04/10         | 3974.60                       | 52.18               | 53.24             | 1.06             | 3922.26                               |
| MW - 3         | 11/10/10         | 3974.60                       | 52.29               | 53.87             | 1.58             | 3922.07                               |
| MW - 3         | 12/01/10         | 3974.60                       | 51.96               | 52.81             | 0.85             | 3922.51                               |
| MW - 3         | 12/08/10         | 3974.60                       | 52.09               | 53.16             | 1.07             | 3922.35                               |
| MW - 3         | 01/26/11         | 3974.60                       | 52.00               | 52.75             | 0.75             | 3922.49                               |
| MW - 3         | 02/28/11         | 3974.60                       | 52.27               | 53.87             | 1.60             | 3922.09                               |
| MW - 3         | 03/04/11         | 3974.60                       | 52.08               | 52.88             | 0.80             | 3922.40                               |
| MW - 3         | 03/09/11         | 3974.60                       | 52.07               | 53.57             | 1.50             | 3922.31                               |
| MW - 3         | 04/28/11         | 3974.60                       | 52.11               | 53.12             | 1.01             | 3922.34                               |
| MW - 3         | 05/04/11         | 3974.60                       | 52.09               | 52.12             | 0.03             | 3922.51                               |
| MW - 3         | 05/11/11         | 3974.60                       | 52.14               | 53.11             | 0.97             | 3922.31                               |
| MW - 3         | 05/12/11         | 3974.60                       | 52.10               | 53.06             | 0.96             | 3922.36                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 3         | 05/18/11         | 3974.60                       | 52.13               | 53.18             | 1.05             | 3922.31                               |
| MW - 3         | 05/23/11         | 3974.60                       | 52.07               | 53.02             | 0.95             | 3922.39                               |
| MW - 3         | 06/08/11         | 3974.60                       | 52.11               | 53.19             | 1.08             | 3922.33                               |
| MW - 3         | 06/16/11         | 3974.60                       | 52.09               | 53.05             | 0.96             | 3922.37                               |
| MW - 3         | 06/22/11         | 3974.60                       | 52.11               | 53.10             | 0.99             | 3922.34                               |
| MW - 3         | 06/30/11         | 3974.60                       | 52.05               | 53.52             | 1.47             | 3922.33                               |
| MW - 3         | 07/06/11         | 3974.60                       | 51.98               | 53.15             | 1.17             | 3922.44                               |
| MW - 3         | 07/13/11         | 3974.60                       | 52.08               | 53.25             | 1.17             | 3922.34                               |
| MW - 3         | 07/15/11         | 3974.60                       | 52.10               | 53.50             | 1.40             | 3922.29                               |
| MW - 3         | 07/19/11         | 3974.60                       | 52.15               | 53.08             | 0.93             | 3922.31                               |
| MW - 3         | 07/21/11         | 3974.60                       | 52.02               | 53.04             | 1.02             | 3922.43                               |
| MW - 3         | 07/26/11         | 3974.60                       | 52.15               | 53.05             | 0.90             | 3922.32                               |
| MW - 3         | 07/28/11         | 3974.60                       | 52.12               | 53.06             | 0.94             | 3922.34                               |
| MW - 3         | 08/02/11         | 3974.60                       | 52.25               | 53.76             | 1.51             | 3922.12                               |
| MW - 3         | 08/09/11         | 3974.60                       | 52.20               | 53.68             | 1.48             | 3922.18                               |
| MW - 3         | 08/12/11         | 3974.60                       | 52.13               | 53.38             | 1.25             | 3922.28                               |
| MW - 3         | 08/15/11         | 3974.60                       | 52.13               | 53.38             | 1.25             | 3922.28                               |
| MW - 3         | 08/16/11         | 3974.60                       | 52.12               | 53.80             | 1.68             | 3922.23                               |
| MW - 3         | 08/19/11         | 3974.60                       | 52.13               | 53.71             | 1.58             | 3922.23                               |
| MW - 3         | 08/23/11         | 3974.60                       | 52.16               | 53.30             | 1.14             | 3922.27                               |
| MW - 3         | 08/26/11         | 3974.60                       | 52.21               | 53.25             | 1.04             | 3922.23                               |
| MW - 3         | 08/30/11         | 3974.60                       | 52.02               | 52.69             | 0.67             | 3922.48                               |
| MW - 3         | 09/01/11         | 3974.60                       | 52.05               | 52.42             | 0.37             | 3922.49                               |
| MW - 3         | 09/08/11         | 3974.60                       | 52.14               | 53.89             | 1.75             | 3922.20                               |
| MW - 3         | 09/13/11         | 3974.60                       | 52.10               | 53.49             | 1.39             | 3922.29                               |
| MW - 3         | 09/15/11         | 3974.60                       | 52.22               | 52.28             | 0.06             | 3922.37                               |
| MW - 3         | 09/22/11         | 3974.60                       | 52.03               | 52.75             | 0.72             | 3922.46                               |
| MW - 3         | 10/06/11         | 3974.60                       | 52.04               | 52.92             | 0.88             | 3922.43                               |
| MW - 3         | 10/11/11         | 3974.60                       | 52.17               | 53.19             | 1.02             | 3922.28                               |
| MW - 3         | 10/13/11         | 3974.60                       | 52.19               | 53.91             | 1.72             | 3922.15                               |
| MW - 3         | 10/26/11         | 3974.60                       | 51.13               | 53.36             | 2.23             | 3923.14                               |
| MW - 3         | 11/22/11         | 3974.60                       | 52.17               | 53.24             | 1.07             | 3922.27                               |
| MW - 3         | 12/02/11         | 3974.60                       | 52.01               | 52.94             | 0.93             | 3922.45                               |
| MW - 3         | 12/29/11         | 3974.60                       | 51.99               | 52.86             | 0.87             | 3922.48                               |
| MW - 3         | 01/26/12         | 3974.60                       | 52.04               | 53.28             | 1.24             | 3922.37                               |
| MW - 3         | 01/31/12         | 3974.60                       | 52.08               | 53.40             | 1.32             | 3922.32                               |
| MW - 3         | 02/15/12         | 3974.60                       | 52.01               | 52.83             | 0.82             | 3922.47                               |
| MW - 3         | 02/28/12         | 3974.60                       | 52.04               | 53.24             | 1.20             | 3922.38                               |
| MW - 3         | 03/20/12         | 3974.60                       | 52.07               | 53.42             | 1.35             | 3922.33                               |
| MW - 3         | 03/27/12         | 3974.60                       | 52.57               | 53.37             | 0.80             | 3921.91                               |
| MW - 3         | 04/10/12         | 3974.60                       | 52.13               | 53.36             | 1.23             | 3922.29                               |
| MW - 3         | 04/19/12         | 3974.60                       | 52.09               | 53.43             | 1.34             | 3922.31                               |
| MW - 3         | 04/26/12         | 3974.60                       | 52.00               | 52.75             | 0.75             | 3922.49                               |
| MW - 3         | 05/08/12         | 3974.60                       | 52.01               | 52.76             | 0.75             | 3922.48                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 3         | 05/15/12         | 3974.60                       | 51.98               | 53.01             | 1.03             | 3922.47                               |
| MW - 3         | 05/17/12         | 3974.60                       | 51.96               | 53.02             | 1.06             | 3922.48                               |
| MW - 3         | 06/05/12         | 3974.60                       | 52.03               | 53.40             | 1.37             | 3922.36                               |
| MW - 3         | 06/21/12         | 3974.60                       | 52.02               | 53.51             | 1.49             | 3922.36                               |
| MW - 3         | 06/28/12         | 3974.60                       | 52.02               | 53.57             | 1.55             | 3922.35                               |
| MW - 3         | 07/17/12         | 3974.60                       | 52.00               | 53.23             | 1.23             | 3922.42                               |
| MW - 3         | 08/01/12         | 3974.60                       | 52.08               | 53.13             | 1.05             | 3922.36                               |
| MW - 3         | 10/02/12         | 3974.60                       | 52.08               | 53.48             | 1.40             | 3922.31                               |
| MW - 3         | 10/09/12         | 3974.60                       | 52.04               | 53.89             | 1.85             | 3922.28                               |
| MW - 3         | 10/16/12         | 3974.60                       | 52.10               | 53.32             | 1.22             | 3922.32                               |
| MW - 3         | 10/25/12         | 3974.60                       | 52.09               | 53.50             | 1.41             | 3922.30                               |
| MW - 3         | 10/30/12         | 3974.60                       | 52.08               | 53.51             | 1.43             | 3922.31                               |
| MW - 3         | 11/29/12         | 3974.60                       | 52.05               | 54.10             | 2.05             | 3922.24                               |
| MW - 3         | 12/14/12         | 3974.60                       | 52.10               | 53.63             | 1.53             | 3922.27                               |
| MW - 3         | 02/11/13         | 3974.60                       | 52.12               | 53.29             | 1.17             | 3922.30                               |
| MW - 3         | 03/18/13         | 3974.60                       | 52.29               | 52.48             | 0.19             | 3922.28                               |
| MW - 3         | 04/11/13         | 3974.60                       | 52.58               | 52.65             | 0.07             | 3922.01                               |
| MW - 3         | 05/06/13         | 3974.60                       | 52.17               | 53.08             | 0.91             | 3922.29                               |
| MW - 3         | 05/29/13         | 3974.60                       | 52.55               | 52.69             | 0.14             | 3922.03                               |
| MW - 3         | 06/26/13         | 3974.60                       | 52.63               | 52.68             | 0.05             | 3921.96                               |
| MW - 3         | 07/31/13         | 3974.60                       | 52.46               | 52.49             | 0.03             | 3922.14                               |
| MW - 3         | 08/06/13         | 3974.60                       | 52.46               | 52.48             | 0.02             | 3922.14                               |
| MW - 3         | 09/30/13         | 3974.60                       | 52.50               | 52.60             | 0.10             | 3922.09                               |
| MW - 3         | 11/18/13         | 3974.60                       | 52.32               | 53.19             | 0.87             | 3922.15                               |
| MW - 3         | 02/04/14         | 3974.60                       | 52.36               | 53.10             | 0.74             | 3922.13                               |
| MW - 3         | 04/28/14         | 3974.60                       | 52.34               | 53.06             | 0.72             | 3922.15                               |
| MW - 3         | 05/28/14         | 3974.60                       | 52.53               | 52.85             | 0.32             | 3922.02                               |
| MW - 3         | 07/30/14         | 3974.60                       | 53.79               | 53.80             | 0.01             | 3920.81                               |
| MW - 3         | 08/23/14         | 3974.60                       | 53.27               | 53.80             | 0.53             | 3921.25                               |
| MW - 3         | 09/10/14         | 3974.60                       | 52.51               | 53.42             | 0.91             | 3921.95                               |
| MW - 3         | 09/23/14         | 3974.60                       | 52.38               | 53.97             | 1.59             | 3921.98                               |
| MW - 3         | 10/31/14         | 3974.60                       | 52.49               | 52.91             | 0.42             | 3922.05                               |
| MW - 3         | 11/18/14         | 3974.60                       | 52.45               | 53.30             | 0.85             | 3922.02                               |
| MW - 3         | 01/05/15         | 3974.60                       | 52.71               | 53.09             | 0.38             | 3921.83                               |
| MW - 3         | 01/09/15         | 3974.60                       | 52.34               | 53.57             | 1.23             | 3922.08                               |
| MW - 3         | 01/14/15         | 3974.60                       | 52.33               | 53.66             | 1.33             | 3922.07                               |
| MW - 3         | 01/21/15         | 3974.60                       | 52.72               | 53.07             | 0.35             | 3921.83                               |
| MW - 3         | 02/19/15         | 3974.60                       | 52.74               | 52.82             | 0.08             | 3921.85                               |
| MW - 3         | 03/09/15         | 3974.60                       | 52.74               | 53.09             | 0.35             | 3921.81                               |
| MW - 3         | 03/11/15         | 3974.60                       | 52.81               | 53.19             | 0.38             | 3921.73                               |
| MW - 3         | 03/31/15         | 3974.60                       | 52.74               | 53.09             | 0.35             | 3921.81                               |
| MW - 3         | 04/09/15         | 3974.60                       | 52.44               | 52.92             | 0.48             | 3922.09                               |
| MW - 3         | 04/15/15         | 3974.60                       | 52.33               | 52.37             | 0.04             | 3922.26                               |
| MW - 3         | 04/22/15         | 3974.60                       | 52.33               | 53.50             | 1.17             | 3922.09                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 3      | 05/12/15      | 3974.60                 | 52.30            | 53.62          | 1.32          | 3922.10                         |
| MW - 3      | 05/26/15      | 3974.60                 | 52.71            | 53.04          | 0.33          | 3921.84                         |
| MW - 3      | 06/01/15      | 3974.60                 | 52.34            | 53.41          | 1.07          | 3922.10                         |
| MW - 3      | 06/04/15      | 3974.60                 | 52.29            | 53.67          | 1.38          | 3922.10                         |
| MW - 3      | 07/27/15      | 3974.60                 | 52.71            | 52.73          | 0.02          | 3921.89                         |
| MW - 3      | 08/18/15      | 3974.60                 | 52.45            | 52.85          | 0.40          | 3922.09                         |
| MW - 3      | 10/08/15      | 3974.60                 | 52.74            | 53.21          | 0.47          | 3921.79                         |
| MW - 3      | 10/21/15      | 3974.60                 | 52.49            | 53.15          | 0.66          | 3922.01                         |
| MW - 3      | 11/23/15      | 3974.60                 | 53.31            | 54.94          | 1.63          | 3921.05                         |
|             |               |                         |                  |                |               |                                 |
| MW - 4      | 03/02/00      | 3974.53                 | 52.58            | 54.30          | 1.72          | 3921.69                         |
| MW - 4      | 04/25/00      | 3974.53                 | 52.59            | 54.38          | 1.79          | 3921.67                         |
| MW - 4      | 09/06/00      | 3974.53                 | 52.44            | 55.11          | 2.67          | 3921.69                         |
| MW - 4      | 11/28/00      | 3974.53                 | 52.48            | 55.25          | 2.77          | 3921.63                         |
| MW - 4      | 02/21/01      | 3974.53                 | 52.38            | 55.15          | 2.77          | 3921.73                         |
| MW - 4      | 05/31/01      | 3974.53                 | 52.43            | 55.22          | 2.79          | 3921.68                         |
| MW - 4      | 08/23/01      | 3974.53                 | 52.38            | 55.24          | 2.86          | 3921.72                         |
| MW - 4      | 11/21/01      | 3974.53                 | 52.37            | 55.15          | 2.78          | 3921.74                         |
| MW - 4      | 02/13/02      | 3974.53                 | 52.42            | 55.21          | 2.79          | 3921.69                         |
| MW - 4      | 06/12/02      | 3974.53                 | 52.31            | 55.44          | 3.13          | 3921.75                         |
| MW - 4      | 08/26/02      | 3974.53                 | 52.33            | 55.50          | 3.17          | 3921.72                         |
| MW - 4      | 11/08/02      | 3974.53                 | 52.94            | 53.18          | 0.24          | 3921.55                         |
| MW - 4      | 11/21/02      | 3974.53                 | 52.61            | 54.63          | 2.02          | 3921.62                         |
| MW - 4      | 12/27/02      | 3974.53                 | 52.53            | 54.86          | 2.33          | 3921.65                         |
| MW - 4      | 01/06/03      | 3974.53                 | 52.74            | 53.93          | 1.19          | 3921.61                         |
| MW - 4      | 01/08/03      | 3974.53                 | 52.77            | 53.81          | 1.04          | 3921.60                         |
| MW - 4      | 01/10/03      | 3974.53                 | 52.86            | 53.31          | 0.45          | 3921.60                         |
| MW - 4      | 01/13/03      | 3974.53                 | 52.87            | 53.26          | 0.39          | 3921.60                         |
| MW - 4      | 02/05/03      | 3974.53                 | 52.91            | 52.99          | 0.08          | 3921.61                         |
| MW - 4      | 02/26/03      | 3974.53                 | 52.72            | 53.86          | 1.14          | 3921.64                         |
| MW - 4      | 03/04/03      | 3974.53                 | 52.70            | 53.86          | 1.16          | 3921.66                         |
| MW - 4      | 03/12/03      | 3974.53                 | 52.78            | 53.69          | 0.91          | 3921.61                         |
| MW - 4      | 03/18/03      | 3974.53                 | 52.91            | 53.30          | 0.39          | 3921.56                         |
| MW - 4      | 03/25/03      | 3974.53                 | 52.85            | 53.32          | 0.47          | 3921.61                         |
| MW - 4      | 03/31/03      | 3974.53                 | 52.82            | 53.41          | 0.59          | 3921.62                         |
| MW - 4      | 04/09/03      | 3974.53                 | 52.81            | 53.33          | 0.52          | 3921.64                         |
| MW - 4      | 04/14/03      | 3974.53                 | 52.79            | 53.48          | 0.69          | 3921.64                         |
| MW - 4      | 05/07/03      | 3974.53                 | 52.50            | 54.57          | 2.07          | 3921.72                         |
| MW - 4      | 05/08/03      | 3974.53                 | 52.58            | 54.67          | 2.09          | 3921.64                         |
| MW - 4      | 05/13/03      | 3974.53                 | 52.57            | 54.66          | 2.09          | 3921.65                         |
| MW - 4      | 05/21/03      | 3974.53                 | 52.58            | 54.71          | 2.13          | 3921.63                         |
| MW - 4      | 05/27/03      | 3974.53                 | 52.73            | 53.62          | 0.89          | 3921.67                         |
| MW - 4      | 05/28/03      | 3974.53                 | 52.82            | 53.65          | 0.83          | 3921.59                         |
| MW - 4      | 06/03/03      | 3974.53                 | 52.68            | 54.35          | 1.67          | 3921.60                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 4         | 06/10/03         | 3974.53                       | 52.82               | 53.60             | 0.78             | 3921.59                               |
| MW - 4         | 07/01/03         | 3974.53                       | 52.91               | 53.66             | 0.75             | 3921.51                               |
| MW - 4         | 07/08/03         | 3974.53                       | 52.77               | 54.30             | 1.53             | 3921.53                               |
| MW - 4         | 07/29/03         | 3974.53                       | 52.57               | 54.38             | 1.81             | 3921.69                               |
| MW - 4         | 08/04/03         | 3974.53                       | 52.85               | 54.17             | 1.32             | 3921.48                               |
| MW - 4         | 08/18/03         | 3974.53                       | 52.84               | 53.39             | 0.55             | 3921.61                               |
| MW - 4         | 08/25/03         | 3974.53                       | 52.85               | 54.86             | 2.01             | 3921.38                               |
| MW - 4         | 10/06/03         | 3974.53                       | 52.91               | 53.17             | 0.26             | 3921.58                               |
| MW - 4         | 10/08/03         | 3974.53                       | 53.12               | 53.98             | 0.86             | 3921.28                               |
| MW - 4         | 10/15/03         | 3974.53                       | 53.14               | 53.88             | 0.74             | 3921.28                               |
| MW - 4         | 11/12/03         | 3974.53                       | 53.14               | 54.94             | 1.80             | 3921.12                               |
| MW - 4         | 11/19/03         | 3974.53                       | 53.10               | 54.58             | 1.48             | 3921.21                               |
| MW - 4         | 12/01/03         | 3974.53                       | 53.29               | 53.70             | 0.41             | 3921.18                               |
| MW - 4         | 12/10/03         | 3974.53                       | 52.96               | 53.50             | 0.54             | 3921.49                               |
| MW - 4         | 02/05/04         | 3974.53                       | 53.32               | 53.78             | 0.46             | 3921.14                               |
| MW - 4         | 02/17/04         | 3974.53                       | 53.87               | 54.28             | 0.41             | 3920.60                               |
| MW - 4         | 02/25/04         | 3974.53                       | 53.28               | 53.80             | 0.52             | 3921.17                               |
| MW - 4         | 03/09/04         | 3974.53                       | 52.84               | 54.59             | 1.75             | 3921.43                               |
| MW - 4         | 03/16/04         | 3974.53                       | 52.85               | 54.56             | 1.71             | 3921.42                               |
| MW - 4         | 03/22/04         | 3974.53                       | 52.84               | 53.14             | 0.30             | 3921.65                               |
| MW - 4         | 04/07/04         | 3974.53                       | 52.90               | 53.37             | 0.47             | 3921.56                               |
| MW - 4         | 04/12/04         | 3974.53                       | 52.83               | 54.74             | 1.91             | 3921.41                               |
| MW - 4         | 04/19/04         | 3974.53                       | 52.87               | 52.99             | 0.12             | 3921.64                               |
| MW - 4         | 05/05/04         | 3974.53                       | 52.82               | 54.83             | 2.01             | 3921.41                               |
| MW - 4         | 05/11/04         | 3974.53                       | 53.00               | 54.74             | 1.74             | 3921.27                               |
| MW - 4         | 06/07/04         | 3974.53                       | 52.58               | 54.57             | 1.99             | 3921.65                               |
| MW - 4         | 06/15/04         | 3974.53                       | 52.60               | 54.49             | 1.89             | 3921.65                               |
| MW - 4         | 06/20/04         | 3974.53                       | 52.60               | 54.49             | 1.89             | 3921.65                               |
| MW - 4         | 06/21/04         | 3974.53                       | 52.56               | 54.55             | 1.99             | 3921.67                               |
| MW - 4         | 06/28/04         | 3974.53                       | 52.57               | 54.51             | 1.94             | 3921.67                               |
| MW - 4         | 07/08/04         | 3974.53                       | 52.55               | 54.53             | 1.98             | 3921.68                               |
| MW - 4         | 07/12/04         | 3974.53                       | 52.54               | 54.52             | 1.98             | 3921.69                               |
| MW - 4         | 08/06/04         | 3974.53                       | 52.58               | 54.51             | 1.93             | 3921.66                               |
| MW - 4         | 08/12/04         | 3974.53                       | 52.60               | 54.59             | 1.99             | 3921.63                               |
| MW - 4         | 08/17/04         | 3974.53                       | 52.64               | 54.72             | 2.08             | 3921.58                               |
| MW - 4         | 08/26/04         | 3974.53                       | 52.60               | 54.79             | 2.19             | 3921.60                               |
| MW - 4         | 09/01/04         | 3974.53                       | 52.67               | 54.40             | 1.73             | 3921.60                               |
| MW - 4         | 09/03/04         | 3974.53                       | 52.67               | 54.45             | 1.78             | 3921.59                               |
| MW - 4         | 09/08/04         | 3974.53                       | 52.66               | 54.63             | 1.97             | 3921.57                               |
| MW - 4         | 09/14/04         | 3974.53                       | 52.69               | 54.46             | 1.77             | 3921.57                               |
| MW - 4         | 09/22/04         | 3974.53                       | 52.81               | 54.39             | 1.58             | 3921.48                               |
| MW - 4         | 10/01/04         | 3974.53                       | 52.67               | 54.62             | 1.95             | 3921.57                               |
| MW - 4         | 10/08/04         | 3974.53                       | 52.69               | 54.44             | 1.75             | 3921.58                               |
| MW - 4         | 10/15/04         | 3974.53                       | 52.60               | 54.30             | 1.70             | 3921.68                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 4      | 10/22/04      | 3974.53                 | 52.62            | 54.56          | 1.94          | 3921.62                         |
| MW - 4      | 11/12/04      | 3974.53                 | 52.68            | 53.69          | 1.01          | 3921.70                         |
| MW - 4      | 11/26/04      | 3974.53                 | 52.65            | 54.55          | 1.90          | 3921.60                         |
| MW - 4      | 12/02/04      | 3974.53                 | 52.70            | 54.50          | 1.80          | 3921.56                         |
| MW - 4      | 12/06/04      | 3974.53                 | 52.77            | 54.21          | 1.44          | 3921.54                         |
| MW - 4      | 12/13/04      | 3974.53                 | 52.72            | 54.40          | 1.68          | 3921.56                         |
| MW - 4      | 12/15/04      | 3974.53                 | 52.72            | 54.40          | 1.68          | 3921.56                         |
| MW - 4      | 12/27/04      | 3974.53                 | 52.65            | 54.47          | 1.82          | 3921.61                         |
| MW - 4      | 01/10/05      | 3974.53                 | 52.14            | 54.40          | 2.26          | 3922.05                         |
| MW - 4      | 01/18/05      | 3974.53                 | 52.59            | 54.15          | 1.56          | 3921.71                         |
| MW - 4      | 01/18/05      | 3974.53                 | 52.68            | 53.51          | 0.83          | 3921.73                         |
| MW - 4      | 01/25/05      | 3974.53                 | 52.54            | 54.10          | 1.56          | 3921.76                         |
| MW - 4      | 01/27/05      | 3974.53                 | 52.55            | 53.90          | 1.35          | 3921.78                         |
| MW - 4      | 02/01/05      | 3974.53                 | 52.56            | 53.93          | 1.37          | 3921.76                         |
| MW - 4      | 02/07/05      | 3974.53                 | 52.50            | 54.01          | 1.51          | 3921.80                         |
| MW - 4      | 02/11/05      | 3974.53                 | 52.50            | 53.98          | 1.48          | 3921.81                         |
| MW - 4      | 02/15/05      | 3974.53                 | 52.53            | 53.96          | 1.43          | 3921.79                         |
| MW - 4      | 02/22/05      | 3974.53                 | 52.47            | 54.10          | 1.63          | 3921.82                         |
| MW - 4      | 02/24/05      | 3974.53                 | 52.50            | 54.15          | 1.65          | 3921.78                         |
| MW - 4      | 03/03/05      | 3974.53                 | 52.46            | 54.13          | 1.67          | 3921.82                         |
| MW - 4      | 03/09/05      | 3974.53                 | 52.46            | 54.92          | 2.46          | 3921.70                         |
| MW - 4      | 03/22/05      | 3974.53                 | 52.45            | 54.05          | 1.60          | 3921.84                         |
| MW - 4      | 03/24/05      | 3974.53                 | 52.45            | 54.05          | 1.60          | 3921.84                         |
| MW - 4      | 03/31/05      | 3974.53                 | 52.47            | 54.03          | 1.56          | 3921.83                         |
| MW - 4      | 06/22/05      | 3974.53                 | 52.36            | 54.10          | 1.74          | 3921.91                         |
| MW - 4      | 07/21/05      | 3974.53                 | 52.89            | 53.64          | 0.75          | 3921.53                         |
| MW - 4      | 08/03/05      | 3974.53                 | 52.33            | 52.80          | 0.47          | 3922.13                         |
| MW - 4      | 08/12/05      | 3974.53                 | 52.32            | 53.40          | 1.08          | 3922.05                         |
| MW - 4      | 08/15/05      | 3974.53                 | 52.35            | 53.60          | 1.25          | 3921.99                         |
| MW - 4      | 08/22/05      | 3974.53                 | 52.34            | 53.66          | 1.32          | 3921.99                         |
| MW - 4      | 08/30/05      | 3974.53                 | 52.32            | 53.70          | 1.38          | 3922.00                         |
| MW - 4      | 09/07/05      | 3974.53                 | 52.32            | 53.92          | 1.60          | 3921.97                         |
| MW - 4      | 09/14/05      | 3974.53                 | 52.30            | 53.68          | 1.38          | 3922.02                         |
| MW - 4      | 09/20/05      | 3974.53                 | 52.33            | 53.59          | 1.26          | 3922.01                         |
| MW - 4      | 09/21/05      | 3974.53                 | 52.33            | 53.69          | 1.36          | 3922.00                         |
| MW - 4      | 09/28/05      | 3974.53                 | 52.30            | 53.70          | 1.40          | 3922.02                         |
| MW - 4      | 10/06/05      | 3974.53                 | 52.27            | 53.85          | 1.58          | 3922.02                         |
| MW - 4      | 10/13/05      | 3974.53                 | 52.28            | 53.81          | 1.53          | 3922.02                         |
| MW - 4      | 10/20/05      | 3974.53                 | 52.30            | 53.75          | 1.45          | 3922.01                         |
| MW - 4      | 10/26/05      | 3974.53                 | 52.28            | 53.75          | 1.47          | 3922.03                         |
| MW - 4      | 11/03/05      | 3974.53                 | 52.25            | 53.75          | 1.50          | 3922.06                         |
| MW - 4      | 11/10/05      | 3974.53                 | 52.24            | 53.75          | 1.51          | 3922.06                         |
| MW - 4      | 11/16/05      | 3974.53                 | 52.27            | 53.72          | 1.45          | 3922.04                         |
| MW - 4      | 11/23/05      | 3974.53                 | 52.30            | 53.68          | 1.38          | 3922.02                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 4         | 11/28/05         | 3974.53                       | 52.23               | 53.75             | 1.52             | 3922.07                               |
| MW - 4         | 12/05/05         | 3974.53                       | 52.28               | 53.65             | 1.37             | 3922.04                               |
| MW - 4         | 12/12/05         | 3974.53                       | 52.27               | 53.68             | 1.41             | 3922.05                               |
| MW - 4         | 12/16/05         | 3974.53                       | 52.40               | 53.04             | 0.64             | 3922.03                               |
| MW - 4         | 12/19/05         | 3974.53                       | 52.30               | 53.60             | 1.30             | 3922.04                               |
| MW - 4         | 12/29/05         | 3974.53                       | 52.25               | 53.71             | 1.46             | 3922.06                               |
| MW - 4         | 01/04/06         | 3974.53                       | 52.38               | 53.70             | 1.32             | 3921.95                               |
| MW - 4         | 01/10/06         | 3974.53                       | 52.25               | 53.70             | 1.45             | 3922.06                               |
| MW - 4         | 01/17/06         | 3974.53                       | 52.26               | 53.65             | 1.39             | 3922.06                               |
| MW - 4         | 01/26/06         | 3974.53                       | 52.23               | 53.63             | 1.40             | 3922.09                               |
| MW - 4         | 01/31/06         | 3974.53                       | 52.25               | 53.60             | 1.35             | 3922.08                               |
| MW - 4         | 02/07/06         | 3974.53                       | 52.25               | 53.56             | 1.31             | 3922.08                               |
| MW - 4         | 02/09/06         | 3974.53                       | 52.27               | 53.65             | 1.38             | 3922.05                               |
| MW - 4         | 02/13/06         | 3974.53                       | 52.29               | 53.55             | 1.26             | 3922.05                               |
| MW - 4         | 02/22/06         | 3974.53                       | 52.25               | 53.71             | 1.46             | 3922.06                               |
| MW - 4         | 02/28/06         | 3974.53                       | 52.29               | 53.68             | 1.39             | 3922.03                               |
| MW - 4         | 03/07/06         | 3974.53                       | 52.30               | 53.63             | 1.33             | 3922.03                               |
| MW - 4         | 03/15/06         | 3974.53                       | 52.23               | 53.55             | 1.32             | 3922.10                               |
| MW - 4         | 03/20/06         | 3974.53                       | 52.22               | 53.46             | 1.24             | 3922.12                               |
| MW - 4         | 03/22/06         | 3974.53                       | 52.52               | 52.54             | 0.02             | 3922.01                               |
| MW - 4         | 03/29/06         | 3974.53                       | 52.25               | 53.32             | 1.07             | 3922.12                               |
| MW - 4         | 04/11/06         | 3974.53                       | 52.22               | 53.39             | 1.17             | 3922.13                               |
| MW - 4         | 04/18/06         | 3974.53                       | 52.22               | 53.40             | 1.18             | 3922.13                               |
| MW - 4         | 04/25/06         | 3974.53                       | 52.29               | 53.14             | 0.85             | 3922.11                               |
| MW - 4         | 05/02/06         | 3974.53                       | 52.22               | 53.34             | 1.12             | 3922.14                               |
| MW - 4         | 05/09/06         | 3974.53                       | 52.21               | 53.30             | 1.09             | 3922.16                               |
| MW - 4         | 05/16/06         | 3974.53                       | 52.23               | 52.31             | 0.08             | 3922.29                               |
| MW - 4         | 05/23/06         | 3974.53                       | 52.23               | 53.29             | 1.06             | 3922.14                               |
| MW - 4         | 05/31/06         | 3974.53                       | 52.20               | 53.36             | 1.16             | 3922.16                               |
| MW - 4         | 06/06/06         | 3974.53                       | 52.22               | 53.26             | 1.04             | 3922.15                               |
| MW - 4         | 06/13/06         | 3974.53                       | 52.23               | 53.29             | 1.06             | 3922.14                               |
| MW - 4         | 06/20/06         | 3974.53                       | 52.20               | 53.28             | 1.08             | 3922.17                               |
| MW - 4         | 06/21/06         | 3974.53                       | 52.30               | 52.90             | 0.60             | 3922.14                               |
| MW - 4         | 07/06/06         | 3974.53                       | 52.21               | 53.30             | 1.09             | 3922.16                               |
| MW - 4         | 07/12/06         | 3974.53                       | 52.23               | 53.17             | 0.94             | 3922.16                               |
| MW - 4         | 07/20/06         | 3974.53                       | 52.23               | 53.12             | 0.89             | 3922.17                               |
| MW - 4         | 07/25/06         | 3974.53                       | 52.25               | 53.11             | 0.86             | 3922.15                               |
| MW - 4         | 08/01/06         | 3974.53                       | 52.24               | 53.15             | 0.91             | 3922.15                               |
| MW - 4         | 08/16/06         | 3974.53                       | 52.33               | 52.81             | 0.48             | 3922.13                               |
| MW - 4         | 08/23/06         | 3974.53                       | 52.27               | 53.00             | 0.73             | 3922.15                               |
| MW - 4         | 08/28/06         | 3974.53                       | 52.27               | 53.00             | 0.73             | 3922.15                               |
| MW - 4         | 09/12/06         | 3974.53                       | 52.25               | 53.06             | 0.81             | 3922.16                               |
| MW - 4         | 09/22/06         | 3974.53                       | 52.25               | 53.15             | 0.90             | 3922.15                               |
| MW - 4         | 09/27/06         | 3974.53                       | 52.27               | 53.04             | 0.77             | 3922.14                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 4         | 10/06/06         | 3974.53                       | 52.21               | 53.24             | 1.03             | 3922.17                               |
| MW - 4         | 10/10/06         | 3974.53                       | 52.24               | 53.16             | 0.92             | 3922.15                               |
| MW - 4         | 10/16/06         | 3974.53                       | 52.23               | 53.30             | 1.07             | 3922.14                               |
| MW - 4         | 10/26/06         | 3974.53                       | 52.21               | 53.20             | 0.99             | 3922.17                               |
| MW - 4         | 11/03/06         | 3974.53                       | 52.22               | 53.18             | 0.96             | 3922.17                               |
| MW - 4         | 11/09/06         | 3974.53                       | 52.20               | 53.15             | 0.95             | 3922.19                               |
| MW - 4         | 11/16/06         | 3974.53                       | 52.22               | 53.18             | 0.96             | 3922.17                               |
| MW - 4         | 11/22/06         | 3974.53                       | 52.22               | 53.11             | 0.89             | 3922.18                               |
| MW - 4         | 12/04/06         | 3974.53                       | 52.21               | 53.12             | 0.91             | 3922.18                               |
| MW - 4         | 12/08/06         | 3974.53                       | 52.21               | 53.17             | 0.96             | 3922.18                               |
| MW - 4         | 12/15/06         | 3974.53                       | 52.19               | 53.12             | 0.93             | 3922.20                               |
| MW - 4         | 01/05/07         | 3974.53                       | 52.18               | 53.18             | 1.00             | 3922.20                               |
| MW - 4         | 01/12/07         | 3974.53                       | 52.20               | 53.13             | 0.93             | 3922.19                               |
| MW - 4         | 01/18/07         | 3974.53                       | 52.20               | 53.14             | 0.94             | 3922.19                               |
| MW - 4         | 01/24/07         | 3974.53                       | 52.20               | 53.10             | 0.90             | 3922.20                               |
| MW - 4         | 01/29/07         | 3974.53                       | 52.18               | 53.06             | 0.88             | 3922.22                               |
| MW - 4         | 02/09/07         | 3974.53                       | 52.16               | 53.04             | 0.88             | 3922.24                               |
| MW - 4         | 02/16/07         | 3974.53                       | 52.20               | 53.07             | 0.87             | 3922.20                               |
| MW - 4         | 02/23/07         | 3974.53                       | 52.15               | 53.03             | 0.88             | 3922.25                               |
| MW - 4         | 03/02/07         | 3974.53                       | 52.20               | 53.10             | 0.90             | 3922.20                               |
| MW - 4         | 03/14/07         | 3974.53                       | 52.19               | 52.80             | 0.61             | 3922.25                               |
| MW - 4         | 03/26/07         | 3974.53                       | 52.17               | 52.94             | 0.77             | 3922.24                               |
| MW - 4         | 04/03/07         | 3974.53                       | 52.14               | 52.98             | 0.84             | 3922.26                               |
| MW - 4         | 04/09/07         | 3974.53                       | 52.16               | 52.95             | 0.79             | 3922.25                               |
| MW - 4         | 04/26/07         | 3974.53                       | 52.16               | 52.96             | 0.80             | 3922.25                               |
| MW - 4         | 04/30/07         | 3974.53                       | 52.12               | 52.94             | 0.82             | 3922.29                               |
| MW - 4         | 05/11/07         | 3974.53                       | 52.15               | 52.94             | 0.79             | 3922.26                               |
| MW - 4         | 05/16/07         | 3974.53                       | 52.17               | 52.88             | 0.71             | 3922.25                               |
| MW - 4         | 05/22/07         | 3974.53                       | 52.15               | 52.87             | 0.72             | 3922.27                               |
| MW - 4         | 05/29/07         | 3974.53                       | 52.14               | 52.90             | 0.76             | 3922.28                               |
| MW - 4         | 06/01/07         | 3974.53                       | 52.15               | 52.90             | 0.75             | 3922.27                               |
| MW - 4         | 06/08/07         | 3974.53                       | 52.15               | 52.90             | 0.75             | 3922.27                               |
| MW - 4         | 06/11/07         | 3974.53                       | 52.18               | 52.81             | 0.63             | 3922.26                               |
| MW - 4         | 06/20/07         | 3974.53                       | 52.15               | 52.90             | 0.75             | 3922.27                               |
| MW - 4         | 07/10/07         | 3974.53                       | 52.13               | 52.85             | 0.72             | 3922.29                               |
| MW - 4         | 07/20/07         | 3974.53                       | 52.14               | 52.83             | 0.69             | 3922.29                               |
| MW - 4         | 07/25/07         | 3974.53                       | 52.14               | 52.78             | 0.64             | 3922.29                               |
| MW - 4         | 08/01/07         | 3974.53                       | 52.12               | 52.81             | 0.69             | 3922.31                               |
| MW - 4         | 08/10/07         | 3974.53                       | 52.14               | 52.81             | 0.67             | 3922.29                               |
| MW - 4         | 08/15/07         | 3974.53                       | 52.13               | 52.76             | 0.63             | 3922.31                               |
| MW - 4         | 08/30/07         | 3974.53                       | 52.13               | 52.80             | 0.67             | 3922.30                               |
| MW - 4         | 08/31/07         | 3974.53                       | 52.13               | 52.80             | 0.67             | 3922.30                               |
| MW - 4         | 09/10/07         | 3974.53                       | 52.13               | 52.77             | 0.64             | 3922.30                               |
| MW - 4         | 09/19/07         | 3974.53                       | 52.12               | 52.76             | 0.64             | 3922.31                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 4      | 09/27/07      | 3974.53                 | 52.12            | 52.72          | 0.60          | 3922.32                         |
| MW - 4      | 10/01/07      | 3974.53                 | 52.12            | 52.67          | 0.55          | 3922.33                         |
| MW - 4      | 10/19/07      | 3974.53                 | 52.10            | 52.75          | 0.65          | 3922.33                         |
| MW - 4      | 10/26/07      | 3974.53                 | 52.12            | 52.68          | 0.56          | 3922.33                         |
| MW - 4      | 11/12/07      | 3974.53                 | 52.14            | 52.46          | 0.32          | 3922.34                         |
| MW - 4      | 11/16/07      | 3974.53                 | 52.16            | 52.47          | 0.31          | 3922.32                         |
| MW - 4      | 11/29/07      | 3974.53                 | 59.18            | 59.88          | 0.70          | 3915.25                         |
| MW - 4      | 12/13/07      | 3974.53                 | 52.10            | 52.63          | 0.53          | 3922.35                         |
| MW - 4      | 01/10/08      | 3974.53                 | 52.05            | 52.60          | 0.55          | 3922.40                         |
| MW - 4      | 01/17/08      | 3974.53                 | 52.09            | 52.60          | 0.51          | 3922.36                         |
| MW - 4      | 01/22/08      | 3974.53                 | 52.08            | 52.58          | 0.50          | 3922.38                         |
| MW - 4      | 2/6/08 #1     | 3974.53                 | 52.09            | 52.55          | 0.46          | 3922.37                         |
| MW - 4      | 02/06/08 #2   | 3974.53                 | 52.15            | 52.25          | 0.10          | 3922.37                         |
| MW - 4      | 2/12/08 #1    | 3974.53                 | 52.09            | 52.56          | 0.47          | 3922.37                         |
| MW - 4      | 2/12/08 #2    | 3974.53                 | 52.16            | 52.24          | 0.08          | 3922.36                         |
| MW - 4      | 2/20/08 #1    | 3974.53                 | 52.07            | 52.25          | 0.18          | 3922.43                         |
| MW - 4      | 2/20/08 #2    | 3974.53                 | 52.14            | 52.25          | 0.11          | 3922.37                         |
| MW - 4      | 2/27/08 #1    | 3974.53                 | 52.08            | 52.51          | 0.43          | 3922.39                         |
| MW - 4      | 2/27/08 #2    | 3974.53                 | 52.12            | 52.25          | 0.13          | 3922.39                         |
| MW - 4      | 03/07/08      | 3974.53                 | 52.05            | 52.48          | 0.43          | 3922.42                         |
| MW - 4      | 3/12/2008 #1  | 3974.53                 | 52.05            | 52.48          | 0.43          | 3922.42                         |
| MW - 4      | 3/12/08 #2    | 3974.53                 | 52.11            | 52.21          | 0.10          | 3922.41                         |
| MW - 4      | 3/20/2008 #1  | 3974.53                 | 52.06            | 52.47          | 0.41          | 3922.41                         |
| MW - 4      | 3/20/08 #2    | 3974.53                 | 52.11            | 52.13          | 0.02          | 3922.42                         |
| MW - 4      | 3/23/08 #1    | 3974.53                 | 52.06            | 52.47          | 0.41          | 3922.41                         |
| MW - 4      | 3/23/08 #2    | 3974.53                 | 52.11            | 52.22          | 0.11          | 3922.40                         |
| MW - 4      | 4/2/08 #1     | 3974.53                 | 52.07            | 52.45          | 0.38          | 3922.40                         |
| MW - 4      | 4/2/08 #2     | 3974.53                 | 52.09            | 52.26          | 0.17          | 3922.41                         |
| MW - 4      | 4/9/08 #1     | 3974.53                 | 52.05            | 52.45          | 0.40          | 3922.42                         |
| MW - 4      | 4/9/08 #2     | 3974.53                 | 52.09            | 52.26          | 0.17          | 3922.41                         |
| MW - 4      | 04/16/08      | 3974.53                 | 52.06            | 52.42          | 0.36          | 3922.42                         |
| MW - 4      | 04/23/08      | 3974.53                 | 52.05            | 52.45          | 0.40          | 3922.42                         |
| MW - 4      | 04/30/08      | 3974.53                 | 52.05            | 52.41          | 0.36          | 3922.43                         |
| MW - 4      | 05/29/08      | 3974.53                 | 52.05            | 52.38          | 0.33          | 3922.43                         |
| MW - 4      | 06/02/08      | 3974.53                 | 52.03            | 52.35          | 0.32          | 3922.45                         |
| MW - 4      | 06/03/08      | 3974.53                 | 52.03            | 52.35          | 0.32          | 3922.45                         |
| MW - 4      | 06/11/08      | 3974.53                 | 52.03            | 52.38          | 0.35          | 3922.45                         |
| MW - 4      | 06/18/08      | 3974.53                 | 52.04            | 52.38          | 0.34          | 3922.44                         |
| MW - 4      | 06/23/08      | 3974.53                 | 52.03            | 52.36          | 0.33          | 3922.45                         |
| MW - 4      | 07/01/08      | 3974.53                 | 52.05            | 52.38          | 0.33          | 3922.43                         |
| MW - 4      | 07/09/08      | 3974.53                 | 52.05            | 52.39          | 0.34          | 3922.43                         |
| MW - 4      | 07/15/08      | 3974.53                 | 52.03            | 52.37          | 0.34          | 3922.45                         |
| MW - 4      | 07/22/08      | 3974.53                 | 52.03            | 52.35          | 0.32          | 3922.45                         |
| MW - 4      | 08/02/08      | 3974.53                 | 52.02            | 52.38          | 0.36          | 3922.46                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 4      | 08/13/08      | 3974.53                 | 52.02            | 52.55          | 0.53          | 3922.43                         |
| MW - 4      | 09/03/08      | 3974.53                 | 52.02            | 52.38          | 0.36          | 3922.46                         |
| MW - 4      | 09/11/08      | 3974.53                 | 52.03            | 52.38          | 0.35          | 3922.45                         |
| MW - 4      | 09/19/08      | 3974.53                 | 52.01            | 52.33          | 0.32          | 3922.47                         |
| MW - 4      | 09/26/08      | 3974.53                 | 52.02            | 52.33          | 0.31          | 3922.46                         |
| MW - 4      | 10/10/08      | 3974.53                 | 52.02            | 52.33          | 0.31          | 3922.46                         |
| MW - 4      | 10/17/08      | 3974.53                 | 52.02            | 52.29          | 0.27          | 3922.47                         |
| MW - 4      | 10/21/08      | 3974.53                 | 52.04            | 52.30          | 0.26          | 3922.45                         |
| MW - 4      | 10/30/08      | 3974.53                 | 52.02            | 52.30          | 0.28          | 3922.47                         |
| MW - 4      | 11/04/08      | 3974.53                 | 52.02            | 52.32          | 0.30          | 3922.47                         |
| MW - 4      | 11/18/08      | 3974.53                 | 52.04            | 52.30          | 0.26          | 3922.45                         |
| MW - 4      | 11/25/08      | 3974.53                 | 52.05            | 52.29          | 0.24          | 3922.44                         |
| MW - 4      | 12/10/08      | 3974.53                 | 52.03            | 52.32          | 0.29          | 3922.46                         |
| MW - 4      | 12/18/08      | 3974.53                 | 52.03            | 52.30          | 0.27          | 3922.46                         |
| MW - 4      | 01/06/09      | 3974.53                 | 52.03            | 52.35          | 0.32          | 3922.45                         |
| MW - 4      | 01/14/09      | 3974.53                 | 52.09            | 52.29          | 0.20          | 3922.41                         |
| MW - 4      | 01/21/09      | 3974.53                 | 52.08            | 52.25          | 0.17          | 3922.42                         |
| MW - 4      | 01/22/09      | 3974.53                 | 52.03            | 53.33          | 1.30          | 3922.31                         |
| MW - 4      | 01/30/09      | 3974.53                 | 52.01            | 52.25          | 0.24          | 3922.48                         |
| MW - 4      | 02/03/09      | 3974.53                 | 52.00            | 52.25          | 0.25          | 3922.49                         |
| MW - 4      | 02/12/09      | 3974.53                 | 51.99            | 52.30          | 0.31          | 3922.49                         |
| MW - 4      | 02/19/09      | 3974.53                 | 52.00            | 52.29          | 0.29          | 3922.49                         |
| MW - 4      | 03/04/09      | 3974.53                 | 52.07            | 52.33          | 0.26          | 3922.42                         |
| MW - 4      | 03/06/09      | 3974.53                 | 52.01            | 52.28          | 0.27          | 3922.48                         |
| MW - 4      | 03/11/09      | 3974.53                 | 52.02            | 52.28          | 0.26          | 3922.47                         |
| MW - 4      | 03/16/09      | 3974.53                 | 52.11            | 52.35          | 0.24          | 3922.38                         |
| MW - 4      | 03/19/09      | 3974.53                 | 52.01            | 52.26          | 0.25          | 3922.48                         |
| MW - 4      | 03/24/09      | 3974.53                 | 51.98            | 52.05          | 0.07          | 3922.54                         |
| MW - 4      | 04/03/09      | 3974.53                 | 51.99            | 52.20          | 0.21          | 3922.51                         |
| MW - 4      | 04/15/09      | 3974.53                 | 52.02            | 52.12          | 0.10          | 3922.50                         |
| MW - 4      | 04/17/09      | 3974.53                 | 52.03            | 52.11          | 0.08          | 3922.49                         |
| MW - 4      | 04/21/09      | 3974.53                 | 51.96            | 52.19          | 0.23          | 3922.54                         |
| MW - 4      | 04/29/09      | 3974.53                 | 52.01            | 52.12          | 0.11          | 3922.50                         |
| MW - 4      | 05/20/09      | 3974.53                 | 51.99            | 52.11          | 0.12          | 3922.52                         |
| MW - 4      | 05/20/09      | 3974.53                 | 51.99            | 52.11          | 0.12          | 3922.52                         |
| MW - 4      | 06/09/09      | 3974.53                 | 51.98            | 52.11          | 0.13          | 3922.53                         |
| MW - 4      | 06/17/09      | 3974.53                 | 51.98            | 52.12          | 0.14          | 3922.53                         |
| MW - 4      | 06/23/09      | 3974.53                 | 51.95            | 52.17          | 0.22          | 3922.55                         |
| MW - 4      | 07/01/09      | 3974.53                 | 51.98            | 52.11          | 0.13          | 3922.53                         |
| MW - 4      | 07/08/09      | 3974.53                 | sheen            | 52.12          | 0.00          | 3922.41                         |
| MW - 4      | 07/15/09      | 3974.53                 | sheen            | 52.02          | 0.00          | 3922.51                         |
| MW - 4      | 07/17/09      | 3974.53                 | sheen            | 52.05          | 0.00          | 3922.48                         |
| MW - 4      | 07/23/09      | 3974.53                 | 52.00            | 52.11          | 0.11          | 3922.51                         |
| MW - 4      | 07/24/09      | 3974.53                 | 52.00            | 52.10          | 0.10          | 3922.52                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 4         | 07/30/09         | 3974.53                       | 52.00               | 52.14             | 0.14             | 3922.51                               |
| MW - 4         | 08/04/09         | 3974.53                       | 51.98               | 52.10             | 0.12             | 3922.53                               |
| MW - 4         | 08/12/09         | 3974.53                       | 51.98               | 52.12             | 0.14             | 3922.53                               |
| MW - 4         | 08/20/09         | 3974.53                       | 51.99               | 52.10             | 0.11             | 3922.52                               |
| MW - 4         | 08/26/09         | 3974.53                       | sheen               | 52.13             | 0.00             | 3922.40                               |
| MW - 4         | 09/02/09         | 3974.53                       | sheen               | 52.01             | 0.00             | 3922.52                               |
| MW - 4         | 09/09/09         | 3974.53                       | sheen               | 52.02             | 0.00             | 3922.51                               |
| MW - 4         | 09/14/09         | 3974.53                       | sheen               | 52.02             | 0.00             | 3922.51                               |
| MW - 4         | 09/21/09         | 3974.53                       | sheen               | 52.03             | 0.00             | 3922.50                               |
| MW - 4         | 10/01/09         | 3974.53                       | sheen               | 52.04             | 0.00             | 3922.49                               |
| MW - 4         | 10/08/09         | 3974.53                       | sheen               | 52.04             | 0.00             | 3922.49                               |
| MW - 4         | 10/14/09         | 3974.53                       | sheen               | 52.03             | 0.00             | 3922.50                               |
| MW - 4         | 10/21/09         | 3974.53                       | sheen               | 52.05             | 0.00             | 3922.48                               |
| MW - 4         | 10/28/09         | 3974.53                       | sheen               | 52.02             | 0.00             | 3922.51                               |
| MW - 4         | 11/04/09         | 3974.53                       | sheen               | 52.01             | 0.00             | 3922.52                               |
| MW - 4         | 11/11/09         | 3974.53                       | sheen               | 52.00             | 0.00             | 3922.53                               |
| MW - 4         | 11/18/09         | 3974.53                       | sheen               | 52.00             | 0.00             | 3922.53                               |
| MW - 4         | 11/25/09         | 3974.53                       | sheen               | 52.01             | 0.00             | 3922.52                               |
| MW - 4         | 12/02/09         | 3974.53                       | sheen               | 52.02             | 0.00             | 3922.51                               |
| MW - 4         | 12/10/09         | 3974.53                       | sheen               | 52.02             | 0.00             | 3922.51                               |
| MW - 4         | 12/17/09         | 3974.53                       | sheen               | 52.06             | 0.00             | 3922.47                               |
| MW - 4         | 12/21/09         | 3974.53                       | sheen               | 51.99             | 0.00             | 3922.54                               |
| MW - 4         | 12/30/09         | 3974.53                       | sheen               | 52.09             | 0.00             | 3922.44                               |
| MW - 4         | 01/07/10         | 3974.53                       | sheen               | 52.00             | 0.00             | 3922.53                               |
| MW - 4         | 01/18/10         | 3974.53                       | sheen               | 52.02             | 0.00             | 3922.51                               |
| MW - 4         | 02/02/10         | 3974.53                       | sheen               | 52.02             | 0.00             | 3922.51                               |
| MW - 4         | 02/11/10         | 3974.53                       | sheen               | 52.01             | 0.00             | 3922.52                               |
| MW - 4         | 02/18/10         | 3974.53                       | sheen               | 51.99             | 0.00             | 3922.54                               |
| MW - 4         | 02/25/10         | 3974.53                       | sheen               | 52.02             | 0.00             | 3922.51                               |
| MW - 4         | 03/02/10         | 3974.53                       | sheen               | 52.09             | 0.00             | 3922.44                               |
| MW - 4         | 03/04/10         | 3974.53                       | sheen               | 51.92             | 0.00             | 3922.61                               |
| MW - 4         | 03/10/10         | 3974.53                       | sheen               | 51.99             | 0.00             | 3922.54                               |
| MW - 4         | 03/12/10         | 3974.53                       | sheen               | 52.05             | 0.00             | 3922.48                               |
| MW - 4         | 03/15/10         | 3974.53                       | sheen               | 51.99             | 0.00             | 3922.54                               |
| MW - 4         | 03/18/10         | 3974.53                       | sheen               | 52.00             | 0.00             | 3922.53                               |
| MW - 4         | 03/22/10         | 3974.53                       | -                   | 52.05             | 0.00             | 3922.48                               |
| MW - 4         | 03/24/10         | 3974.53                       | -                   | 52.08             | 0.00             | 3922.45                               |
| MW - 4         | 03/30/10         | 3974.53                       | sheen               | 52.04             | 0.00             | 3922.49                               |
| MW - 4         | 04/07/10         | 3974.53                       | sheen               | 52.07             | 0.00             | 3922.46                               |
| MW - 4         | 04/12/10         | 3974.53                       | sheen               | 51.98             | 0.00             | 3922.55                               |
| MW - 4         | 04/16/10         | 3974.53                       | sheen               | 52.29             | 0.00             | 3922.24                               |
| MW - 4         | 04/20/10         | 3974.53                       | -                   | 52.18             | 0.00             | 3922.35                               |
| MW - 4         | 04/27/10         | 3974.53                       | sheen               | 52.24             | 0.00             | 3922.29                               |
| MW - 4         | 04/30/10         | 3974.53                       | -                   | 52.17             | 0.00             | 3922.36                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 4         | 05/12/10         | 3974.53                       | sheen               | 52.23             | 0.00             | 3922.30                               |
| MW - 4         | 05/14/10         | 3974.53                       | -                   | 52.18             | 0.00             | 3922.35                               |
| MW - 4         | 05/17/10         | 3974.53                       | -                   | 52.37             | 0.00             | 3922.16                               |
| MW - 4         | 05/20/10         | 3974.53                       | sheen               | 52.25             | 0.00             | 3922.28                               |
| MW - 4         | 05/25/10         | 3974.53                       | sheen               | 52.10             | 0.00             | 3922.43                               |
| MW - 4         | 06/01/10         | 3974.53                       | sheen               | 52.09             | 0.00             | 3922.44                               |
| MW - 4         | 06/09/10         | 3974.53                       | sheen               | 52.07             | 0.00             | 3922.46                               |
| MW - 4         | 06/16/10         | 3974.53                       | sheen               | 52.05             | 0.00             | 3922.48                               |
| MW - 4         | 06/28/10         | 3974.53                       | 52.15               | 52.16             | 0.01             | 3922.38                               |
| MW - 4         | 07/09/10         | 3974.53                       | sheen               | 52.07             | 0.00             | 3922.46                               |
| MW - 4         | 07/14/10         | 3974.53                       | sheen               | 51.96             | 0.00             | 3922.57                               |
| MW - 4         | 07/23/10         | 3974.53                       | sheen               | 51.95             | 0.00             | 3922.58                               |
| MW - 4         | 07/29/10         | 3974.53                       | sheen               | 51.94             | 0.00             | 3922.59                               |
| MW - 4         | 08/05/10         | 3974.53                       | sheen               | 51.95             | 0.00             | 3922.58                               |
| MW - 4         | 08/12/10         | 3974.53                       | sheen               | 51.97             | 0.00             | 3922.56                               |
| MW - 4         | 08/16/10         | 3974.53                       | sheen               | 51.97             | 0.00             | 3922.56                               |
| MW - 4         | 08/18/10         | 3974.53                       | sheen               | 51.95             | 0.00             | 3922.58                               |
| MW - 4         | 08/25/10         | 3974.53                       | sheen               | 52.03             | 0.00             | 3922.50                               |
| MW - 4         | 09/09/10         | 3974.53                       | sheen               | 51.95             | 0.00             | 3922.58                               |
| MW - 4         | 09/30/10         | 3974.53                       | sheen               | 51.95             | 0.00             | 3922.58                               |
| MW - 4         | 10/07/10         | 3974.53                       | sheen               | 52.00             | 0.00             | 3922.53                               |
| MW - 4         | 10/14/10         | 3974.53                       | sheen               | 52.19             | 0.00             | 3922.34                               |
| MW - 4         | 10/21/10         | 3974.53                       | sheen               | 52.21             | 0.00             | 3922.32                               |
| MW - 4         | 11/04/10         | 3974.53                       | sheen               | 52.02             | 0.00             | 3922.51                               |
| MW - 4         | 11/10/10         | 3974.53                       | sheen               | 52.27             | 0.00             | 3922.26                               |
| MW - 4         | 12/01/10         | 3974.53                       | sheen               | 51.99             | 0.00             | 3922.54                               |
| MW - 4         | 12/08/10         | 3974.53                       | sheen               | 52.13             | 0.00             | 3922.40                               |
| MW - 4         | 01/26/11         | 3974.53                       | -                   | 51.99             | 0.00             | 3922.54                               |
| MW - 4         | 02/28/11         | 3974.53                       | -                   | 52.24             | 0.00             | 3922.29                               |
| MW - 4         | 03/04/11         | 3974.53                       | -                   | 52.00             | 0.00             | 3922.53                               |
| MW - 4         | 03/09/11         | 3974.53                       | 52.09               | 52.11             | 0.02             | 3922.44                               |
| MW - 4         | 04/28/11         | 3974.53                       | -                   | 52.03             | 0.00             | 3922.50                               |
| MW - 4         | 05/04/11         | 3974.53                       | -                   | 52.02             | 0.00             | 3922.51                               |
| MW - 4         | 05/11/11         | 3974.53                       | -                   | 52.10             | 0.00             | 3922.43                               |
| MW - 4         | 05/12/11         | 3974.53                       | -                   | 51.97             | 0.00             | 3922.56                               |
| MW - 4         | 05/18/11         | 3974.53                       | -                   | 52.02             | 0.00             | 3922.51                               |
| MW - 4         | 05/23/11         | 3974.53                       | -                   | 52.07             | 0.00             | 3922.46                               |
| MW - 4         | 06/08/11         | 3974.53                       | -                   | 52.07             | 0.00             | 3922.46                               |
| MW - 4         | 06/16/11         | 3974.53                       | -                   | 52.05             | 0.00             | 3922.48                               |
| MW - 4         | 06/22/11         | 3974.53                       | -                   | 52.03             | 0.00             | 3922.50                               |
| MW - 4         | 06/30/11         | 3974.53                       | -                   | 52.02             | 0.00             | 3922.51                               |
| MW - 4         | 07/06/11         | 3974.53                       | -                   | 51.97             | 0.00             | 3922.56                               |
| MW - 4         | 07/13/11         | 3974.53                       | -                   | 52.14             | 0.00             | 3922.39                               |
| MW - 4         | 07/15/11         | 3974.53                       | -                   | 52.02             | 0.00             | 3922.51                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 4      | 07/19/11      | 3974.53                 | -                | 52.01          | 0.00          | 3922.52                         |
| MW - 4      | 07/21/11      | 3974.53                 | -                | 51.96          | 0.00          | 3922.57                         |
| MW - 4      | 07/26/11      | 3974.53                 | -                | 51.98          | 0.00          | 3922.55                         |
| MW - 4      | 07/28/11      | 3974.53                 | -                | 51.95          | 0.00          | 3922.58                         |
| MW - 4      | 08/02/11      | 3974.53                 | -                | 52.12          | 0.00          | 3922.41                         |
| MW - 4      | 08/09/11      | 3974.53                 | -                | 51.93          | 0.00          | 3922.60                         |
| MW - 4      | 08/12/11      | 3974.53                 | -                | 51.99          | 0.00          | 3922.54                         |
| MW - 4      | 08/15/11      | 3974.53                 | -                | 51.99          | 0.00          | 3922.54                         |
| MW - 4      | 08/16/11      | 3974.53                 | -                | 52.10          | 0.00          | 3922.43                         |
| MW - 4      | 08/19/11      | 3974.53                 | -                | 52.12          | 0.00          | 3922.41                         |
| MW - 4      | 08/23/11      | 3974.53                 | -                | 52.09          | 0.00          | 3922.44                         |
| MW - 4      | 08/26/11      | 3974.53                 | -                | 52.12          | 0.00          | 3922.41                         |
| MW - 4      | 08/30/11      | 3974.53                 | -                | 52.06          | 0.00          | 3922.47                         |
| MW - 4      | 09/01/11      | 3974.53                 | -                | 52.09          | 0.00          | 3922.44                         |
| MW - 4      | 09/08/11      | 3974.53                 | -                | 52.14          | 0.00          | 3922.39                         |
| MW - 4      | 09/13/11      | 3974.53                 | -                | 52.09          | 0.00          | 3922.44                         |
| MW - 4      | 09/15/11      | 3974.53                 | -                | 52.14          | 0.00          | 3922.39                         |
| MW - 4      | 09/22/11      | 3974.53                 | -                | 51.98          | 0.00          | 3922.55                         |
| MW - 4      | 10/06/11      | 3974.53                 | -                | 51.98          | 0.00          | 3922.55                         |
| MW - 4      | 10/11/11      | 3974.53                 | -                | 52.06          | 0.00          | 3922.47                         |
| MW - 4      | 10/13/11      | 3974.53                 | -                | 52.16          | 0.00          | 3922.37                         |
| MW - 4      | 10/26/11      | 3974.53                 | -                | 52.09          | 0.00          | 3922.44                         |
| MW - 4      | 11/22/11      | 3974.53                 | -                | 52.12          | 0.00          | 3922.41                         |
| MW - 4      | 12/02/11      | 3974.53                 | -                | 52.03          | 0.00          | 3922.50                         |
| MW - 4      | 12/29/11      | 3974.53                 | -                | 51.98          | 0.00          | 3922.55                         |
| MW - 4      | 01/26/12      | 3974.53                 | -                | 52.06          | 0.00          | 3922.47                         |
| MW - 4      | 01/31/12      | 3974.53                 | -                | 52.72          | 0.00          | 3921.81                         |
| MW - 4      | 02/15/12      | 3974.53                 | -                | 51.97          | 0.00          | 3922.56                         |
| MW - 4      | 02/28/12      | 3974.53                 | -                | 52.02          | 0.00          | 3922.51                         |
| MW - 4      | 03/20/12      | 3974.53                 | 52.03            | 52.11          | 0.08          | 3922.49                         |
| MW - 4      | 03/27/12      | 3974.53                 | 52.03            | 52.05          | 0.02          | 3922.50                         |
| MW - 4      | 04/10/12      | 3974.53                 | 52.04            | 52.13          | 0.09          | 3922.48                         |
| MW - 4      | 04/19/12      | 3974.53                 | -                | 52.06          | 0.00          | 3922.47                         |
| MW - 4      | 04/26/12      | 3974.53                 | -                | 51.98          | 0.00          | 3922.55                         |
| MW - 4      | 05/08/12      | 3974.53                 | -                | 51.99          | 0.00          | 3922.54                         |
| MW - 4      | 05/15/12      | 3974.53                 | -                | 51.99          | 0.00          | 3922.54                         |
| MW - 4      | 05/17/12      | 3974.53                 | -                | 51.97          | 0.00          | 3922.56                         |
| MW - 4      | 06/05/12      | 3974.53                 | -                | 52.07          | 0.00          | 3922.46                         |
| MW - 4      | 06/21/12      | 3974.53                 | -                | 52.18          | 0.00          | 3922.35                         |
| MW - 4      | 06/28/12      | 3974.53                 | -                | 52.24          | 0.00          | 3922.29                         |
| MW - 4      | 07/17/12      | 3974.53                 | -                | 53.08          | 0.00          | 3921.45                         |
| MW - 4      | 08/01/12      | 3974.53                 | -                | 52.08          | 0.00          | 3922.45                         |
| MW - 4      | 10/02/12      | 3974.53                 | 52.14            | 52.19          | 0.05          | 3922.38                         |
| MW - 4      | 10/09/12      | 3974.53                 | -                | 52.16          | 0.00          | 3922.37                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 4      | 10/16/12      | 3974.53                 | 52.12            | 52.13          | 0.01          | 3922.41                         |
| MW - 4      | 10/25/12      | 3974.53                 | -                | 52.16          | 0.00          | 3922.37                         |
| MW - 4      | 10/30/12      | 3974.53                 | -                | 52.14          | 0.00          | 3922.39                         |
| MW - 4      | 11/29/12      | 3974.53                 | -                | 52.22          | 0.00          | 3922.31                         |
| MW - 4      | 12/14/12      | 3974.53                 | 52.18            | 52.19          | 0.01          | 3922.35                         |
| MW - 4      | 02/11/13      | 3974.53                 | -                | 52.15          | 0.00          | 3922.38                         |
| MW - 4      | 04/11/13      | 3974.53                 | -                | 52.35          | 0.00          | 3922.18                         |
| MW - 4      | 04/15/13      | 3974.53                 | -                | 52.32          | 0.00          | 3922.21                         |
| MW - 4      | 04/22/13      | 3974.53                 | 52.13            | 52.15          | 0.02          | 3922.40                         |
| MW - 4      | 05/06/13      | 3974.53                 | 52.15            | 52.18          | 0.03          | 3922.38                         |
| MW - 4      | 05/09/13      | 3974.53                 | -                | 52.15          | 0.00          | 3922.38                         |
| MW - 4      | 05/20/13      | 3974.53                 | -                | 52.17          | 0.00          | 3922.36                         |
| MW - 4      | 05/24/13      | 3974.53                 | -                | 52.31          | 0.00          | 3922.22                         |
| MW - 4      | 05/29/13      | 3974.53                 | -                | 52.35          | 0.00          | 3922.18                         |
| MW - 4      | 05/31/13      | 3974.53                 | -                | 52.24          | 0.00          | 3922.29                         |
| MW - 4      | 06/07/13      | 3974.53                 | 52.39            | 52.40          | 0.01          | 3922.14                         |
| MW - 4      | 06/12/13      | 3974.53                 | -                | 52.36          | 0.00          | 3922.17                         |
| MW - 4      | 06/14/13      | 3974.53                 | -                | 52.33          | 0.00          | 3922.20                         |
| MW - 4      | 06/19/13      | 3974.53                 | -                | 52.45          | 0.00          | 3922.08                         |
| MW - 4      | 06/21/13      | 3974.53                 | -                | 52.39          | 0.00          | 3922.14                         |
| MW - 4      | 06/25/13      | 3974.53                 | -                | 52.16          | 0.00          | 3922.37                         |
| MW - 4      | 06/26/13      | 3974.53                 | -                | 52.34          | 0.00          | 3922.19                         |
| MW - 4      | 07/03/13      | 3974.53                 | 52.38            | 52.39          | 0.01          | 3922.15                         |
| MW - 4      | 07/09/13      | 3974.53                 | 52.39            | 52.43          | 0.04          | 3922.13                         |
| MW - 4      | 07/11/13      | 3974.53                 | -                | 52.38          | 0.00          | 3922.15                         |
| MW - 4      | 07/24/13      | 3974.53                 | -                | 52.35          | 0.00          | 3922.18                         |
| MW - 4      | 07/26/13      | 3974.53                 | -                | 52.34          | 0.00          | 3922.19                         |
| MW - 4      | 07/31/13      | 3974.53                 | -                | 52.25          | 0.00          | 3922.28                         |
| MW - 4      | 08/02/13      | 3974.53                 | -                | 52.33          | 0.00          | 3922.20                         |
| MW - 4      | 08/06/13      | 3974.53                 | -                | 52.26          | 0.00          | 3922.27                         |
| MW - 4      | 08/14/13      | 3974.53                 | -                | 52.28          | 0.00          | 3922.25                         |
| MW - 4      | 08/21/13      | 3974.53                 | -                | 52.37          | 0.00          | 3922.16                         |
| MW - 4      | 08/26/13      | 3974.53                 | -                | 52.36          | 0.00          | 3922.17                         |
| MW - 4      | 09/06/13      | 3974.53                 | -                | 52.35          | 0.00          | 3922.18                         |
| MW - 4      | 08/30/13      | 3974.53                 | -                | 52.30          | 0.00          | 3922.23                         |
| MW - 4      | 09/13/13      | 3974.53                 | -                | 52.30          | 0.00          | 3922.23                         |
| MW - 4      | 09/27/13      | 3974.53                 | -                | 52.36          | 0.00          | 3922.17                         |
| MW - 4      | 09/30/13      | 3974.53                 | -                | 52.35          | 0.00          | 3922.18                         |
| MW - 4      | 10/02/13      | 3974.53                 | -                | 52.44          | 0.00          | 3922.09                         |
| MW - 4      | 10/03/13      | 3974.53                 | -                | 52.33          | 0.00          | 3922.20                         |
| MW - 4      | 10/11/13      | 3974.53                 | -                | 52.26          | 0.00          | 3922.27                         |
| MW - 4      | 10/17/13      | 3974.53                 | -                | 52.28          | 0.00          | 3922.25                         |
| MW - 4      | 10/22/13      | 3974.53                 | -                | 52.28          | 0.00          | 3922.25                         |
| MW - 4      | 10/24/13      | 3974.53                 | -                | 52.41          | 0.00          | 3922.12                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 4      | 10/30/13      | 3974.53                 | -                | 52.36          | 0.00          | 3922.17                         |
| MW - 4      | 11/01/13      | 3974.53                 | -                | 52.27          | 0.00          | 3922.26                         |
| MW - 4      | 11/04/13      | 3974.53                 | -                | 52.30          | 0.00          | 3922.23                         |
| MW - 4      | 11/08/13      | 3974.53                 | -                | 52.40          | 0.00          | 3922.13                         |
| MW - 4      | 11/13/13      | 3974.53                 | -                | 52.28          | 0.00          | 3922.25                         |
| MW - 4      | 11/15/13      | 3974.53                 | -                | 52.28          | 0.00          | 3922.25                         |
| MW - 4      | 11/19/13      | 3974.53                 | -                | 52.33          | 0.00          | 3922.20                         |
| MW - 4      | 12/08/13      | 3974.53                 | 52.28            | 52.31          | 0.03          | 3922.25                         |
| MW - 4      | 12/12/13      | 3974.53                 | -                | 52.30          | 0.00          | 3922.23                         |
| MW - 4      | 12/16/13      | 3974.53                 | 52.31            | 52.32          | 0.01          | 3922.22                         |
| MW - 4      | 12/18/13      | 3974.53                 | -                | 52.35          | 0.00          | 3922.18                         |
| MW - 4      | 12/23/13      | 3974.53                 | -                | 52.35          | 0.00          | 3922.18                         |
| MW - 4      | 12/30/13      | 3974.53                 | -                | 52.33          | 0.00          | 3922.20                         |
| MW - 4      | 01/01/14      | 3974.53                 | -                | 52.31          | 0.00          | 3922.22                         |
| MW - 4      | 01/06/14      | 3974.53                 | -                | 52.30          | 0.00          | 3922.23                         |
| MW - 4      | 01/15/14      | 3974.53                 | -                | 52.42          | 0.00          | 3922.11                         |
| MW - 4      | 01/17/14      | 3974.53                 | -                | 52.31          | 0.00          | 3922.22                         |
| MW - 4      | 01/20/14      | 3974.53                 | -                | 52.45          | 0.00          | 3922.08                         |
| MW - 4      | 01/22/14      | 3974.53                 | -                | 52.47          | 0.00          | 3922.06                         |
| MW - 4      | 01/29/14      | 3974.53                 | -                | 52.34          | 0.00          | 3922.19                         |
| MW - 4      | 02/04/14      | 3974.53                 | -                | 52.32          | 0.00          | 3922.21                         |
| MW - 4      | 02/13/14      | 3974.53                 | -                | 52.36          | 0.00          | 3922.17                         |
| MW - 4      | 02/21/14      | 3974.53                 | -                | 52.47          | 0.00          | 3922.06                         |
| MW - 4      | 02/26/14      | 3974.53                 | 52.59            | 53.03          | 0.44          | 3921.87                         |
| MW - 4      | 03/12/14      | 3974.53                 | -                | 52.42          | 0.00          | 3922.11                         |
| MW - 4      | 03/14/14      | 3974.53                 | -                | 52.43          | 0.00          | 3922.10                         |
| MW - 4      | 03/17/14      | 3974.53                 | -                | 52.41          | 0.00          | 3922.12                         |
| MW - 4      | 03/24/14      | 3974.53                 | -                | 52.35          | 0.00          | 3922.18                         |
| MW - 4      | 03/26/14      | 3974.53                 | -                | 52.39          | 0.00          | 3922.14                         |
| MW - 4      | 04/09/14      | 3974.53                 | -                | 51.28          | 0.00          | 3923.25                         |
| MW - 4      | 04/18/14      | 3974.53                 | 52.28            | 52.30          | 0.02          | 3922.25                         |
| MW - 4      | 04/21/14      | 3974.53                 | -                | 52.28          | 0.00          | 3922.25                         |
| MW - 4      | 04/28/14      | 3974.53                 | 52.29            | 52.30          | 0.01          | 3922.24                         |
| MW - 4      | 05/09/14      | 3974.53                 | 52.32            | 52.47          | 0.15          | 3922.19                         |
| MW - 4      | 05/12/14      | 3974.53                 | 52.36            | 52.42          | 0.06          | 3922.16                         |
| MW - 4      | 05/19/14      | 3974.53                 | 52.31            | 52.35          | 0.04          | 3922.21                         |
| MW - 4      | 05/28/14      | 3974.53                 | 52.37            | 52.40          | 0.03          | 3922.16                         |
| MW - 4      | 06/04/14      | 3974.53                 | 52.33            | 52.40          | 0.07          | 3922.19                         |
| MW - 4      | 06/13/14      | 3974.53                 | 52.42            | 52.49          | 0.07          | 3922.10                         |
| MW - 4      | 06/16/14      | 3974.53                 | 52.31            | 52.34          | 0.03          | 3922.22                         |
| MW - 4      | 07/02/14      | 3974.53                 | 52.33            | 52.41          | 0.08          | 3922.19                         |
| MW - 4      | 07/07/14      | 3974.53                 | -                | 52.36          | 0.00          | 3922.17                         |
| MW - 4      | 07/18/14      | 3974.53                 | -                | 52.58          | 0.00          | 3921.95                         |
| MW - 4      | 07/30/14      | 3974.53                 | 52.38            | 52.40          | 0.02          | 3922.15                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 4      | 08/11/14      | 3974.53                 | 52.40            | 52.43          | 0.03          | 3922.13                         |
| MW - 4      | 08/22/14      | 3974.53                 | 52.40            | 52.47          | 0.07          | 3922.12                         |
| MW - 4      | 08/23/14      | 3974.53                 | 52.40            | 52.47          | 0.07          | 3922.12                         |
| MW - 4      | 09/10/14      | 3974.53                 | 52.45            | 52.56          | 0.11          | 3922.06                         |
| MW - 4      | 09/23/14      | 3974.53                 | 52.46            | 52.58          | 0.12          | 3922.05                         |
| MW - 4      | 09/25/14      | 3974.53                 | 52.65            | 52.68          | 0.03          | 3921.88                         |
| MW - 4      | 10/03/14      | 3974.53                 | 52.46            | 52.51          | 0.05          | 3922.06                         |
| MW - 4      | 10/15/14      | 3974.53                 | 52.49            | 52.54          | 0.05          | 3922.03                         |
| MW - 4      | 10/17/14      | 3974.53                 | 52.58            | 52.64          | 0.06          | 3921.94                         |
| MW - 4      | 10/24/14      | 3974.53                 | 52.56            | 52.59          | 0.03          | 3921.97                         |
| MW - 4      | 10/27/14      | 3974.53                 | 52.54            | 52.58          | 0.04          | 3921.98                         |
| MW - 4      | 10/31/14      | 3974.53                 | 52.40            | 52.42          | 0.02          | 3922.13                         |
| MW - 4      | 11/03/14      | 3974.53                 | 52.53            | 52.59          | 0.06          | 3921.99                         |
| MW - 4      | 11/10/14      | 3974.53                 | 52.40            | 52.46          | 0.06          | 3922.12                         |
| MW - 4      | 11/14/14      | 3974.53                 | 52.38            | 52.44          | 0.06          | 3922.14                         |
| MW - 4      | 11/17/14      | 3974.53                 | -                | 52.40          | 0.00          | 3922.13                         |
| MW - 4      | 11/18/14      | 3974.53                 | 52.40            | 52.44          | 0.04          | 3922.12                         |
| MW - 4      | 11/21/14      | 3974.53                 | 52.39            | 52.46          | 0.07          | 3922.13                         |
| MW - 4      | 12/03/14      | 3974.53                 | 52.38            | 52.49          | 0.11          | 3922.13                         |
| MW - 4      | 12/05/14      | 3974.53                 | 52.40            | 52.44          | 0.04          | 3922.12                         |
| MW - 4      | 12/12/14      | 3974.53                 | 52.41            | 52.51          | 0.10          | 3922.11                         |
| MW - 4      | 12/15/14      | 3974.53                 | 52.41            | 52.51          | 0.10          | 3922.11                         |
| MW - 4      | 12/19/14      | 3974.53                 | 51.97            | 52.08          | 0.11          | 3922.54                         |
| MW - 4      | 12/22/14      | 3974.53                 | 51.95            | 52.04          | 0.09          | 3922.57                         |
| MW - 4      | 01/05/15      | 3974.53                 | 51.91            | 52.06          | 0.15          | 3922.60                         |
| MW - 4      | 01/09/15      | 3974.53                 | 52.35            | 52.52          | 0.17          | 3922.15                         |
| MW - 4      | 01/14/15      | 3974.53                 | 52.35            | 52.54          | 0.19          | 3922.15                         |
| MW - 4      | 01/21/15      | 3974.53                 | 51.92            | 52.08          | 0.16          | 3922.59                         |
| MW - 4      | 02/18/15      | 3974.53                 | 52.40            | 52.73          | 0.33          | 3922.08                         |
| MW - 4      | 02/19/15      | 3974.53                 | 52.35            | 52.49          | 0.14          | 3922.16                         |
| MW - 4      | 03/09/15      | 3974.53                 | 51.92            | 52.09          | 0.17          | 3922.58                         |
| MW - 4      | 03/11/15      | 3974.53                 | 52.33            | 52.57          | 0.24          | 3922.16                         |
| MW - 4      | 03/18/15      | 3974.53                 | 52.31            | 52.57          | 0.26          | 3922.18                         |
| MW - 4      | 03/31/15      | 3974.53                 | 51.94            | 52.06          | 0.12          | 3922.57                         |
| MW - 4      | 04/09/15      | 3974.53                 | 52.28            | 52.59          | 0.31          | 3922.20                         |
| MW - 4      | 04/15/15      | 3974.53                 | 52.27            | 52.60          | 0.33          | 3922.21                         |
| MW - 4      | 04/22/15      | 3974.53                 | 52.28            | 52.65          | 0.37          | 3922.19                         |
| MW - 4      | 05/12/15      | 3974.53                 | 52.31            | 52.59          | 0.28          | 3922.18                         |
| MW - 4      | 05/26/15      | 3974.53                 | 51.93            | 52.07          | 0.14          | 3922.58                         |
| MW - 4      | 06/01/15      | 3974.53                 | 52.30            | 52.58          | 0.28          | 3922.19                         |
| MW - 4      | 06/04/15      | 3974.53                 | 52.32            | 52.59          | 0.27          | 3922.17                         |
| MW - 4      | 06/22/15      | 3974.53                 | 52.42            | 52.80          | 0.38          | 3922.05                         |
| MW - 4      | 06/26/15      | 3974.53                 | 52.42            | 52.77          | 0.35          | 3922.06                         |
| MW - 4      | 07/22/15      | 3974.53                 | 52.27            | 52.53          | 0.26          | 3922.22                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 4      | 07/27/15      | 3974.53                 | 52.43            | 52.73          | 0.30          | 3922.06                         |
| MW - 4      | 08/18/15      | 3974.53                 | 52.32            | 52.56          | 0.24          | 3922.17                         |
| MW - 4      | 09/09/15      | 3974.53                 | 52.49            | 52.87          | 0.38          | 3921.98                         |
| MW - 4      | 09/30/15      | 3974.53                 | 52.56            | 53.00          | 0.44          | 3921.90                         |
| MW - 4      | 10/08/15      | 3974.53                 | 52.48            | 52.64          | 0.16          | 3922.03                         |
| MW - 4      | 10/16/15      | 3974.53                 | 52.54            | 52.76          | 0.22          | 3921.96                         |
| MW - 4      | 10/21/15      | 3974.53                 | 52.40            | 52.55          | 0.15          | 3922.11                         |
| MW - 4      | 11/18/15      | 3974.53                 | 52.54            | 52.65          | 0.11          | 3921.97                         |
| MW - 4      | 11/23/15      | 3974.53                 | 52.40            | 52.58          | 0.18          | 3922.10                         |
| MW - 4      | 12/04/15      | 3974.60                 | 52.36            | 52.55          | 0.19          | 3922.21                         |
| MW - 4      | 12/09/15      | 3974.53                 | 52.55            | 52.85          | 0.30          | 3921.94                         |
|             |               |                         |                  |                |               |                                 |
| MW - 5      | 03/02/00      | 3974.28                 | 52.09            | 55.50          | 3.41          | 3921.68                         |
| MW - 5      | 04/25/00      | 3974.28                 | 52.04            | 55.59          | 3.55          | 3921.71                         |
| MW - 5      | 09/06/00      | 3974.28                 | 52.11            | 55.48          | 3.37          | 3921.66                         |
| MW - 5      | 11/28/00      | 3974.28                 | 52.21            | 55.46          | 3.25          | 3921.58                         |
| MW - 5      | 02/21/01      | 3974.28                 | 52.07            | 55.40          | 3.33          | 3921.71                         |
| MW - 5      | 05/31/01      | 3974.28                 | 52.11            | 55.48          | 3.37          | 3921.66                         |
| MW - 5      | 08/23/01      | 3974.28                 | 52.08            | 55.45          | 3.37          | 3921.69                         |
| MW - 5      | 11/21/01      | 3974.28                 | 52.20            | 55.43          | 3.23          | 3921.60                         |
| MW - 5      | 02/13/02      | 3974.28                 | 52.14            | 55.43          | 3.29          | 3921.65                         |
| MW - 5      | 06/12/02      | 3974.28                 | 52.04            | 55.65          | 3.61          | 3921.70                         |
| MW - 5      | 08/26/02      | 3974.28                 | 52.04            | 55.68          | 3.64          | 3921.69                         |
| MW - 5      | 11/08/02      | 3974.28                 | 52.71            | 52.97          | 0.26          | 3921.53                         |
| MW - 5      | 11/21/02      | 3974.28                 | 52.73            | 53.01          | 0.28          | 3921.51                         |
| MW - 5      | 12/27/02      | 3974.28                 | 52.24            | 55.09          | 2.85          | 3921.61                         |
| MW - 5      | 01/06/03      | 3974.28                 | 52.30            | 54.80          | 2.50          | 3921.61                         |
| MW - 5      | 01/08/03      | 3974.28                 | 52.41            | 54.24          | 1.83          | 3921.60                         |
| MW - 5      | 01/10/03      | 3974.28                 | 52.71            | 52.96          | 0.25          | 3921.53                         |
| MW - 5      | 01/13/03      | 3974.28                 | 52.69            | 52.93          | 0.24          | 3921.55                         |
| MW - 5      | 02/05/03      | 3974.28                 | 52.68            | 52.94          | 0.26          | 3921.56                         |
| MW - 5      | 02/26/03      | 3974.28                 | 52.20            | 56.05          | 3.85          | 3921.50                         |
| MW - 5      | 03/04/03      | 3974.28                 | 52.19            | 56.07          | 3.88          | 3921.51                         |
| MW - 5      | 03/12/03      | 3974.28                 | 52.22            | 55.12          | 2.90          | 3921.63                         |
| MW - 5      | 03/18/03      | 3974.28                 | 52.74            | 52.96          | 0.22          | 3921.51                         |
| MW - 5      | 03/25/03      | 3974.28                 | 52.68            | 53.04          | 0.36          | 3921.55                         |
| MW - 5      | 03/31/03      | 3974.28                 | 52.64            | 53.12          | 0.48          | 3921.57                         |
| MW - 5      | 04/09/03      | 3974.28                 | 52.68            | 52.91          | 0.23          | 3921.57                         |
| MW - 5      | 04/14/03      | 3974.28                 | 52.71            | 52.79          | 0.08          | 3921.56                         |
| MW - 5      | 05/07/03      | 3974.28                 | 52.17            | 54.47          | 2.30          | 3921.77                         |
| MW - 5      | 05/08/03      | 3974.28                 | 52.25            | 55.04          | 2.79          | 3921.61                         |
| MW - 5      | 05/13/03      | 3974.28                 | 52.32            | 55.04          | 2.72          | 3921.55                         |
| MW - 5      | 05/21/03      | 3974.27                 | 52.25            | 55.14          | 2.89          | 3921.59                         |
| MW - 5      | 05/27/03      | 3974.27                 | 52.22            | 54.96          | 2.74          | 3921.64                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 5         | 05/28/03         | 3974.27                       | 52.27               | 55.11             | 2.84             | 3921.57                               |
| MW - 5         | 06/03/03         | 3974.27                       | 52.77               | 52.84             | 0.07             | 3921.49                               |
| MW - 5         | 06/10/03         | 3974.27                       | 52.72               | 52.90             | 0.18             | 3921.52                               |
| MW - 5         | 07/01/03         | 3974.27                       | 52.79               | 52.93             | 0.14             | 3921.46                               |
| MW - 5         | 07/08/03         | 3974.27                       | 52.37               | 54.92             | 2.55             | 3921.52                               |
| MW - 5         | 07/29/03         | 3974.27                       | 52.25               | 54.83             | 2.58             | 3921.63                               |
| MW - 5         | 08/04/03         | 3974.27                       | 52.61               | 54.25             | 1.64             | 3921.41                               |
| MW - 5         | 08/18/03         | 3974.27                       | 52.47               | 53.81             | 1.34             | 3921.60                               |
| MW - 5         | 08/25/03         | 3974.27                       | 52.51               | 55.32             | 2.81             | 3921.34                               |
| MW - 5         | 10/01/03         | 3974.27                       | 52.72               | 53.19             | 0.47             | 3921.48                               |
| MW - 5         | 10/06/03         | 3974.27                       | 52.70               | 52.97             | 0.27             | 3921.53                               |
| MW - 5         | 10/08/03         | 3974.27                       | 52.72               | 54.74             | 2.02             | 3921.25                               |
| MW - 5         | 10/15/03         | 3974.27                       | 52.73               | 54.42             | 1.69             | 3921.29                               |
| MW - 5         | 11/12/03         | 3974.27                       | 52.75               | 55.30             | 2.55             | 3921.14                               |
| MW - 5         | 11/19/03         | 3974.27                       | 52.71               | 55.27             | 2.56             | 3921.18                               |
| MW - 5         | 12/01/03         | 3974.27                       | 53.19               | 53.32             | 0.13             | 3921.06                               |
| MW - 5         | 12/10/03         | 3974.27                       | 52.41               | 54.94             | 2.53             | 3921.48                               |
| MW - 5         | 02/05/04         | 3974.27                       | 53.17               | 53.26             | 0.09             | 3921.09                               |
| MW - 5         | 02/17/04         | 3974.27                       | 52.44               | 53.69             | 1.25             | 3921.64                               |
| MW - 5         | 02/25/04         | 3974.27                       | 53.17               | 53.29             | 0.12             | 3921.08                               |
| MW - 5         | 03/09/04         | 3974.27                       | 52.53               | 55.09             | 2.56             | 3921.36                               |
| MW - 5         | 03/16/04         | 3974.27                       | 52.41               | 55.20             | 2.79             | 3921.44                               |
| MW - 5         | 03/22/04         | 3974.27                       | 53.00               | 53.68             | 0.68             | 3921.17                               |
| MW - 5         | 04/07/04         | 3974.27                       | 52.94               | 53.11             | 0.17             | 3921.30                               |
| MW - 5         | 04/12/04         | 3974.27                       | 52.55               | 55.00             | 2.45             | 3921.35                               |
| MW - 5         | 04/19/04         | 3974.27                       | 52.90               | 53.00             | 0.10             | 3921.36                               |
| MW - 5         | 05/05/04         | 3974.27                       | 52.52               | 55.11             | 2.59             | 3921.36                               |
| MW - 5         | 05/11/04         | 3974.27                       | 52.64               | 55.29             | 2.65             | 3921.23                               |
| MW - 5         | 06/07/04         | 3974.27                       | 52.25               | 54.97             | 2.72             | 3921.61                               |
| MW - 5         | 06/15/04         | 3974.27                       | 52.27               | 54.93             | 2.66             | 3921.60                               |
| MW - 5         | 06/20/04         | 3974.27                       | 52.27               | 54.93             | 2.66             | 3921.60                               |
| MW - 5         | 06/21/04         | 3974.27                       | 52.23               | 54.95             | 2.72             | 3921.63                               |
| MW - 5         | 06/28/04         | 3974.27                       | 52.25               | 54.97             | 2.72             | 3921.61                               |
| MW - 5         | 07/08/04         | 3974.27                       | 52.24               | 54.96             | 2.72             | 3921.62                               |
| MW - 5         | 07/12/04         | 3974.27                       | 52.23               | 54.97             | 2.74             | 3921.63                               |
| MW - 5         | 08/12/04         | 3974.27                       | 52.22               | 54.22             | 2.00             | 3921.75                               |
| MW - 5         | 08/17/04         | 3974.27                       | 52.25               | 55.25             | 3.00             | 3921.57                               |
| MW - 5         | 08/26/04         | 3974.27                       | 52.25               | 55.23             | 2.98             | 3921.57                               |
| MW - 5         | 09/01/04         | 3974.27                       | 52.27               | 55.20             | 2.93             | 3921.56                               |
| MW - 5         | 09/03/04         | 3974.27                       | 52.30               | 55.16             | 2.86             | 3921.54                               |
| MW - 5         | 09/08/04         | 3974.27                       | 52.27               | 55.24             | 2.97             | 3921.55                               |
| MW - 5         | 09/14/04         | 3974.27                       | 52.27               | 55.20             | 2.93             | 3921.56                               |
| MW - 5         | 09/22/04         | 3974.27                       | 52.33               | 55.10             | 2.77             | 3921.52                               |
| MW - 5         | 10/01/04         | 3974.27                       | 52.27               | 55.22             | 2.95             | 3921.56                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 5      | 10/08/04      | 3974.27                 | 52.28            | 55.20          | 2.92          | 3921.55                         |
| MW - 5      | 10/15/04      | 3974.27                 | 52.23            | 54.91          | 2.68          | 3921.64                         |
| MW - 5      | 10/22/04      | 3974.27                 | 52.21            | 55.16          | 2.95          | 3921.62                         |
| MW - 5      | 11/12/04      | 3974.27                 | 52.41            | 53.24          | 0.83          | 3921.74                         |
| MW - 5      | 11/26/04      | 3974.27                 | 52.34            | 54.80          | 2.46          | 3921.56                         |
| MW - 5      | 12/02/04      | 3974.27                 | 52.39            | 54.80          | 2.41          | 3921.52                         |
| MW - 5      | 12/06/04      | 3974.27                 | 52.55            | 53.97          | 1.42          | 3921.51                         |
| MW - 5      | 12/13/04      | 3974.27                 | 52.87            | 53.35          | 0.48          | 3921.33                         |
| MW - 5      | 12/15/04      | 3974.27                 | 52.87            | 53.35          | 0.48          | 3921.33                         |
| MW - 5      | 12/27/04      | 3974.27                 | 52.69            | 53.20          | 0.51          | 3921.50                         |
| MW - 5      | 01/10/05      | 3974.27                 | 52.20            | 54.68          | 2.48          | 3921.70                         |
| MW - 5      | 01/18/05      | 3974.27                 | 52.26            | 54.65          | 2.39          | 3921.65                         |
| MW - 5      | 01/18/05      | 3974.27                 | sheen            | 52.40          | 0.00          | 3921.87                         |
| MW - 5      | 01/25/05      | 3974.27                 | 52.17            | 54.70          | 2.53          | 3921.72                         |
| MW - 5      | 01/27/05      | 3974.27                 | 52.18            | 54.57          | 2.39          | 3921.73                         |
| MW - 5      | 02/01/05      | 3974.27                 | 52.14            | 54.71          | 2.57          | 3921.74                         |
| MW - 5      | 02/07/05      | 3974.27                 | 52.10            | 54.67          | 2.57          | 3921.78                         |
| MW - 5      | 02/11/05      | 3974.27                 | 52.11            | 54.65          | 2.54          | 3921.78                         |
| MW - 5      | 02/15/05      | 3974.27                 | 52.09            | 54.63          | 2.54          | 3921.80                         |
| MW - 5      | 02/22/05      | 3974.27                 | 52.10            | 54.60          | 2.50          | 3921.80                         |
| MW - 5      | 02/24/05      | 3974.27                 | 52.08            | 54.58          | 2.50          | 3921.82                         |
| MW - 5      | 03/03/05      | 3974.27                 | 52.02            | 54.89          | 2.87          | 3921.82                         |
| MW - 5      | 03/09/05      | 3974.27                 | 52.03            | 54.89          | 2.86          | 3921.81                         |
| MW - 5      | 03/22/05      | 3974.27                 | 52.05            | 54.25          | 2.20          | 3921.89                         |
| MW - 5      | 03/24/05      | 3974.27                 | 52.05            | 54.25          | 2.20          | 3921.89                         |
| MW - 5      | 03/31/05      | 3974.27                 | 52.08            | 54.21          | 2.13          | 3921.87                         |
| MW - 5      | 06/22/05      | 3974.27                 | 52.02            | 54.80          | 2.78          | 3921.83                         |
| MW - 5      | 07/21/05      | 3974.27                 | 51.94            | 54.57          | 2.63          | 3921.94                         |
| MW - 5      | 08/03/05      | 3974.27                 | 51.97            | 54.44          | 2.47          | 3921.93                         |
| MW - 5      | 08/30/05      | 3974.27                 | 51.96            | 54.45          | 2.49          | 3921.94                         |
| MW - 5      | 09/20/05      | 3974.27                 | 51.94            | 54.39          | 2.45          | 3921.96                         |
| MW - 5      | 09/28/05      | 3974.27                 | 51.92            | 54.39          | 2.47          | 3921.98                         |
| MW - 5      | 10/06/05      | 3974.27                 | 51.86            | 54.64          | 2.78          | 3921.99                         |
| MW - 5      | 10/13/05      | 3974.27                 | 51.89            | 54.63          | 2.74          | 3921.97                         |
| MW - 5      | 10/20/05      | 3974.27                 | 51.89            | 54.60          | 2.71          | 3921.97                         |
| MW - 5      | 10/26/05      | 3974.27                 | 51.88            | 54.89          | 3.01          | 3921.94                         |
| MW - 5      | 11/16/05      | 3974.27                 | 51.86            | 54.58          | 2.72          | 3922.00                         |
| MW - 5      | 11/23/05      | 3974.27                 | 51.93            | 54.55          | 2.62          | 3921.95                         |
| MW - 5      | 12/12/05      | 3974.27                 | 51.83            | 54.54          | 2.71          | 3922.03                         |
| MW - 5      | 12/16/05      | 3974.27                 | 51.99            | 53.20          | 1.21          | 3922.10                         |
| MW - 5      | 12/19/05      | 3974.27                 | 51.89            | 54.80          | 2.91          | 3921.94                         |
| MW - 5      | 12/29/05      | 3974.27                 | 51.94            | 54.57          | 2.63          | 3921.94                         |
| MW - 5      | 01/04/06      | 3974.27                 | 51.99            | 54.50          | 2.51          | 3921.90                         |
| MW - 5      | 01/10/06      | 3974.27                 | 51.90            | 54.52          | 2.62          | 3921.98                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 5      | 01/17/06      | 3974.27                 | 51.85            | 54.50          | 2.65          | 3922.02                         |
| MW - 5      | 01/26/06      | 3974.27                 | 51.83            | 54.47          | 2.64          | 3922.04                         |
| MW - 5      | 01/31/06      | 3974.27                 | 51.86            | 54.51          | 2.65          | 3922.01                         |
| MW - 5      | 02/07/06      | 3974.27                 | 51.83            | 54.45          | 2.62          | 3922.05                         |
| MW - 5      | 02/09/06      | 3974.27                 | 51.86            | 54.40          | 2.54          | 3922.03                         |
| MW - 5      | 02/13/06      | 3974.27                 | 51.89            | 54.49          | 2.60          | 3921.99                         |
| MW - 5      | 02/22/06      | 3974.27                 | 51.81            | 54.45          | 2.64          | 3922.06                         |
| MW - 5      | 02/28/06      | 3974.27                 | 51.83            | 54.44          | 2.61          | 3922.05                         |
| MW - 5      | 03/07/06      | 3974.27                 | 51.89            | 54.40          | 2.51          | 3922.00                         |
| MW - 5      | 03/15/06      | 3974.27                 | 51.81            | 54.40          | 2.59          | 3922.07                         |
| MW - 5      | 03/20/06      | 3974.27                 | 51.77            | 54.34          | 2.57          | 3922.11                         |
| MW - 5      | 03/22/06      | 3974.27                 | 52.12            | 53.31          | 1.19          | 3921.97                         |
| MW - 5      | 03/29/06      | 3974.27                 | 51.79            | 54.30          | 2.51          | 3922.10                         |
| MW - 5      | 04/11/06      | 3974.27                 | 51.76            | 54.30          | 2.54          | 3922.13                         |
| MW - 5      | 04/18/06      | 3974.27                 | 51.76            | 54.31          | 2.55          | 3922.13                         |
| MW - 5      | 04/25/06      | 3974.27                 | 51.84            | 54.25          | 2.41          | 3922.07                         |
| MW - 5      | 05/02/06      | 3974.27                 | 51.76            | 54.33          | 2.57          | 3922.12                         |
| MW - 5      | 05/09/06      | 3974.27                 | 51.76            | 54.33          | 2.57          | 3922.12                         |
| MW - 5      | 05/16/06      | 3974.27                 | 51.78            | 54.30          | 2.52          | 3922.11                         |
| MW - 5      | 05/23/06      | 3974.27                 | 51.76            | 54.28          | 2.52          | 3922.13                         |
| MW - 5      | 05/31/06      | 3974.27                 | 51.76            | 54.30          | 2.54          | 3922.13                         |
| MW - 5      | 06/06/06      | 3974.27                 | 51.76            | 54.34          | 2.58          | 3922.12                         |
| MW - 5      | 06/13/06      | 3974.27                 | 51.77            | 54.26          | 2.49          | 3922.13                         |
| MW - 5      | 06/20/06      | 3974.27                 | 51.76            | 54.27          | 2.51          | 3922.13                         |
| MW - 5      | 06/21/06      | 3974.27                 | 51.82            | 53.96          | 2.14          | 3922.13                         |
| MW - 5      | 07/06/06      | 3974.27                 | 51.75            | 54.21          | 2.46          | 3922.15                         |
| MW - 5      | 07/12/06      | 3974.27                 | 51.81            | 53.91          | 2.10          | 3922.15                         |
| MW - 5      | 07/20/06      | 3974.27                 | 51.82            | 52.16          | 0.34          | 3922.40                         |
| MW - 5      | 07/25/06      | 3974.27                 | 51.87            | 53.84          | 1.97          | 3922.10                         |
| MW - 5      | 08/01/06      | 3974.27                 | 51.81            | 54.02          | 2.21          | 3922.13                         |
| MW - 5      | 08/16/06      | 3974.27                 | 52.13            | 52.70          | 0.57          | 3922.05                         |
| MW - 5      | 08/23/06      | 3974.27                 | 51.89            | 53.53          | 1.64          | 3922.13                         |
| MW - 5      | 08/28/06      | 3974.27                 | 51.86            | 53.75          | 1.89          | 3922.13                         |
| MW - 5      | 09/12/06      | 3974.27                 | 51.84            | 53.80          | 1.96          | 3922.14                         |
| MW - 5      | 09/22/06      | 3974.27                 | 51.84            | 53.80          | 1.96          | 3922.14                         |
| MW - 5      | 09/27/06      | 3974.27                 | 51.81            | 53.90          | 2.09          | 3922.15                         |
| MW - 5      | 10/06/06      | 3974.27                 | 51.82            | 53.84          | 2.02          | 3922.15                         |
| MW - 5      | 10/10/06      | 3974.27                 | 51.90            | 53.86          | 1.96          | 3922.08                         |
| MW - 5      | 10/16/06      | 3974.27                 | 51.87            | 53.84          | 1.97          | 3922.10                         |
| MW - 5      | 10/26/06      | 3974.27                 | 51.85            | 53.85          | 2.00          | 3922.12                         |
| MW - 5      | 11/03/06      | 3974.27                 | 51.83            | 53.82          | 1.99          | 3922.14                         |
| MW - 5      | 11/09/06      | 3974.27                 | 51.83            | 53.74          | 1.91          | 3922.15                         |
| MW - 5      | 11/16/06      | 3974.27                 | 51.89            | 53.78          | 1.89          | 3922.10                         |
| MW - 5      | 11/22/06      | 3974.27                 | 51.81            | 53.87          | 2.06          | 3922.15                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 5      | 12/04/06      | 3974.27                 | 51.84            | 53.75          | 1.91          | 3922.14                         |
| MW - 5      | 12/08/06      | 3974.27                 | 51.85            | 53.78          | 1.93          | 3922.13                         |
| MW - 5      | 12/15/06      | 3974.27                 | 51.74            | 54.05          | 2.31          | 3922.18                         |
| MW - 5      | 01/05/07      | 3974.27                 | 51.77            | 54.04          | 2.27          | 3922.16                         |
| MW - 5      | 01/12/07      | 3974.27                 | 51.75            | 54.04          | 2.29          | 3922.18                         |
| MW - 5      | 01/18/07      | 3974.27                 | 51.74            | 54.03          | 2.29          | 3922.19                         |
| MW - 5      | 01/24/07      | 3974.27                 | 51.76            | 54.06          | 2.30          | 3922.17                         |
| MW - 5      | 01/29/07      | 3974.27                 | 51.71            | 53.97          | 2.26          | 3922.22                         |
| MW - 5      | 02/09/07      | 3974.27                 | 51.73            | 53.98          | 2.25          | 3922.20                         |
| MW - 5      | 02/16/07      | 3974.27                 | 51.73            | 53.98          | 2.25          | 3922.20                         |
| MW - 5      | 02/23/07      | 3974.27                 | 51.71            | 53.96          | 2.25          | 3922.22                         |
| MW - 5      | 03/02/07      | 3974.27                 | 51.79            | 54.05          | 2.26          | 3922.14                         |
| MW - 5      | 03/14/07      | 3974.27                 | 51.78            | 53.77          | 1.99          | 3922.19                         |
| MW - 5      | 03/26/07      | 3974.27                 | 51.72            | 53.93          | 2.21          | 3922.22                         |
| MW - 5      | 04/03/07      | 3974.27                 | 51.72            | 53.93          | 2.21          | 3922.22                         |
| MW - 5      | 04/09/07      | 3974.27                 | 51.71            | 53.91          | 2.20          | 3922.23                         |
| MW - 5      | 04/26/07      | 3974.27                 | 51.71            | 53.88          | 2.17          | 3922.23                         |
| MW - 5      | 04/30/07      | 3974.27                 | 51.72            | 53.84          | 2.12          | 3922.23                         |
| MW - 5      | 05/11/07      | 3974.27                 | 51.73            | 53.84          | 2.11          | 3922.22                         |
| MW - 5      | 05/16/07      | 3974.27                 | 51.71            | 53.83          | 2.12          | 3922.24                         |
| MW - 5      | 05/22/07      | 3974.27                 | 51.70            | 53.82          | 2.12          | 3922.25                         |
| MW - 5      | 05/29/07      | 3974.27                 | 51.69            | 53.82          | 2.13          | 3922.26                         |
| MW - 5      | 06/01/07      | 3974.27                 | 51.71            | 53.86          | 2.15          | 3922.24                         |
| MW - 5      | 06/08/07      | 3974.27                 | 51.70            | 53.82          | 2.12          | 3922.25                         |
| MW - 5      | 06/11/07      | 3974.27                 | 51.71            | 53.80          | 2.09          | 3922.25                         |
| MW - 5      | 06/20/07      | 3974.27                 | 51.70            | 53.80          | 2.10          | 3922.26                         |
| MW - 5      | 07/10/07      | 3974.27                 | 51.69            | 53.78          | 2.09          | 3922.27                         |
| MW - 5      | 07/20/07      | 3974.27                 | 51.69            | 53.76          | 2.07          | 3922.27                         |
| MW - 5      | 07/25/07      | 3974.27                 | 51.68            | 53.75          | 2.07          | 3922.28                         |
| MW - 5      | 08/01/07      | 3974.27                 | 51.68            | 53.71          | 2.03          | 3922.29                         |
| MW - 5      | 08/10/07      | 3974.27                 | 51.69            | 53.74          | 2.05          | 3922.27                         |
| MW - 5      | 08/15/07      | 3974.27                 | 51.68            | 53.71          | 2.03          | 3922.29                         |
| MW - 5      | 08/30/07      | 3974.27                 | 51.69            | 53.71          | 2.02          | 3922.28                         |
| MW - 5      | 08/31/07      | 3974.27                 | 51.69            | 53.71          | 2.02          | 3922.28                         |
| MW - 5      | 09/10/07      | 3974.27                 | 51.69            | 53.70          | 2.01          | 3922.28                         |
| MW - 5      | 09/19/07      | 3974.27                 | 51.67            | 53.68          | 2.01          | 3922.30                         |
| MW - 5      | 10/01/07      | 3974.27                 | 52.03            | 52.32          | 0.29          | 3922.20                         |
| MW - 5      | 10/19/07      | 3974.27                 | 51.89            | 53.04          | 1.15          | 3922.21                         |
| MW - 5      | 11/12/07      | 3974.27                 | 51.84            | 52.93          | 1.09          | 3922.27                         |
| MW - 5      | 12/13/07      | 3974.27                 | 51.93            | 52.74          | 0.81          | 3922.22                         |
| MW - 5      | 03/07/08      | 3974.27                 | 51.77            | 52.82          | 1.05          | 3922.34                         |
| MW - 5      | 3/12/08 #1    | 3974.27                 | 51.77            | 52.82          | 1.05          | 3922.34                         |
| MW - 5      | 3/12/08 #2    | 3974.27                 | 51.82            | 52.50          | 0.68          | 3922.35                         |
| MW - 5      | 3/20/2008 #1  | 3974.27                 | 51.78            | 52.83          | 1.05          | 3922.33                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 5      | 3/20/08 #2    | 3974.27                 | 51.81            | 52.57          | 0.76          | 3922.35                         |
| MW - 5      | 3/23/08 #1    | 3974.27                 | 51.84            | 52.88          | 1.04          | 3922.27                         |
| MW - 5      | 3/23/08 #2    | 3974.27                 | 51.82            | 52.39          | 0.57          | 3922.36                         |
| MW - 5      | 4/2/08 #1     | 3974.27                 | 51.79            | 52.99          | 1.20          | 3922.30                         |
| MW - 5      | 4/2/08 #2     | 3974.27                 | 51.76            | 52.62          | 0.86          | 3922.38                         |
| MW - 5      | 4/9/08 #1     | 3974.27                 | 51.71            | 53.11          | 1.40          | 3922.35                         |
| MW - 5      | 4/9/08 #2     | 3974.27                 | 51.79            | 52.65          | 0.86          | 3922.35                         |
| MW - 5      | 04/16/08      | 3974.27                 | 51.73            | 52.82          | 1.09          | 3922.38                         |
| MW - 5      | 04/30/08      | 3974.27                 | 51.78            | 52.97          | 1.19          | 3922.31                         |
| MW - 5      | 05/29/08      | 3974.27                 | 51.63            | 53.27          | 1.64          | 3922.39                         |
| MW - 5      | 06/02/08      | 3974.27                 | 51.63            | 53.22          | 1.59          | 3922.40                         |
| MW - 5      | 06/03/08      | 3974.27                 | 51.63            | 53.22          | 1.59          | 3922.40                         |
| MW - 5      | 06/11/08      | 3974.27                 | 51.62            | 53.25          | 1.63          | 3922.41                         |
| MW - 5      | 06/18/08      | 3974.27                 | 51.62            | 53.26          | 1.64          | 3922.40                         |
| MW - 5      | 06/23/08      | 3974.27                 | 51.63            | 53.23          | 1.60          | 3922.40                         |
| MW - 5      | 07/01/08      | 3974.27                 | 51.61            | 53.22          | 1.61          | 3922.42                         |
| MW - 5      | 07/09/08      | 3974.27                 | 51.65            | 53.26          | 1.61          | 3922.38                         |
| MW - 5      | 07/15/08      | 3974.27                 | 51.60            | 53.22          | 1.62          | 3922.43                         |
| MW - 5      | 07/22/08      | 3974.27                 | 51.63            | 53.21          | 1.58          | 3922.40                         |
| MW - 5      | 08/02/08      | 3974.27                 | 51.62            | 53.22          | 1.60          | 3922.41                         |
| MW - 5      | 08/13/08      | 3974.27                 | 51.62            | 53.21          | 1.59          | 3922.41                         |
| MW - 5      | 09/03/08      | 3974.27                 | 51.61            | 53.21          | 1.60          | 3922.42                         |
| MW - 5      | 09/11/08      | 3974.27                 | 51.61            | 53.20          | 1.59          | 3922.42                         |
| MW - 5      | 09/19/08      | 3974.27                 | 51.60            | 53.16          | 1.56          | 3922.44                         |
| MW - 5      | 09/26/08      | 3974.27                 | 51.60            | 53.16          | 1.56          | 3922.44                         |
| MW - 5      | 10/10/08      | 3974.27                 | 51.61            | 53.18          | 1.57          | 3922.42                         |
| MW - 5      | 10/17/08      | 3974.27                 | 51.61            | 53.13          | 1.52          | 3922.43                         |
| MW - 5      | 10/21/08      | 3974.27                 | 51.89            | 53.26          | 1.37          | 3922.17                         |
| MW - 5      | 10/30/08      | 3974.27                 | 51.60            | 53.11          | 1.51          | 3922.44                         |
| MW - 5      | 11/04/08      | 3974.27                 | 51.61            | 53.13          | 1.52          | 3922.43                         |
| MW - 5      | 11/18/08      | 3974.27                 | 51.61            | 53.10          | 1.49          | 3922.44                         |
| MW - 5      | 11/25/08      | 3974.27                 | 51.61            | 53.12          | 1.51          | 3922.43                         |
| MW - 5      | 12/10/08      | 3974.27                 | 51.59            | 53.13          | 1.54          | 3922.45                         |
| MW - 5      | 12/18/08      | 3974.27                 | 51.60            | 53.11          | 1.51          | 3922.44                         |
| MW - 5      | 01/07/09      | 3974.27                 | 51.62            | 53.16          | 1.54          | 3922.42                         |
| MW - 5      | 01/14/09      | 3974.27                 | 51.61            | 53.15          | 1.54          | 3922.43                         |
| MW - 5      | 01/21/09      | 3974.27                 | 51.98            | 52.05          | 0.07          | 3922.28                         |
| MW - 5      | 01/22/09      | 3974.27                 | 51.59            | 53.09          | 1.50          | 3922.46                         |
| MW - 5      | 01/30/09      | 3974.27                 | 51.60            | 53.05          | 1.45          | 3922.45                         |
| MW - 5      | 02/03/09      | 3974.27                 | 51.60            | 53.02          | 1.42          | 3922.46                         |
| MW - 5      | 02/12/09      | 3974.27                 | 51.58            | 52.02          | 0.44          | 3922.62                         |
| MW - 5      | 02/19/09      | 3974.27                 | 52.59            | 52.96          | 0.37          | 3921.62                         |
| MW - 5      | 03/04/09      | 3974.27                 | 52.65            | 53.02          | 0.37          | 3921.56                         |
| MW - 5      | 03/06/09      | 3974.27                 | 51.60            | 53.04          | 1.44          | 3922.45                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 5         | 03/11/09         | 3974.27                       | 51.60               | 53.02             | 1.42             | 3922.46                               |
| MW - 5         | 03/16/09         | 3974.27                       | 52.68               | 53.06             | 0.38             | 3921.53                               |
| MW - 5         | 03/19/09         | 3974.27                       | 51.60               | 53.01             | 1.41             | 3922.46                               |
| MW - 5         | 03/24/09         | 3974.27                       | 51.55               | 52.89             | 1.34             | 3922.52                               |
| MW - 5         | 04/03/09         | 3974.27                       | 51.58               | 52.70             | 1.12             | 3922.52                               |
| MW - 5         | 04/15/09         | 3974.27                       | 51.59               | 52.91             | 1.32             | 3922.48                               |
| MW - 5         | 04/17/09         | 3974.27                       | 51.61               | 52.83             | 1.22             | 3922.48                               |
| MW - 5         | 04/22/09         | 3974.27                       | 51.60               | 52.68             | 1.08             | 3922.51                               |
| MW - 5         | 04/29/09         | 3974.27                       | 51.61               | 52.96             | 1.35             | 3922.46                               |
| MW - 5         | 05/20/09         | 3974.27                       | 51.58               | 52.91             | 1.33             | 3922.49                               |
| MW - 5         | 05/20/09         | 3974.27                       | 51.58               | 52.91             | 1.33             | 3922.49                               |
| MW - 5         | 06/09/09         | 3974.27                       | 51.58               | 52.95             | 1.37             | 3922.48                               |
| MW - 5         | 06/17/09         | 3974.27                       | 51.59               | 52.97             | 1.38             | 3922.47                               |
| MW - 5         | 06/23/09         | 3974.27                       | 51.61               | 52.66             | 1.05             | 3922.50                               |
| MW - 5         | 07/01/09         | 3974.27                       | 51.58               | 52.96             | 1.38             | 3922.48                               |
| MW - 5         | 07/08/09         | 3974.27                       | 51.58               | 52.98             | 1.40             | 3922.48                               |
| MW - 5         | 07/15/09         | 3974.27                       | 51.58               | 52.92             | 1.34             | 3922.49                               |
| MW - 5         | 07/17/09         | 3974.27                       | 51.61               | 52.89             | 1.28             | 3922.47                               |
| MW - 5         | 07/23/09         | 3974.27                       | 51.59               | 52.95             | 1.36             | 3922.48                               |
| MW - 5         | 07/24/09         | 3974.27                       | 51.61               | 52.82             | 1.21             | 3922.48                               |
| MW - 5         | 07/30/09         | 3974.27                       | 51.59               | 52.95             | 1.36             | 3922.48                               |
| MW - 5         | 08/04/09         | 3974.27                       | 51.58               | 52.93             | 1.35             | 3922.49                               |
| MW - 5         | 08/12/09         | 3974.27                       | 51.58               | 52.94             | 1.36             | 3922.49                               |
| MW - 5         | 08/20/09         | 3974.27                       | 51.58               | 52.93             | 1.35             | 3922.49                               |
| MW - 5         | 08/26/09         | 3974.27                       | 51.55               | 51.92             | 0.37             | 3922.66                               |
| MW - 5         | 09/02/09         | 3974.27                       | 51.56               | 52.92             | 1.36             | 3922.51                               |
| MW - 5         | 09/09/09         | 3974.27                       | 51.72               | 52.92             | 1.20             | 3922.37                               |
| MW - 5         | 09/14/09         | 3974.27                       | 51.74               | 53.92             | 2.18             | 3922.20                               |
| MW - 5         | 09/21/09         | 3974.27                       | 51.92               | 52.98             | 1.06             | 3922.19                               |
| MW - 5         | 10/01/09         | 3974.27                       | 51.60               | 52.95             | 1.35             | 3922.47                               |
| MW - 5         | 10/08/09         | 3974.27                       | 51.60               | 52.94             | 1.34             | 3922.47                               |
| MW - 5         | 10/14/09         | 3974.27                       | 51.92               | 52.96             | 1.04             | 3922.19                               |
| MW - 5         | 10/21/09         | 3974.27                       | 51.57               | 52.89             | 1.32             | 3922.50                               |
| MW - 5         | 10/28/09         | 3974.27                       | 51.83               | 52.90             | 1.07             | 3922.28                               |
| MW - 5         | 11/04/09         | 3974.27                       | 51.56               | 52.86             | 1.30             | 3922.52                               |
| MW - 5         | 11/11/09         | 3974.27                       | 51.56               | 52.85             | 1.29             | 3922.52                               |
| MW - 5         | 11/18/09         | 3974.27                       | 51.55               | 52.86             | 1.31             | 3922.52                               |
| MW - 5         | 11/25/09         | 3974.27                       | 51.58               | 52.87             | 1.29             | 3922.50                               |
| MW - 5         | 12/02/09         | 3974.27                       | 51.57               | 52.88             | 1.31             | 3922.50                               |
| MW - 5         | 12/10/09         | 3974.27                       | 51.58               | 52.87             | 1.29             | 3922.50                               |
| MW - 5         | 12/17/09         | 3974.27                       | 51.62               | 52.89             | 1.27             | 3922.46                               |
| MW - 5         | 12/21/09         | 3974.27                       | 52.06               | 52.83             | 0.77             | 3922.09                               |
| MW - 5         | 12/30/09         | 3974.27                       | 51.66               | 52.84             | 1.18             | 3922.43                               |
| MW - 5         | 01/07/10         | 3974.27                       | 51.65               | 52.66             | 1.01             | 3922.47                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 5      | 01/18/10      | 3974.27                 | 51.57            | 52.66          | 1.09          | 3922.54                         |
| MW - 5      | 02/02/10      | 3974.27                 | 51.58            | 52.74          | 1.16          | 3922.52                         |
| MW - 5      | 02/11/10      | 3974.27                 | 51.56            | 52.73          | 1.17          | 3922.53                         |
| MW - 5      | 02/18/10      | 3974.27                 | 51.55            | 52.74          | 1.19          | 3922.54                         |
| MW - 5      | 02/25/10      | 3974.27                 | 51.60            | 52.80          | 1.20          | 3922.49                         |
| MW - 5      | 03/02/10      | 3974.27                 | 51.64            | 52.82          | 1.18          | 3922.45                         |
| MW - 5      | 03/04/10      | 3974.27                 | 51.57            | 52.09          | 0.52          | 3922.62                         |
| MW - 5      | 03/10/10      | 3974.27                 | 51.59            | 52.78          | 1.19          | 3922.50                         |
| MW - 5      | 03/12/10      | 3974.27                 | 51.61            | 52.86          | 1.25          | 3922.47                         |
| MW - 5      | 03/15/10      | 3974.27                 | 51.60            | 52.73          | 1.13          | 3922.50                         |
| MW - 5      | 03/18/10      | 3974.27                 | 51.59            | 52.73          | 1.14          | 3922.51                         |
| MW - 5      | 03/22/10      | 3974.27                 | 51.62            | 52.78          | 1.16          | 3922.48                         |
| MW - 5      | 03/24/10      | 3974.27                 | 51.63            | 52.76          | 1.13          | 3922.47                         |
| MW - 5      | 03/30/10      | 3974.27                 | 51.61            | 52.79          | 1.18          | 3922.48                         |
| MW - 5      | 04/07/10      | 3974.27                 | 51.64            | 52.79          | 1.15          | 3922.46                         |
| MW - 5      | 04/12/10      | 3974.27                 | 51.53            | 52.70          | 1.17          | 3922.56                         |
| MW - 5      | 04/16/10      | 3974.27                 | 51.96            | 53.95          | 1.99          | 3922.01                         |
| MW - 5      | 04/20/10      | 3974.27                 | 51.85            | 53.52          | 1.67          | 3922.17                         |
| MW - 5      | 04/27/10      | 3974.27                 | 51.98            | 53.60          | 1.62          | 3922.05                         |
| MW - 5      | 04/30/10      | 3974.27                 | 51.91            | 53.39          | 1.48          | 3922.14                         |
| MW - 5      | 05/12/10      | 3974.27                 | 51.91            | 53.50          | 1.59          | 3922.12                         |
| MW - 5      | 05/14/10      | 3974.27                 | 51.93            | 53.38          | 1.45          | 3922.12                         |
| MW - 5      | 05/17/10      | 3974.27                 | 52.08            | 53.39          | 1.31          | 3921.99                         |
| MW - 5      | 05/20/10      | 3974.27                 | 51.90            | 53.51          | 1.61          | 3922.13                         |
| MW - 5      | 05/25/10      | 3974.27                 | 51.86            | 53.12          | 1.26          | 3922.22                         |
| MW - 5      | 06/01/10      | 3974.27                 | 51.88            | 53.11          | 1.23          | 3922.21                         |
| MW - 5      | 06/09/10      | 3974.27                 | 51.88            | 53.12          | 1.24          | 3922.20                         |
| MW - 5      | 06/16/10      | 3974.27                 | 51.85            | 52.92          | 1.07          | 3922.26                         |
| MW - 5      | 06/28/10      | 3974.27                 | 51.63            | 53.78          | 2.15          | 3922.32                         |
| MW - 5      | 07/09/10      | 3974.27                 | 51.87            | 52.91          | 1.04          | 3922.24                         |
| MW - 5      | 07/14/10      | 3974.27                 | 51.58            | 52.40          | 0.82          | 3922.57                         |
| MW - 5      | 07/23/10      | 3974.27                 | 51.60            | 52.49          | 0.89          | 3922.54                         |
| MW - 5      | 07/29/10      | 3974.27                 | 51.59            | 52.40          | 0.81          | 3922.56                         |
| MW - 5      | 08/05/10      | 3974.27                 | 51.61            | 52.40          | 0.79          | 3922.54                         |
| MW - 5      | 08/12/10      | 3974.27                 | 51.62            | 52.42          | 0.80          | 3922.53                         |
| MW - 5      | 08/16/10      | 3974.27                 | 51.62            | 52.42          | 0.80          | 3922.53                         |
| MW - 5      | 08/18/10      | 3974.27                 | 51.59            | 52.45          | 0.86          | 3922.55                         |
| MW - 5      | 08/25/10      | 3974.27                 | 51.81            | 52.84          | 1.03          | 3922.31                         |
| MW - 5      | 09/02/10      | 3974.27                 | 51.81            | 52.88          | 1.07          | 3922.30                         |
| MW - 5      | 09/09/10      | 3974.27                 | 51.62            | 52.41          | 0.79          | 3922.53                         |
| MW - 5      | 09/30/10      | 3974.27                 | 51.61            | 52.36          | 0.75          | 3922.55                         |
| MW - 5      | 10/07/10      | 3974.27                 | 51.64            | 52.35          | 0.71          | 3922.52                         |
| MW - 5      | 10/14/10      | 3974.27                 | 51.88            | 53.49          | 1.61          | 3922.15                         |
| MW - 5      | 10/21/10      | 3974.27                 | 51.88            | 53.46          | 1.58          | 3922.15                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 5      | 11/04/10      | 3974.27                 | 51.86            | 52.77          | 0.91          | 3922.27                         |
| MW - 5      | 11/10/10      | 3974.27                 | 51.88            | 53.43          | 1.55          | 3922.16                         |
| MW - 5      | 12/01/10      | 3974.27                 | 51.70            | 52.44          | 0.74          | 3922.46                         |
| MW - 5      | 12/08/10      | 3974.27                 | 51.85            | 52.77          | 0.92          | 3922.28                         |
| MW - 5      | 01/26/11      | 3974.27                 | 51.59            | 52.51          | 0.92          | 3922.54                         |
| MW - 5      | 02/28/11      | 3974.27                 | 51.86            | 53.46          | 1.60          | 3922.17                         |
| MW - 5      | 03/04/11      | 3974.27                 | 51.66            | 52.44          | 0.78          | 3922.49                         |
| MW - 5      | 03/09/11      | 3974.27                 | 51.75            | 53.12          | 1.37          | 3922.31                         |
| MW - 5      | 04/28/11      | 3974.27                 | 51.74            | 52.91          | 1.17          | 3922.35                         |
| MW - 5      | 05/04/11      | 3974.27                 | 51.70            | 52.90          | 1.20          | 3922.39                         |
| MW - 5      | 05/11/11      | 3974.27                 | 51.69            | 52.82          | 1.13          | 3922.41                         |
| MW - 5      | 05/12/11      | 3974.27                 | 51.62            | 52.61          | 0.99          | 3922.50                         |
| MW - 5      | 05/18/11      | 3974.27                 | 51.64            | 52.75          | 1.11          | 3922.46                         |
| MW - 5      | 05/23/11      | 3974.27                 | 51.76            | 52.88          | 1.12          | 3922.34                         |
| MW - 5      | 06/08/11      | 3974.27                 | 51.72            | 53.19          | 1.47          | 3922.33                         |
| MW - 5      | 06/16/11      | 3974.27                 | 51.73            | 53.02          | 1.29          | 3922.35                         |
| MW - 5      | 06/22/11      | 3974.27                 | 51.68            | 52.88          | 1.20          | 3922.41                         |
| MW - 5      | 06/30/11      | 3974.27                 | 51.64            | 53.20          | 1.56          | 3922.40                         |
| MW - 5      | 07/06/11      | 3974.27                 | 51.57            | 52.79          | 1.22          | 3922.52                         |
| MW - 5      | 07/13/11      | 3974.27                 | 51.68            | 53.12          | 1.44          | 3922.37                         |
| MW - 5      | 07/15/11      | 3974.27                 | 51.75            | 53.20          | 1.45          | 3922.30                         |
| MW - 5      | 07/19/11      | 3974.27                 | 51.60            | 52.53          | 0.93          | 3922.53                         |
| MW - 5      | 07/21/11      | 3974.27                 | 51.61            | 52.80          | 1.19          | 3922.48                         |
| MW - 5      | 07/26/11      | 3974.27                 | 51.76            | 52.68          | 0.92          | 3922.37                         |
| MW - 5      | 07/28/11      | 3974.27                 | 51.73            | 52.97          | 1.24          | 3922.35                         |
| MW - 5      | 08/02/11      | 3974.27                 | 51.88            | 53.58          | 1.70          | 3922.14                         |
| MW - 5      | 08/09/11      | 3974.27                 | 51.82            | 53.30          | 1.48          | 3922.23                         |
| MW - 5      | 08/12/11      | 3974.27                 | 51.84            | 52.96          | 1.12          | 3922.26                         |
| MW - 5      | 08/15/11      | 3974.27                 | 51.84            | 52.96          | 1.12          | 3922.26                         |
| MW - 5      | 08/16/11      | 3974.27                 | 51.66            | 52.63          | 0.97          | 3922.46                         |
| MW - 5      | 08/19/11      | 3974.27                 | 51.73            | 52.55          | 0.82          | 3922.42                         |
| MW - 5      | 08/23/11      | 3974.27                 | 51.74            | 52.75          | 1.01          | 3922.38                         |
| MW - 5      | 08/26/11      | 3974.27                 | 51.78            | 53.05          | 1.27          | 3922.30                         |
| MW - 5      | 08/30/11      | 3974.27                 | 51.60            | 52.50          | 0.90          | 3922.54                         |
| MW - 5      | 09/01/11      | 3974.27                 | 51.65            | 52.16          | 0.51          | 3922.54                         |
| MW - 5      | 09/08/11      | 3974.27                 | 51.80            | 53.37          | 1.57          | 3922.23                         |
| MW - 5      | 09/13/11      | 3974.27                 | 51.72            | 53.04          | 1.32          | 3922.35                         |
| MW - 5      | 09/15/11      | 3974.27                 | 51.81            | 53.17          | 1.36          | 3922.26                         |
| MW - 5      | 09/22/11      | 3974.27                 | 51.61            | 52.40          | 0.79          | 3922.54                         |
| MW - 5      | 10/06/11      | 3974.27                 | 51.72            | 52.82          | 1.10          | 3922.39                         |
| MW - 5      | 10/11/11      | 3974.27                 | 51.81            | 52.96          | 1.15          | 3922.29                         |
| MW - 5      | 10/13/11      | 3974.27                 | 51.87            | 53.61          | 1.74          | 3922.14                         |
| MW - 5      | 10/26/11      | 3974.27                 | 51.81            | 53.23          | 1.42          | 3922.25                         |
| MW - 5      | 11/22/11      | 3974.27                 | 51.76            | 52.83          | 1.07          | 3922.35                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 5         | 12/02/11         | 3974.27                       | 51.59               | 52.56             | 0.97             | 3922.53                               |
| MW - 5         | 12/29/11         | 3974.27                       | 51.59               | 52.59             | 1.00             | 3922.53                               |
| MW - 5         | 01/26/12         | 3974.27                       | 51.65               | 52.82             | 1.17             | 3922.44                               |
| MW - 5         | 01/31/12         | 3974.27                       | 51.68               | 52.87             | 1.19             | 3922.41                               |
| MW - 5         | 02/15/12         | 3974.27                       | 51.59               | 52.57             | 0.98             | 3922.53                               |
| MW - 5         | 02/28/12         | 3974.27                       | 51.63               | 52.70             | 1.07             | 3922.48                               |
| MW - 5         | 03/20/12         | 3974.27                       | 51.72               | 53.18             | 1.46             | 3922.33                               |
| MW - 5         | 03/27/12         | 3974.27                       | 51.67               | 53.00             | 1.33             | 3922.40                               |
| MW - 5         | 04/10/12         | 3974.27                       | 51.74               | 53.11             | 1.37             | 3922.32                               |
| MW - 5         | 04/19/12         | 3974.27                       | 51.67               | 52.96             | 1.29             | 3922.41                               |
| MW - 5         | 04/26/12         | 3974.27                       | 51.69               | 52.40             | 0.71             | 3922.47                               |
| MW - 5         | 05/08/12         | 3974.27                       | 51.69               | 52.40             | 0.71             | 3922.47                               |
| MW - 5         | 05/15/12         | 3974.27                       | 51.58               | 52.71             | 1.13             | 3922.52                               |
| MW - 5         | 05/17/12         | 3974.27                       | 51.56               | 52.70             | 1.14             | 3922.54                               |
| MW - 5         | 06/05/12         | 3974.27                       | 51.68               | 53.12             | 1.44             | 3922.37                               |
| MW - 5         | 06/21/12         | 3974.27                       | 51.68               | 53.24             | 1.56             | 3922.36                               |
| MW - 5         | 06/28/12         | 3974.27                       | 51.67               | 53.29             | 1.62             | 3922.36                               |
| MW - 5         | 07/17/12         | 3974.27                       | 51.90               | 52.61             | 0.71             | 3922.26                               |
| MW - 5         | 08/01/12         | 3974.27                       | 51.68               | 52.81             | 1.13             | 3922.42                               |
| MW - 5         | 10/02/12         | 3974.27                       | 51.69               | 53.16             | 1.47             | 3922.36                               |
| MW - 5         | 10/09/12         | 3974.27                       | 51.67               | 53.20             | 1.53             | 3922.37                               |
| MW - 5         | 10/16/12         | 3974.27                       | 51.67               | 53.09             | 1.42             | 3922.39                               |
| MW - 5         | 10/25/12         | 3974.27                       | 51.67               | 53.21             | 1.54             | 3922.37                               |
| MW - 5         | 10/30/12         | 3974.27                       | 51.68               | 53.20             | 1.52             | 3922.36                               |
| MW - 5         | 11/29/12         | 3974.27                       | 51.69               | 53.54             | 1.85             | 3922.30                               |
| MW - 5         | 12/14/12         | 3974.27                       | 51.70               | 53.26             | 1.56             | 3922.34                               |
| MW - 5         | 02/11/13         | 3974.27                       | 51.67               | 53.02             | 1.35             | 3922.40                               |
| MW - 5         | 04/11/13         | 3974.27                       | 51.82               | 53.84             | 2.02             | 3922.15                               |
| MW - 5         | 04/15/13         | 3974.27                       | 51.85               | 53.78             | 1.93             | 3922.13                               |
| MW - 5         | 04/22/13         | 3974.27                       | 51.65               | 53.14             | 1.49             | 3922.40                               |
| MW - 5         | 05/06/13         | 3974.27                       | 51.68               | 53.16             | 1.48             | 3922.37                               |
| MW - 5         | 05/09/13         | 3974.27                       | 51.67               | 53.18             | 1.51             | 3922.37                               |
| MW - 5         | 05/20/13         | 3974.27                       | 51.67               | 53.23             | 1.56             | 3922.37                               |
| MW - 5         | 05/24/13         | 3974.27                       | 51.74               | 53.86             | 2.12             | 3922.21                               |
| MW - 5         | 05/29/13         | 3974.27                       | 51.66               | 53.25             | 1.59             | 3922.37                               |
| MW - 5         | 05/31/13         | 3974.27                       | 51.74               | 53.40             | 1.66             | 3922.28                               |
| MW - 5         | 06/07/13         | 3974.27                       | 51.98               | 53.99             | 2.01             | 3921.99                               |
| MW - 5         | 06/12/13         | 3974.27                       | 51.93               | 53.88             | 1.95             | 3922.05                               |
| MW - 5         | 06/14/13         | 3974.27                       | 51.42               | 53.62             | 2.20             | 3922.52                               |
| MW - 5         | 06/19/13         | 3974.27                       | 51.96               | 53.88             | 1.92             | 3922.02                               |
| MW - 5         | 06/21/13         | 3974.27                       | 52.01               | 53.76             | 1.75             | 3922.00                               |
| MW - 5         | 06/25/13         | 3974.27                       | 51.73               | 52.71             | 0.98             | 3922.39                               |
| MW - 5         | 06/26/13         | 3974.27                       | 51.85               | 53.57             | 1.72             | 3922.16                               |
| MW - 5         | 07/03/13         | 3974.27                       | 52.03               | 53.89             | 1.86             | 3921.96                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 5      | 07/09/13      | 3974.27                 | 52.00            | 54.19          | 2.19          | 3921.94                         |
| MW - 5      | 07/11/13      | 3974.27                 | 51.98            | 54.00          | 2.02          | 3921.99                         |
| MW - 5      | 07/24/13      | 3974.27                 | 51.95            | 52.87          | 0.92          | 3922.18                         |
| MW - 5      | 07/26/13      | 3974.27                 | 51.89            | 53.65          | 1.76          | 3922.12                         |
| MW - 5      | 07/31/13      | 3974.27                 | 51.73            | 53.38          | 1.65          | 3922.29                         |
| MW - 5      | 08/02/13      | 3974.27                 | 51.93            | 53.71          | 1.78          | 3922.07                         |
| MW - 5      | 08/06/13      | 3974.27                 | 51.76            | 53.33          | 1.57          | 3922.27                         |
| MW - 5      | 08/14/13      | 3974.27                 | 51.78            | 53.42          | 1.64          | 3922.24                         |
| MW - 5      | 08/21/13      | 3974.27                 | 51.92            | 53.75          | 1.83          | 3922.08                         |
| MW - 5      | 08/26/13      | 3974.27                 | 51.89            | 53.56          | 1.67          | 3922.13                         |
| MW - 5      | 09/06/13      | 3974.27                 | 51.91            | 53.75          | 1.84          | 3922.08                         |
| MW - 5      | 08/30/13      | 3974.27                 | 51.77            | 53.32          | 1.55          | 3922.27                         |
| MW - 5      | 09/13/13      | 3974.27                 | 51.83            | 53.27          | 1.44          | 3922.22                         |
| MW - 5      | 09/27/13      | 3974.27                 | 51.86            | 53.67          | 1.81          | 3922.14                         |
| MW - 5      | 09/30/13      | 3974.27                 | 51.80            | 53.52          | 1.72          | 3922.21                         |
| MW - 5      | 10/02/13      | 3974.27                 | 51.94            | 53.85          | 1.91          | 3922.04                         |
| MW - 5      | 10/03/13      | 3974.27                 | 51.89            | 53.15          | 1.26          | 3922.19                         |
| MW - 5      | 10/11/13      | 3974.27                 | 51.77            | 53.33          | 1.56          | 3922.27                         |
| MW - 5      | 10/17/13      | 3974.27                 | 51.77            | 53.39          | 1.62          | 3922.26                         |
| MW - 5      | 10/22/13      | 3974.27                 | 51.76            | 53.41          | 1.65          | 3922.26                         |
| MW - 5      | 10/24/13      | 3974.27                 | 51.88            | 53.71          | 1.83          | 3922.12                         |
| MW - 5      | 11/01/13      | 3974.27                 | 51.80            | 53.25          | 1.45          | 3922.25                         |
| MW - 5      | 11/04/13      | 3974.27                 | 51.80            | 53.36          | 1.56          | 3922.24                         |
| MW - 5      | 11/08/13      | 3974.27                 | 51.95            | 54.00          | 2.05          | 3922.01                         |
| MW - 5      | 11/13/13      | 3974.27                 | 51.77            | 53.35          | 1.58          | 3922.26                         |
| MW - 5      | 11/15/13      | 3974.27                 | 51.76            | 53.36          | 1.60          | 3922.27                         |
| MW - 5      | 11/18/13      | 3974.27                 | 51.79            | 53.45          | 1.66          | 3922.23                         |
| MW - 5      | 12/12/13      | 3974.27                 | 51.80            | 53.55          | 1.75          | 3922.21                         |
| MW - 5      | 12/16/13      | 3974.27                 | 51.80            | 53.53          | 1.73          | 3922.21                         |
| MW - 5      | 12/18/13      | 3974.27                 | 51.81            | 53.54          | 1.73          | 3922.20                         |
| MW - 5      | 12/23/13      | 3974.27                 | 51.84            | 53.58          | 1.74          | 3922.17                         |
| MW - 5      | 12/30/13      | 3974.27                 | 51.81            | 53.45          | 1.64          | 3922.21                         |
| MW - 5      | 01/01/14      | 3974.27                 | 51.65            | 53.76          | 2.11          | 3922.30                         |
| MW - 5      | 01/06/14      | 3974.27                 | 51.73            | 53.43          | 1.70          | 3922.29                         |
| MW - 5      | 01/15/14      | 3974.27                 | 51.88            | 53.55          | 1.67          | 3922.14                         |
| MW - 5      | 01/17/14      | 3974.27                 | 51.80            | 53.32          | 1.52          | 3922.24                         |
| MW - 5      | 01/20/14      | 3974.27                 | 52.01            | 54.13          | 2.12          | 3921.94                         |
| MW - 5      | 01/22/14      | 3974.27                 | 52.23            | 54.19          | 1.96          | 3921.75                         |
| MW - 5      | 01/29/14      | 3974.27                 | 51.80            | 53.50          | 1.70          | 3922.22                         |
| MW - 5      | 02/04/14      | 3974.27                 | 51.76            | 53.54          | 1.78          | 3922.24                         |
| MW - 5      | 02/13/14      | 3974.27                 | 51.78            | 53.58          | 1.80          | 3922.22                         |
| MW - 5      | 02/21/14      | 3974.27                 | 52.00            | 54.28          | 2.28          | 3921.93                         |
| MW - 5      | 02/26/14      | 3974.27                 | 52.04            | 54.30          | 2.26          | 3921.89                         |
| MW - 5      | 03/12/14      | 3974.27                 | 51.86            | 53.71          | 1.85          | 3922.13                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 5         | 03/14/14         | 3974.27                       | 51.84               | 53.64             | 1.80             | 3922.16                               |
| MW - 5         | 03/17/14         | 3974.27                       | 51.86               | 53.66             | 1.80             | 3922.14                               |
| MW - 5         | 03/24/14         | 3974.27                       | 52.26               | 54.10             | 1.84             | 3921.73                               |
| MW - 5         | 03/26/14         | 3974.27                       | 52.44               | 54.02             | 1.58             | 3921.59                               |
| MW - 5         | 04/09/14         | 3974.27                       | 51.78               | 53.42             | 1.64             | 3922.24                               |
| MW - 5         | 04/18/14         | 3974.27                       | 51.79               | 53.42             | 1.63             | 3922.24                               |
| MW - 5         | 04/21/14         | 3974.27                       | 51.78               | 53.47             | 1.69             | 3922.24                               |
| MW - 5         | 04/28/14         | 3974.27                       | 51.77               | 53.53             | 1.76             | 3922.24                               |
| MW - 5         | 05/09/14         | 3974.27                       | 51.88               | 53.76             | 1.88             | 3922.11                               |
| MW - 5         | 05/12/14         | 3974.27                       | 51.91               | 53.90             | 1.99             | 3922.06                               |
| MW - 5         | 05/19/14         | 3974.27                       | 51.81               | 53.73             | 1.92             | 3922.17                               |
| MW - 5         | 05/28/14         | 3974.27                       | 51.85               | 53.76             | 1.91             | 3922.13                               |
| MW - 5         | 06/04/14         | 3974.27                       | 51.89               | 53.86             | 1.97             | 3922.08                               |
| MW - 5         | 06/13/14         | 3974.27                       | 51.88               | 53.86             | 1.98             | 3922.09                               |
| MW - 5         | 06/16/14         | 3974.27                       | 51.83               | 53.37             | 1.54             | 3922.21                               |
| MW - 5         | 07/02/14         | 3974.27                       | 51.80               | 53.66             | 1.86             | 3922.19                               |
| MW - 5         | 07/07/14         | 3974.27                       | 51.81               | 53.70             | 1.89             | 3922.18                               |
| MW - 5         | 07/18/14         | 3974.27                       | 51.98               | 54.15             | 2.17             | 3921.96                               |
| MW - 5         | 07/30/14         | 3974.27                       | 51.86               | 53.54             | 1.68             | 3922.16                               |
| MW - 5         | 08/11/14         | 3974.27                       | 51.87               | 53.67             | 1.80             | 3922.13                               |
| MW - 5         | 08/22/14         | 3974.27                       | 51.89               | 53.65             | 1.76             | 3922.12                               |
| MW - 5         | 08/23/14         | 3974.27                       | 51.89               | 53.65             | 1.76             | 3922.12                               |
| MW - 5         | 09/10/14         | 3974.27                       | 51.90               | 53.96             | 2.06             | 3922.06                               |
| MW - 5         | 09/23/14         | 3974.27                       | 51.92               | 53.96             | 2.04             | 3922.04                               |
| MW - 5         | 09/25/14         | 3974.27                       | 52.18               | 54.45             | 2.27             | 3921.75                               |
| MW - 5         | 10/03/14         | 3974.27                       | 51.98               | 53.96             | 1.98             | 3921.99                               |
| MW - 5         | 10/15/14         | 3974.27                       | 51.49               | 53.79             | 2.30             | 3922.44                               |
| MW - 5         | 10/17/14         | 3974.27                       | 52.02               | 54.34             | 2.32             | 3921.90                               |
| MW - 5         | 10/24/14         | 3974.27                       | 52.08               | 54.12             | 2.04             | 3921.88                               |
| MW - 5         | 10/27/14         | 3974.27                       | 52.06               | 54.10             | 2.04             | 3921.90                               |
| MW - 5         | 10/31/14         | 3974.27                       | 51.72               | 53.80             | 2.08             | 3922.24                               |
| MW - 5         | 11/03/14         | 3974.27                       | 51.69               | 55.75             | 4.06             | 3921.97                               |
| MW - 5         | 11/10/14         | 3974.27                       | 51.87               | 54.20             | 2.33             | 3922.05                               |
| MW - 5         | 11/14/14         | 3974.27                       | 51.85               | 53.59             | 1.74             | 3922.16                               |
| MW - 5         | 11/17/14         | 3974.27                       | 51.91               | 53.47             | 1.56             | 3922.13                               |
| MW - 5         | 11/18/14         | 3974.27                       | 51.91               | 53.47             | 1.56             | 3922.13                               |
| MW - 5         | 11/21/14         | 3974.27                       | 51.93               | 53.51             | 1.58             | 3922.10                               |
| MW - 5         | 12/03/14         | 3974.27                       | 51.88               | 53.69             | 1.81             | 3922.12                               |
| MW - 5         | 12/05/14         | 3974.27                       | 51.90               | 53.54             | 1.64             | 3922.12                               |
| MW - 5         | 12/12/14         | 3974.27                       | 51.92               | 53.50             | 1.58             | 3922.11                               |
| MW - 5         | 12/15/14         | 3974.27                       | 51.92               | 53.50             | 1.58             | 3922.11                               |
| MW - 5         | 12/19/14         | 3974.27                       | 51.94               | 53.52             | 1.58             | 3922.09                               |
| MW - 5         | 12/22/14         | 3974.27                       | 51.90               | 53.47             | 1.57             | 3922.13                               |
| MW - 5         | 01/05/15         | 3974.27                       | 51.88               | 53.42             | 1.54             | 3922.16                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 5      | 01/09/15      | 3974.27                 | 51.86            | 53.63          | 1.77          | 3922.14                         |
| MW - 5      | 01/14/15      | 3974.27                 | 51.86            | 53.65          | 1.79          | 3922.14                         |
| MW - 5      | 1/21/2015     | 3974.27                 | 51.86            | 53.40          | 1.54          | 3922.18                         |
| MW - 5      | 02/18/15      | 3974.27                 | 51.95            | 53.69          | 1.74          | 3922.06                         |
| MW - 5      | 02/19/15      | 3974.27                 | 51.92            | 53.30          | 1.38          | 3922.14                         |
| MW - 5      | 03/09/15      | 3974.27                 | 51.87            | 53.38          | 1.51          | 3922.17                         |
| MW - 5      | 03/11/15      | 3974.27                 | 51.85            | 53.58          | 1.73          | 3922.16                         |
| MW - 5      | 03/18/15      | 3974.27                 | 51.85            | 53.52          | 1.67          | 3922.17                         |
| MW - 5      | 03/31/15      | 3974.27                 | 51.88            | 53.42          | 1.54          | 3922.16                         |
| MW - 5      | 04/09/15      | 3974.27                 | 51.84            | 53.46          | 1.62          | 3922.19                         |
| MW - 5      | 04/15/15      | 3974.27                 | 51.83            | 53.51          | 1.68          | 3922.19                         |
| MW - 5      | 04/22/15      | 3974.27                 | 51.83            | 53.55          | 1.72          | 3922.18                         |
| MW - 5      | 05/12/15      | 3974.27                 | 51.84            | 53.58          | 1.74          | 3922.17                         |
| MW - 5      | 05/26/15      | 3974.27                 | 51.84            | 53.37          | 1.53          | 3922.20                         |
| MW - 5      | 06/01/15      | 3974.27                 | 51.85            | 53.58          | 1.73          | 3922.16                         |
| MW - 5      | 06/04/15      | 3974.27                 | 51.84            | 53.67          | 1.83          | 3922.16                         |
| MW - 5      | 06/22/15      | 3974.27                 | 51.95            | 54.00          | 2.05          | 3922.01                         |
| MW - 5      | 06/26/15      | 3974.27                 | 52.10            | 53.93          | 1.83          | 3921.90                         |
| MW - 5      | 07/22/15      | 3974.27                 | 52.02            | 53.53          | 1.51          | 3922.02                         |
| MW - 5      | 07/27/15      | 3974.27                 | 52.08            | 53.83          | 1.75          | 3921.93                         |
| MW - 5      | 08/18/15      | 3974.27                 | 51.85            | 53.31          | 1.46          | 3922.20                         |
| MW - 5      | 09/09/15      | 3974.27                 | 52.00            | 54.15          | 2.15          | 3921.95                         |
| MW - 5      | 09/30/15      | 3974.27                 | 52.14            | 54.50          | 2.36          | 3921.78                         |
| MW - 5      | 10/08/15      | 3974.27                 | 51.98            | 53.90          | 1.92          | 3922.00                         |
| MW - 5      | 10/16/15      | 3974.27                 | 52.08            | 54.27          | 2.19          | 3921.86                         |
| MW - 5      | 10/21/15      | 3974.27                 | 52.50            | 53.84          | 1.34          | 3921.57                         |
| MW - 5      | 11/18/15      | 3974.27                 | 52.03            | 53.95          | 1.92          | 3921.95                         |
| MW - 5      | 11/23/15      | 3974.27                 | 51.94            | 53.52          | 1.58          | 3922.09                         |
| MW - 5      | 12/04/15      | 3974.27                 | 51.85            | 53.69          | 1.84          | 3922.14                         |
| MW - 5      | 12/09/15      | 3974.27                 | 52.14            | 54.19          | 2.05          | 3921.82                         |
|             |               |                         |                  |                |               |                                 |
| MW - 6      | 03/02/00      | 3974.72                 | 53.10            | 53.84          | 0.74          | 3921.51                         |
| MW - 6      | 04/25/00      | 3974.72                 | 53.14            | 53.91          | 0.77          | 3921.46                         |
| MW - 6      | 09/06/00      | 3974.72                 | 52.81            | 55.87          | 3.06          | 3921.45                         |
| MW - 6      | 11/28/00      | 3974.72                 | 52.91            | 55.62          | 2.71          | 3921.40                         |
| MW - 6      | 02/21/01      | 3974.72                 | 52.79            | 55.42          | 2.63          | 3921.54                         |
| MW - 6      | 05/31/01      | 3974.72                 | 52.95            | 54.83          | 1.88          | 3921.49                         |
| MW - 6      | 08/23/01      | 3974.72                 | 52.69            | 55.95          | 3.26          | 3921.54                         |
| MW - 6      | 11/21/01      | 3974.72                 | 53.42            | 55.42          | 2.00          | 3921.00                         |
| MW - 6      | 02/13/02      | 3974.72                 | 52.74            | 56.04          | 3.30          | 3921.49                         |
| MW - 6      | 06/12/02      | 3974.72                 | 52.63            | 56.16          | 3.53          | 3921.56                         |
| MW - 6      | 08/26/02      | 3974.72                 | 52.67            | 56.24          | 3.57          | 3921.51                         |
| MW - 6      | 11/08/02      | 3974.72                 | 53.03            | 55.06          | 2.03          | 3921.39                         |
| MW - 6      | 11/21/02      | 3974.72                 | 53.10            | 54.57          | 1.47          | 3921.40                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 6         | 12/27/02         | 3974.72                       | 52.95               | 54.97             | 2.02             | 3921.47                               |
| MW - 6         | 01/06/03         | 3974.72                       | 52.90               | 55.38             | 2.48             | 3921.45                               |
| MW - 6         | 01/08/03         | 3974.72                       | 52.88               | 55.42             | 2.54             | 3921.46                               |
| MW - 6         | 01/10/03         | 3974.72                       | 52.86               | 55.86             | 3.00             | 3921.41                               |
| MW - 6         | 01/13/03         | 3974.72                       | 52.85               | 55.55             | 2.70             | 3921.47                               |
| MW - 6         | 02/05/03         | 3974.72                       | 52.80               | 55.81             | 3.01             | 3921.47                               |
| MW - 6         | 02/26/03         | 3974.72                       | 52.71               | 56.09             | 3.38             | 3921.50                               |
| MW - 6         | 03/04/03         | 3974.72                       | 52.72               | 56.09             | 3.37             | 3921.49                               |
| MW - 6         | 03/12/03         | 3974.72                       | 52.73               | 56.18             | 3.45             | 3921.47                               |
| MW - 6         | 03/18/03         | 3974.72                       | 52.71               | 56.25             | 3.54             | 3921.48                               |
| MW - 6         | 03/25/03         | 3974.72                       | 52.71               | 56.18             | 3.47             | 3921.49                               |
| MW - 6         | 03/31/03         | 3974.72                       | 52.69               | 56.21             | 3.52             | 3921.50                               |
| MW - 6         | 04/09/03         | 3974.72                       | 52.73               | 53.02             | 0.29             | 3921.95                               |
| MW - 6         | 04/14/03         | 3974.72                       | 52.61               | 53.00             | 0.39             | 3922.05                               |
| MW - 6         | 05/07/03         | 3974.72                       | 52.92               | 56.21             | 3.29             | 3921.31                               |
| MW - 6         | 05/08/03         | 3974.72                       | 52.75               | 56.04             | 3.29             | 3921.48                               |
| MW - 6         | 05/13/03         | 3974.72                       | 52.80               | 59.21             | 6.41             | 3920.96                               |
| MW - 6         | 05/21/03         | 3974.72                       | 52.73               | 56.11             | 3.38             | 3921.48                               |
| MW - 6         | 05/27/03         | 3974.72                       | 53.12               | 56.50             | 3.38             | 3921.09                               |
| MW - 6         | 05/28/03         | 3974.72                       | 53.20               | 56.65             | 3.45             | 3921.00                               |
| MW - 6         | 06/03/03         | 3974.72                       | 53.19               | 56.68             | 3.49             | 3921.01                               |
| MW - 6         | 06/10/03         | 3974.72                       | 52.73               | 56.25             | 3.52             | 3921.46                               |
| MW - 6         | 07/01/03         | 3974.72                       | 52.77               | 56.31             | 3.54             | 3921.42                               |
| MW - 6         | 07/08/03         | 3974.72                       | 52.77               | 56.40             | 3.63             | 3921.41                               |
| MW - 6         | 07/30/03         | 3974.72                       | 52.62               | 56.23             | 3.61             | 3921.56                               |
| MW - 6         | 08/04/03         | 3974.72                       | 52.40               | 56.45             | 4.05             | 3921.71                               |
| MW - 6         | 08/18/03         | 3974.72                       | 52.97               | 54.18             | 1.21             | 3921.57                               |
| MW - 6         | 08/25/03         | 3974.72                       | 53.40               | 57.02             | 3.62             | 3920.78                               |
| MW - 6         | 10/01/03         | 3974.72                       | 52.77               | 54.90             | 2.13             | 3921.63                               |
| MW - 6         | 10/06/03         | 3974.72                       | 52.72               | 56.26             | 3.54             | 3921.47                               |
| MW - 6         | 10/08/03         | 3974.72                       | 53.05               | 56.62             | 3.57             | 3921.13                               |
| MW - 6         | 10/15/03         | 3974.72                       | 53.47               | 57.10             | 3.63             | 3920.71                               |
| MW - 6         | 11/12/03         | 3974.72                       | 53.11               | 55.91             | 2.80             | 3921.19                               |
| MW - 6         | 11/19/03         | 3974.72                       | 53.12               | 56.70             | 3.58             | 3921.06                               |
| MW - 6         | 12/01/03         | 3974.72                       | 53.08               | 56.70             | 3.62             | 3921.10                               |
| MW - 6         | 12/10/03         | 3974.72                       | 52.82               | 56.33             | 3.51             | 3921.37                               |
| MW - 6         | 02/05/04         | 3974.72                       | 53.63               | 57.18             | 3.55             | 3920.56                               |
| MW - 6         | 02/17/04         | 3974.72                       | 52.89               | 56.34             | 3.45             | 3921.31                               |
| MW - 6         | 02/25/04         | 3974.72                       | 53.60               | 57.13             | 3.53             | 3920.59                               |
| MW - 6         | 03/09/04         | 3974.72                       | 52.91               | 56.40             | 3.49             | 3921.29                               |
| MW - 6         | 03/16/04         | 3974.72                       | 53.14               | 54.19             | 1.05             | 3921.42                               |
| MW - 6         | 03/22/04         | 3974.72                       | 53.04               | 55.22             | 2.18             | 3921.35                               |
| MW - 6         | 04/07/04         | 3974.72                       | 53.14               | 53.69             | 0.55             | 3921.50                               |
| MW - 6         | 04/12/04         | 3974.72                       | 53.50               | 56.43             | 2.93             | 3920.78                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 6         | 04/19/04         | 3974.72                       | 53.10               | 53.49             | 0.39             | 3921.56                               |
| MW - 6         | 05/05/04         | 3974.72                       | 53.04               | 56.06             | 3.02             | 3921.23                               |
| MW - 6         | 05/11/04         | 3974.72                       | 52.19               | 56.21             | 4.02             | 3921.93                               |
| MW - 6         | 06/07/04         | 3974.72                       | 52.77               | 55.87             | 3.10             | 3921.49                               |
| MW - 6         | 06/15/04         | 3974.72                       | 52.78               | 55.90             | 3.12             | 3921.47                               |
| MW - 6         | 06/20/04         | 3974.72                       | 52.78               | 55.90             | 3.12             | 3921.47                               |
| MW - 6         | 06/21/04         | 3974.72                       | 52.77               | 55.77             | 3.00             | 3921.50                               |
| MW - 6         | 06/28/04         | 3974.72                       | 52.77               | 55.91             | 3.14             | 3921.48                               |
| MW - 6         | 07/08/04         | 3974.72                       | 52.75               | 55.87             | 3.12             | 3921.50                               |
| MW - 6         | 07/12/04         | 3974.72                       | 52.76               | 55.90             | 3.14             | 3921.49                               |
| MW - 6         | 08/06/04         | 3974.72                       | 52.83               | 55.80             | 2.97             | 3921.44                               |
| MW - 6         | 08/12/04         | 3974.72                       | 52.85               | 55.82             | 2.97             | 3921.42                               |
| MW - 6         | 08/17/04         | 3974.72                       | 52.77               | 55.94             | 3.17             | 3921.47                               |
| MW - 6         | 09/01/04         | 3974.72                       | 53.21               | 54.22             | 1.01             | 3921.36                               |
| MW - 6         | 09/03/04         | 3974.72                       | 53.31               | 54.02             | 0.71             | 3921.30                               |
| MW - 6         | 09/08/04         | 3974.72                       | 52.16               | 53.52             | 1.36             | 3922.36                               |
| MW - 6         | 09/14/04         | 3974.72                       | 53.20               | 54.26             | 1.06             | 3921.36                               |
| MW - 6         | 09/22/04         | 3974.72                       | 53.22               | 54.14             | 0.92             | 3921.36                               |
| MW - 6         | 10/01/04         | 3974.72                       | 53.10               | 54.89             | 1.79             | 3921.35                               |
| MW - 6         | 10/08/04         | 3974.72                       | 53.25               | 54.05             | 0.80             | 3921.35                               |
| MW - 6         | 10/15/04         | 3974.72                       | 53.11               | 53.88             | 0.77             | 3921.49                               |
| MW - 6         | 10/22/04         | 3974.72                       | 53.05               | 54.55             | 1.50             | 3921.45                               |
| MW - 6         | 11/12/04         | 3974.72                       | 53.22               | 54.16             | 0.94             | 3921.36                               |
| MW - 6         | 11/26/04         | 3974.72                       | 53.11               | 54.55             | 1.44             | 3921.39                               |
| MW - 6         | 12/02/04         | 3974.72                       | 53.79               | 55.20             | 1.41             | 3920.72                               |
| MW - 6         | 12/06/04         | 3974.72                       | 53.87               | 54.96             | 1.09             | 3920.69                               |
| MW - 6         | 12/13/04         | 3974.72                       | 53.51               | 54.51             | 1.00             | 3921.06                               |
| MW - 6         | 12/15/04         | 3974.72                       | 53.51               | 54.51             | 1.00             | 3921.06                               |
| MW - 6         | 12/27/04         | 3974.72                       | 53.85               | 55.60             | 1.75             | 3920.61                               |
| MW - 6         | 01/10/05         | 3974.72                       | 53.02               | 54.20             | 1.18             | 3921.52                               |
| MW - 6         | 01/18/05         | 3974.72                       | 52.96               | 54.49             | 1.53             | 3921.53                               |
| MW - 6         | 01/18/05         | 3974.72                       | 53.14               | 53.52             | 0.38             | 3921.52                               |
| MW - 6         | 01/25/05         | 3974.72                       | 53.08               | 53.78             | 0.70             | 3921.54                               |
| MW - 6         | 01/27/05         | 3974.72                       | 53.21               | 53.42             | 0.21             | 3921.48                               |
| MW - 6         | 02/01/05         | 3974.72                       | 53.19               | 53.51             | 0.32             | 3921.48                               |
| MW - 6         | 02/07/05         | 3974.72                       | 53.14               | 53.54             | 0.40             | 3921.52                               |
| MW - 6         | 02/11/05         | 3974.72                       | 53.15               | 53.55             | 0.40             | 3921.51                               |
| MW - 6         | 02/15/05         | 3974.72                       | 53.10               | 53.52             | 0.42             | 3921.56                               |
| MW - 6         | 02/22/05         | 3974.72                       | 53.09               | 53.58             | 0.49             | 3921.56                               |
| MW - 6         | 02/24/05         | 3974.72                       | 53.08               | 53.65             | 0.57             | 3921.55                               |
| MW - 6         | 03/03/05         | 3974.72                       | 53.02               | 53.61             | 0.59             | 3921.61                               |
| MW - 6         | 03/09/05         | 3974.72                       | 53.02               | 53.64             | 0.62             | 3921.61                               |
| MW - 6         | 03/22/05         | 3974.72                       | 53.57               | 54.20             | 0.63             | 3921.06                               |
| MW - 6         | 03/24/05         | 3974.72                       | 53.57               | 54.20             | 0.63             | 3921.06                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 6         | 03/31/05         | 3974.72                       | 53.60               | 54.20             | 0.60             | 3921.03                               |
| MW - 6         | 06/22/05         | 3974.72                       | 52.91               | 53.92             | 1.01             | 3921.66                               |
| MW - 6         | 07/21/05         | 3974.72                       | 52.80               | 53.80             | 1.00             | 3921.77                               |
| MW - 6         | 08/03/05         | 3974.72                       | 52.82               | 53.70             | 0.88             | 3921.77                               |
| MW - 6         | 08/12/05         | 3974.72                       | 52.87               | 53.62             | 0.75             | 3921.74                               |
| MW - 6         | 08/15/05         | 3974.72                       | 52.91               | 53.30             | 0.39             | 3921.75                               |
| MW - 6         | 08/22/05         | 3974.72                       | 52.70               | 53.69             | 0.99             | 3921.87                               |
| MW - 6         | 09/07/05         | 3974.72                       | 52.67               | 54.31             | 1.64             | 3921.80                               |
| MW - 6         | 09/14/05         | 3974.72                       | 52.78               | 53.31             | 0.53             | 3921.86                               |
| MW - 6         | 09/20/05         | 3974.72                       | 52.75               | 53.91             | 1.16             | 3921.80                               |
| MW - 6         | 09/21/05         | 3974.72                       | 52.76               | 53.54             | 0.78             | 3921.84                               |
| MW - 6         | 09/28/05         | 3974.72                       | 52.70               | 54.00             | 1.30             | 3921.83                               |
| MW - 6         | 10/06/05         | 3974.72                       | 52.80               | 53.66             | 0.86             | 3921.79                               |
| MW - 6         | 10/13/05         | 3974.72                       | 52.80               | 53.51             | 0.71             | 3921.81                               |
| MW - 6         | 10/20/05         | 3974.72                       | 52.84               | 53.81             | 0.97             | 3921.73                               |
| MW - 6         | 10/26/05         | 3974.72                       | 52.83               | 53.42             | 0.59             | 3921.80                               |
| MW - 6         | 11/03/05         | 3974.72                       | 52.73               | 53.70             | 0.97             | 3921.84                               |
| MW - 6         | 11/10/05         | 3974.72                       | 52.68               | 53.99             | 1.31             | 3921.84                               |
| MW - 6         | 11/16/05         | 3974.72                       | 52.79               | 53.50             | 0.71             | 3921.82                               |
| MW - 6         | 11/23/05         | 3974.72                       | 52.80               | 53.45             | 0.65             | 3921.82                               |
| MW - 6         | 11/28/05         | 3974.72                       | 52.69               | 53.76             | 1.07             | 3921.87                               |
| MW - 6         | 12/05/05         | 3974.72                       | 52.80               | 53.53             | 0.73             | 3921.81                               |
| MW - 6         | 12/12/05         | 3974.72                       | 52.76               | 53.56             | 0.80             | 3921.84                               |
| MW - 6         | 12/16/05         | 3974.72                       | 52.97               | 53.56             | 0.59             | 3921.66                               |
| MW - 6         | 12/19/05         | 3974.72                       | 52.81               | 53.48             | 0.67             | 3921.81                               |
| MW - 6         | 12/29/05         | 3974.72                       | 52.79               | 53.53             | 0.74             | 3921.82                               |
| MW - 6         | 01/04/06         | 3974.72                       | 52.81               | 53.50             | 0.69             | 3921.81                               |
| MW - 6         | 01/10/06         | 3974.72                       | 52.72               | 53.50             | 0.78             | 3921.88                               |
| MW - 6         | 01/17/06         | 3974.72                       | 52.69               | 53.81             | 1.12             | 3921.86                               |
| MW - 6         | 01/26/06         | 3974.72                       | 52.68               | 53.83             | 1.15             | 3921.87                               |
| MW - 6         | 01/31/06         | 3974.72                       | 52.70               | 53.73             | 1.03             | 3921.87                               |
| MW - 6         | 02/07/06         | 3974.72                       | 52.73               | 53.60             | 0.87             | 3921.86                               |
| MW - 6         | 02/09/06         | 3974.72                       | 52.87               | 53.13             | 0.26             | 3921.81                               |
| MW - 6         | 02/13/06         | 3974.72                       | 52.73               | 53.51             | 0.78             | 3921.87                               |
| MW - 6         | 02/22/06         | 3974.72                       | 52.76               | 53.29             | 0.53             | 3921.88                               |
| MW - 6         | 02/28/06         | 3974.72                       | 52.75               | 53.28             | 0.53             | 3921.89                               |
| MW - 6         | 03/07/06         | 3974.72                       | 52.79               | 53.25             | 0.46             | 3921.86                               |
| MW - 6         | 03/15/06         | 3974.72                       | 52.72               | 53.37             | 0.65             | 3921.90                               |
| MW - 6         | 03/20/06         | 3974.72                       | 52.71               | 53.30             | 0.59             | 3921.92                               |
| MW - 6         | 03/22/06         | 3974.72                       | 52.94               | 52.95             | 0.01             | 3921.78                               |
| MW - 6         | 03/29/06         | 3974.72                       | 52.78               | 52.99             | 0.21             | 3921.91                               |
| MW - 6         | 04/11/06         | 3974.72                       | 52.72               | 53.17             | 0.45             | 3921.93                               |
| MW - 6         | 04/18/06         | 3974.72                       | 52.72               | 53.15             | 0.43             | 3921.94                               |
| MW - 6         | 04/25/06         | 3974.72                       | 52.79               | 52.93             | 0.14             | 3921.91                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 6      | 05/02/06      | 3974.72                 | 52.74            | 53.10          | 0.36          | 3921.93                         |
| MW - 6      | 05/09/06      | 3974.72                 | 52.72            | 53.03          | 0.31          | 3921.95                         |
| MW - 6      | 05/16/06      | 3974.72                 | 52.72            | 53.20          | 0.48          | 3921.93                         |
| MW - 6      | 05/23/06      | 3974.72                 | 52.74            | 53.15          | 0.41          | 3921.92                         |
| MW - 6      | 05/31/06      | 3974.72                 | 52.71            | 53.13          | 0.42          | 3921.95                         |
| MW - 6      | 06/06/06      | 3974.72                 | 52.71            | 53.10          | 0.39          | 3921.95                         |
| MW - 6      | 06/13/06      | 3974.72                 | 52.70            | 53.11          | 0.41          | 3921.96                         |
| MW - 6      | 06/20/06      | 3974.72                 | 52.71            | 53.13          | 0.42          | 3921.95                         |
| MW - 6      | 06/21/06      | 3974.72                 | 52.75            | 53.07          | 0.32          | 3921.92                         |
| MW - 6      | 07/06/06      | 3974.72                 | 52.68            | 53.31          | 0.63          | 3921.95                         |
| MW - 6      | 07/12/06      | 3974.72                 | 52.66            | 53.46          | 0.80          | 3921.94                         |
| MW - 6      | 07/20/06      | 3974.72                 | 52.65            | 53.27          | 0.62          | 3921.98                         |
| MW - 6      | 07/25/06      | 3974.72                 | 52.65            | 53.40          | 0.75          | 3921.96                         |
| MW - 6      | 08/01/06      | 3974.72                 | 52.68            | 53.34          | 0.66          | 3921.94                         |
| MW - 6      | 08/16/06      | 3974.72                 | 52.65            | 53.54          | 0.89          | 3921.94                         |
| MW - 6      | 08/23/06      | 3974.72                 | 52.67            | 53.42          | 0.75          | 3921.94                         |
| MW - 6      | 08/28/06      | 3974.72                 | 52.73            | 53.23          | 0.50          | 3921.92                         |
| MW - 6      | 09/12/06      | 3974.72                 | 52.25            | 53.52          | 1.27          | 3922.28                         |
| MW - 6      | 09/22/06      | 3974.72                 | 53.15            | 54.00          | 0.85          | 3921.44                         |
| MW - 6      | 09/27/06      | 3974.72                 | 52.67            | 53.18          | 0.51          | 3921.97                         |
| MW - 6      | 10/06/06      | 3974.72                 | 52.61            | 53.54          | 0.93          | 3921.97                         |
| MW - 6      | 10/10/06      | 3974.72                 | 52.70            | 53.20          | 0.50          | 3921.95                         |
| MW - 6      | 10/16/06      | 3974.72                 | 52.69            | 53.21          | 0.52          | 3921.95                         |
| MW - 6      | 10/26/06      | 3974.72                 | 52.65            | 53.40          | 0.75          | 3921.96                         |
| MW - 6      | 11/03/06      | 3974.72                 | 52.64            | 53.30          | 0.66          | 3921.98                         |
| MW - 6      | 11/09/06      | 3974.72                 | 52.65            | 53.25          | 0.60          | 3921.98                         |
| MW - 6      | 11/16/06      | 3974.72                 | 52.68            | 53.21          | 0.53          | 3921.96                         |
| MW - 6      | 11/22/06      | 3974.72                 | 52.67            | 53.17          | 0.50          | 3921.98                         |
| MW - 6      | 12/04/06      | 3974.72                 | 52.63            | 53.39          | 0.76          | 3921.98                         |
| MW - 6      | 12/08/06      | 3974.72                 | 52.59            | 53.49          | 0.90          | 3922.00                         |
| MW - 6      | 12/15/06      | 3974.72                 | 52.64            | 53.23          | 0.59          | 3921.99                         |
| MW - 6      | 01/05/07      | 3974.72                 | 52.53            | 53.63          | 1.10          | 3922.03                         |
| MW - 6      | 01/12/07      | 3974.72                 | 52.63            | 53.23          | 0.60          | 3922.00                         |
| MW - 6      | 01/18/07      | 3974.72                 | 52.66            | 53.19          | 0.53          | 3921.98                         |
| MW - 6      | 01/24/07      | 3974.72                 | 52.65            | 53.17          | 0.52          | 3921.99                         |
| MW - 6      | 01/29/07      | 3974.72                 | 52.65            | 53.14          | 0.49          | 3922.00                         |
| MW - 6      | 02/09/07      | 3974.72                 | 52.61            | 53.28          | 0.67          | 3922.01                         |
| MW - 6      | 02/16/07      | 3974.72                 | 52.62            | 53.24          | 0.62          | 3922.01                         |
| MW - 6      | 02/23/07      | 3974.72                 | 52.60            | 53.13          | 0.53          | 3922.04                         |
| MW - 6      | 03/02/07      | 3974.72                 | 52.57            | 53.40          | 0.83          | 3922.03                         |
| MW - 6      | 03/14/07      | 3974.72                 | 52.60            | 53.16          | 0.56          | 3922.04                         |
| MW - 6      | 03/26/07      | 3974.72                 | 52.57            | 53.33          | 0.76          | 3922.04                         |
| MW - 6      | 04/03/07      | 3974.72                 | 52.55            | 53.42          | 0.87          | 3922.04                         |
| MW - 6      | 04/09/07      | 3974.72                 | 52.60            | 53.21          | 0.61          | 3922.03                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 6         | 04/26/07         | 3974.72                       | 52.51               | 53.52             | 1.01             | 3922.06                               |
| MW - 6         | 04/30/07         | 3974.72                       | 52.61               | 54.03             | 1.42             | 3921.90                               |
| MW - 6         | 05/11/07         | 3974.72                       | 52.55               | 53.26             | 0.71             | 3922.06                               |
| MW - 6         | 05/16/07         | 3974.72                       | 52.62               | 53.00             | 0.38             | 3922.04                               |
| MW - 6         | 05/22/07         | 3974.72                       | 52.60               | 53.09             | 0.49             | 3922.05                               |
| MW - 6         | 05/29/07         | 3974.72                       | 52.57               | 53.14             | 0.57             | 3922.06                               |
| MW - 6         | 06/01/07         | 3974.72                       | 52.56               | 53.26             | 0.70             | 3922.06                               |
| MW - 6         | 06/08/07         | 3974.72                       | 52.56               | 53.11             | 0.55             | 3922.08                               |
| MW - 6         | 06/11/07         | 3974.72                       | 52.57               | 52.95             | 0.38             | 3922.09                               |
| MW - 6         | 06/20/07         | 3974.72                       | 52.55               | 53.20             | 0.65             | 3922.07                               |
| MW - 6         | 07/10/07         | 3974.72                       | 52.51               | 53.31             | 0.80             | 3922.09                               |
| MW - 6         | 07/11/07         | 3974.72                       | 52.14               | 53.50             | 1.36             | 3922.38                               |
| MW - 6         | 07/25/07         | 3974.72                       | 52.52               | 53.25             | 0.73             | 3922.09                               |
| MW - 6         | 08/01/07         | 3974.72                       | 52.54               | 53.14             | 0.60             | 3922.09                               |
| MW - 6         | 08/10/07         | 3974.72                       | 52.54               | 53.14             | 0.60             | 3922.09                               |
| MW - 6         | 08/15/07         | 3974.72                       | 52.56               | 53.00             | 0.44             | 3922.09                               |
| MW - 6         | 08/30/07         | 3974.72                       | 52.49               | 53.32             | 0.83             | 3922.11                               |
| MW - 6         | 08/31/07         | 3974.72                       | 52.49               | 53.22             | 0.73             | 3922.12                               |
| MW - 6         | 09/10/07         | 3974.72                       | 52.45               | 53.60             | 1.15             | 3922.10                               |
| MW - 6         | 09/19/07         | 3974.72                       | 52.43               | 53.60             | 1.17             | 3922.11                               |
| MW - 6         | 10/01/07         | 3974.72                       | 52.53               | 53.29             | 0.76             | 3922.08                               |
| MW - 6         | 10/19/07         | 3974.72                       | 52.45               | 53.60             | 1.15             | 3922.10                               |
| MW - 6         | 11/12/07         | 3974.72                       | 52.41               | 53.50             | 1.09             | 3922.15                               |
| MW - 6         | 03/07/08         | 3974.72                       | 52.36               | 53.65             | 1.29             | 3922.17                               |
| MW - 6         | 3/12/08 #1       | 3974.72                       | 52.36               | 53.65             | 1.29             | 3922.17                               |
| MW - 6         | 3/12/08#2        | 3974.72                       | 52.50               | 52.67             | 0.17             | 3922.19                               |
| MW - 6         | 3/20/2008 #1     | 3974.72                       | 52.45               | 53.09             | 0.64             | 3922.17                               |
| MW - 6         | 3/20/08#2        | 3974.72                       | 52.42               | 53.12             | 0.70             | 3922.20                               |
| MW - 6         | 3/23/08 #1       | 3974.72                       | 52.43               | 53.02             | 0.59             | 3922.20                               |
| MW - 6         | 3/23/08 #2       | 3974.72                       | 52.51               | 52.61             | 0.10             | 3922.20                               |
| MW - 6         | 4/2/08 #1        | 3974.72                       | 52.50               | 52.98             | 0.48             | 3922.15                               |
| MW - 6         | 4/2/08 #2        | 3974.72                       | 52.49               | 52.72             | 0.23             | 3922.20                               |
| MW - 6         | 4/9/08 #1        | 3974.72                       | 52.41               | 52.95             | 0.54             | 3922.23                               |
| MW - 6         | 4/9/08 #2        | 3974.72                       | 52.48               | 52.65             | 0.17             | 3922.21                               |
| MW - 6         | 04/16/08         | 3974.72                       | 52.42               | 52.97             | 0.55             | 3922.22                               |
| MW - 6         | 04/23/08         | 3974.72                       | 52.44               | 52.91             | 0.47             | 3922.21                               |
| MW - 6         | 04/30/08         | 3974.72                       | 52.42               | 52.93             | 0.51             | 3922.22                               |
| MW - 6         | 05/29/08         | 3974.72                       | 52.39               | 52.96             | 0.57             | 3922.24                               |
| MW - 6         | 06/02/08         | 3974.72                       | 52.42               | 52.82             | 0.40             | 3922.24                               |
| MW - 6         | 06/03/08         | 3974.72                       | 52.42               | 52.82             | 0.40             | 3922.24                               |
| MW - 6         | 06/11/08         | 3974.72                       | 52.40               | 52.99             | 0.59             | 3922.23                               |
| MW - 6         | 06/18/08         | 3974.72                       | 52.43               | 52.89             | 0.46             | 3922.22                               |
| MW - 6         | 06/23/08         | 3974.72                       | 52.42               | 52.79             | 0.37             | 3922.24                               |
| MW - 6         | 07/01/08         | 3974.72                       | 52.41               | 52.97             | 0.56             | 3922.23                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 6      | 07/09/08      | 3974.72                 | 52.42            | 52.95          | 0.53          | 3922.22                         |
| MW - 6      | 07/15/08      | 3974.72                 | 52.42            | 52.85          | 0.43          | 3922.24                         |
| MW - 6      | 07/22/08      | 3974.72                 | 52.38            | 53.00          | 0.62          | 3922.25                         |
| MW - 6      | 08/02/08      | 3974.72                 | 52.36            | 53.10          | 0.74          | 3922.25                         |
| MW - 6      | 08/13/08      | 3974.72                 | 52.36            | 53.18          | 0.82          | 3922.24                         |
| MW - 6      | 09/03/08      | 3974.72                 | 52.29            | 53.47          | 1.18          | 3922.25                         |
| MW - 6      | 09/11/08      | 3974.72                 | 52.41            | 52.91          | 0.50          | 3922.24                         |
| MW - 6      | 09/19/08      | 3974.72                 | 52.40            | 52.89          | 0.49          | 3922.25                         |
| MW - 6      | 09/26/08      | 3974.72                 | 52.38            | 52.92          | 0.54          | 3922.26                         |
| MW - 6      | 10/10/08      | 3974.72                 | 52.39            | 52.91          | 0.52          | 3922.25                         |
| MW - 6      | 10/17/08      | 3974.72                 | 52.41            | 52.81          | 0.40          | 3922.25                         |
| MW - 6      | 10/21/08      | 3974.72                 | 52.42            | 52.74          | 0.32          | 3922.25                         |
| MW - 6      | 10/30/08      | 3974.72                 | 52.38            | 52.90          | 0.52          | 3922.26                         |
| MW - 6      | 11/04/08      | 3974.72                 | 52.42            | 52.78          | 0.36          | 3922.25                         |
| MW - 6      | 11/18/08      | 3974.72                 | 52.37            | 53.05          | 0.68          | 3922.25                         |
| MW - 6      | 11/25/08      | 3974.72                 | 52.40            | 52.87          | 0.47          | 3922.25                         |
| MW - 6      | 11/25/08      | 3974.72                 | -                | 52.80          | 0.00          | 3921.92                         |
| MW - 6      | 12/10/08      | 3974.72                 | 52.33            | 53.09          | 0.76          | 3922.28                         |
| MW - 6      | 12/18/08      | 3974.72                 | 52.31            | 53.19          | 0.88          | 3922.28                         |
| MW - 6      | 01/06/09      | 3974.72                 | 52.32            | 53.17          | 0.85          | 3922.27                         |
| MW - 6      | 01/14/09      | 3974.72                 | 52.41            | 52.97          | 0.56          | 3922.23                         |
| MW - 6      | 01/21/09      | 3974.72                 | 52.41            | 52.79          | 0.38          | 3922.25                         |
| MW - 6      | 01/22/09      | 3974.72                 | 52.38            | 52.73          | 0.35          | 3922.29                         |
| MW - 6      | 01/30/09      | 3974.72                 | 52.38            | 52.82          | 0.44          | 3922.27                         |
| MW - 6      | 02/03/09      | 3974.72                 | 52.40            | 52.71          | 0.31          | 3922.27                         |
| MW - 6      | 02/12/09      | 3974.72                 | 52.39            | 52.90          | 0.51          | 3922.25                         |
| MW - 6      | 02/19/09      | 3974.72                 | 52.39            | 52.94          | 0.55          | 3922.25                         |
| MW - 6      | 03/04/09      | 3974.72                 | 52.42            | 52.96          | 0.54          | 3922.22                         |
| MW - 6      | 03/06/09      | 3974.72                 | 52.31            | 53.03          | 0.72          | 3922.30                         |
| MW - 6      | 03/11/09      | 3974.72                 | 52.37            | 52.82          | 0.45          | 3922.28                         |
| MW - 6      | 03/16/09      | 3974.72                 | 52.45            | 53.00          | 0.55          | 3922.19                         |
| MW - 6      | 03/19/09      | 3974.72                 | 52.37            | 52.79          | 0.42          | 3922.29                         |
| MW - 6      | 03/24/09      | 3974.72                 | 52.29            | 52.81          | 0.52          | 3922.35                         |
| MW - 6      | 04/03/09      | 3974.72                 | 52.31            | 53.01          | 0.70          | 3922.31                         |
| MW - 6      | 04/15/09      | 3974.72                 | 52.28            | 53.12          | 0.84          | 3922.31                         |
| MW - 6      | 04/17/09      | 3974.72                 | 52.39            | 52.63          | 0.24          | 3922.29                         |
| MW - 6      | 04/22/09      | 3974.72                 | 52.31            | 53.00          | 0.69          | 3922.31                         |
| MW - 6      | 04/29/09      | 3974.72                 | 52.34            | 52.82          | 0.48          | 3922.31                         |
| MW - 6      | 05/20/09      | 3974.72                 | 52.32            | 52.95          | 0.63          | 3922.31                         |
| MW - 6      | 05/20/09      | 3974.72                 | 52.32            | 52.95          | 0.63          | 3922.31                         |
| MW - 6      | 06/09/09      | 3974.72                 | 52.29            | 52.95          | 0.66          | 3922.33                         |
| MW - 6      | 06/17/09      | 3974.72                 | 52.35            | 52.80          | 0.45          | 3922.30                         |
| MW - 6      | 06/23/09      | 3974.72                 | 52.32            | 53.00          | 0.68          | 3922.30                         |
| MW - 6      | 07/01/09      | 3974.72                 | 52.33            | 52.82          | 0.49          | 3922.32                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 6         | 07/08/09         | 3974.72                       | 52.38               | 52.67             | 0.29             | 3922.30                               |
| MW - 6         | 07/15/09         | 3974.72                       | 52.35               | 52.68             | 0.33             | 3922.32                               |
| MW - 6         | 07/17/09         | 3974.72                       | 52.39               | 52.65             | 0.26             | 3922.29                               |
| MW - 6         | 07/23/09         | 3974.72                       | 52.38               | 52.65             | 0.27             | 3922.30                               |
| MW - 6         | 07/24/09         | 3974.72                       | 52.40               | 52.50             | 0.10             | 3922.31                               |
| MW - 6         | 07/30/09         | 3974.72                       | 52.36               | 52.61             | 0.25             | 3922.32                               |
| MW - 6         | 08/04/09         | 3974.72                       | 52.38               | 52.62             | 0.24             | 3922.30                               |
| MW - 6         | 08/12/09         | 3974.72                       | 52.35               | 52.73             | 0.38             | 3922.31                               |
| MW - 6         | 08/20/09         | 3974.72                       | 52.30               | 52.83             | 0.53             | 3922.34                               |
| MW - 6         | 08/26/09         | 3974.72                       | 52.31               | 52.96             | 0.65             | 3922.31                               |
| MW - 6         | 09/02/09         | 3974.72                       | 52.35               | 52.72             | 0.37             | 3922.31                               |
| MW - 6         | 09/09/09         | 3974.72                       | 52.36               | 52.64             | 0.28             | 3922.32                               |
| MW - 6         | 09/14/09         | 3974.72                       | 52.37               | 52.63             | 0.26             | 3922.31                               |
| MW - 6         | 09/21/09         | 3974.72                       | 52.36               | 52.69             | 0.33             | 3922.31                               |
| MW - 6         | 10/01/09         | 3974.72                       | 52.38               | 52.75             | 0.37             | 3922.28                               |
| MW - 6         | 10/08/09         | 3974.72                       | 52.38               | 52.75             | 0.37             | 3922.28                               |
| MW - 6         | 10/14/09         | 3974.72                       | 52.38               | 52.67             | 0.29             | 3922.30                               |
| MW - 6         | 10/21/09         | 3974.72                       | 52.31               | 52.88             | 0.57             | 3922.32                               |
| MW - 6         | 10/28/09         | 3974.72                       | 52.34               | 52.67             | 0.33             | 3922.33                               |
| MW - 6         | 11/04/09         | 3974.72                       | 52.36               | 52.62             | 0.26             | 3922.32                               |
| MW - 6         | 11/11/09         | 3974.72                       | 52.32               | 52.60             | 0.28             | 3922.36                               |
| MW - 6         | 11/18/09         | 3974.72                       | 52.35               | 52.65             | 0.30             | 3922.33                               |
| MW - 6         | 11/25/09         | 3974.72                       | 52.36               | 52.68             | 0.32             | 3922.31                               |
| MW - 6         | 12/02/09         | 3974.72                       | 52.36               | 52.65             | 0.29             | 3922.32                               |
| MW - 6         | 12/10/09         | 3974.72                       | 52.35               | 52.66             | 0.31             | 3922.32                               |
| MW - 6         | 12/17/09         | 3974.72                       | 52.41               | 52.68             | 0.27             | 3922.27                               |
| MW - 6         | 12/21/09         | 3974.72                       | 52.36               | 52.54             | 0.18             | 3922.33                               |
| MW - 6         | 12/30/09         | 3974.72                       | 52.40               | 52.79             | 0.39             | 3922.26                               |
| MW - 6         | 01/07/10         | 3974.72                       | 52.35               | 52.55             | 0.20             | 3922.34                               |
| MW - 6         | 01/18/10         | 3974.72                       | 52.40               | 52.52             | 0.12             | 3922.30                               |
| MW - 6         | 02/02/10         | 3974.72                       | 52.29               | 52.86             | 0.57             | 3922.34                               |
| MW - 6         | 02/11/10         | 3974.72                       | 52.30               | 52.61             | 0.31             | 3922.37                               |
| MW - 6         | 02/18/10         | 3974.72                       | 52.30               | 52.68             | 0.38             | 3922.36                               |
| MW - 6         | 02/25/10         | 3974.72                       | 52.41               | 52.61             | 0.20             | 3922.28                               |
| MW - 6         | 03/02/10         | 3974.72                       | 52.43               | 52.58             | 0.15             | 3922.27                               |
| MW - 6         | 03/04/10         | 3974.72                       | 52.46               | 52.56             | 0.10             | 3922.25                               |
| MW - 6         | 03/10/10         | 3974.72                       | 52.37               | 52.53             | 0.16             | 3922.33                               |
| MW - 6         | 03/12/10         | 3974.72                       | 52.43               | 52.56             | 0.13             | 3922.27                               |
| MW - 6         | 03/15/10         | 3974.72                       | 52.36               | 52.50             | 0.14             | 3922.34                               |
| MW - 6         | 03/18/10         | 3974.72                       | 52.35               | 52.46             | 0.11             | 3922.35                               |
| MW - 6         | 03/22/10         | 3974.72                       | 52.41               | 52.54             | 0.13             | 3922.29                               |
| MW - 6         | 03/24/10         | 3974.72                       | sheen               | 52.54             | 0.00             | 3922.18                               |
| MW - 6         | 03/30/10         | 3974.72                       | sheen               | 52.55             | 0.00             | 3922.17                               |
| MW - 6         | 04/07/10         | 3974.72                       | sheen               | 52.53             | 0.00             | 3922.19                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 6      | 04/12/10      | 3974.72                 | sheen            | 52.41          | 0.00          | 3922.31                         |
| MW - 6      | 04/16/10      | 3974.72                 | sheen            | 52.89          | 0.00          | 3921.83                         |
| MW - 6      | 04/20/10      | 3974.72                 | sheen            | 53.00          | 0.00          | 3921.72                         |
| MW - 6      | 04/27/10      | 3974.72                 | sheen            | 52.84          | 0.00          | 3921.88                         |
| MW - 6      | 04/30/10      | 3974.72                 | sheen            | 52.82          | 0.00          | 3921.90                         |
| MW - 6      | 05/12/10      | 3974.72                 | sheen            | 52.74          | 0.00          | 3921.98                         |
| MW - 6      | 05/14/10      | 3974.72                 | sheen            | 52.84          | 0.00          | 3921.88                         |
| MW - 6      | 05/17/10      | 3974.72                 | sheen            | 52.96          | 0.00          | 3921.76                         |
| MW - 6      | 05/20/10      | 3974.72                 | sheen            | 52.73          | 0.00          | 3921.99                         |
| MW - 6      | 05/25/10      | 3974.72                 | sheen            | 52.57          | 0.00          | 3922.15                         |
| MW - 6      | 06/01/10      | 3974.72                 | sheen            | 52.28          | 0.00          | 3922.44                         |
| MW - 6      | 06/09/10      | 3974.72                 | sheen            | 52.60          | 0.00          | 3922.12                         |
| MW - 6      | 06/16/10      | 3974.72                 | sheen            | 52.56          | 0.00          | 3922.16                         |
| MW - 6      | 06/28/10      | 3974.72                 | sheen            | 52.63          | 0.00          | 3922.09                         |
| MW - 6      | 07/09/10      | 3974.72                 | sheen            | 52.54          | 0.00          | 3922.18                         |
| MW - 6      | 07/14/10      | 3974.72                 | sheen            | 52.36          | 0.00          | 3922.36                         |
| MW - 6      | 07/23/10      | 3974.72                 | sheen            | 52.42          | 0.00          | 3922.30                         |
| MW - 6      | 07/29/10      | 3974.72                 | sheen            | 52.43          | 0.00          | 3922.29                         |
| MW - 6      | 08/05/10      | 3974.72                 | sheen            | 52.40          | 0.00          | 3922.32                         |
| MW - 6      | 08/12/10      | 3974.72                 | sheen            | 52.46          | 0.00          | 3922.26                         |
| MW - 6      | 08/16/10      | 3974.72                 | sheen            | 52.46          | 0.00          | 3922.26                         |
| MW - 6      | 08/18/10      | 3974.72                 | sheen            | 52.35          | 0.00          | 3922.37                         |
| MW - 6      | 08/25/10      | 3974.72                 | sheen            | 52.42          | 0.00          | 3922.30                         |
| MW - 6      | 09/02/10      | 3974.72                 | sheen            | 52.29          | 0.00          | 3922.43                         |
| MW - 6      | 09/08/10      | 3974.72                 | sheen            | 52.46          | 0.00          | 3922.26                         |
| MW - 6      | 09/30/10      | 3974.72                 | sheen            | 52.37          | 0.00          | 3922.35                         |
| MW - 6      | 10/07/10      | 3974.72                 | sheen            | 52.45          | 0.00          | 3922.27                         |
| MW - 6      | 10/14/10      | 3974.72                 | sheen            | 52.75          | 0.00          | 3921.97                         |
| MW - 6      | 10/21/10      | 3974.72                 | sheen            | 52.73          | 0.00          | 3921.99                         |
| MW - 6      | 11/04/10      | 3974.72                 | sheen            | 52.35          | 0.00          | 3922.37                         |
| MW - 6      | 11/10/10      | 3974.72                 | sheen            | 52.73          | 0.00          | 3921.99                         |
| MW - 6      | 12/01/10      | 3974.72                 | sheen            | 52.41          | 0.00          | 3922.31                         |
| MW - 6      | 12/08/10      | 3974.72                 | sheen            | 52.44          | 0.00          | 3922.28                         |
| MW - 6      | 01/26/11      | 3974.72                 | sheen            | 52.45          | 0.00          | 3922.27                         |
| MW - 6      | 02/28/11      | 3974.72                 | -                | 52.72          | 0.00          | 3922.00                         |
| MW - 6      | 03/04/11      | 3974.72                 | 52.41            | 52.45          | 0.04          | 3922.30                         |
| MW - 6      | 03/09/11      | 3974.72                 | 52.52            | 52.58          | 0.06          | 3922.19                         |
| MW - 6      | 04/28/11      | 3974.72                 | 52.38            | 52.47          | 0.09          | 3922.33                         |
| MW - 6      | 05/04/11      | 3974.72                 | 52.35            | 52.40          | 0.05          | 3922.36                         |
| MW - 6      | 05/11/11      | 3974.72                 | 52.46            | 52.49          | 0.03          | 3922.26                         |
| MW - 6      | 05/12/11      | 3974.72                 | -                | 52.44          | 0.00          | 3922.28                         |
| MW - 6      | 05/18/11      | 3974.72                 | -                | 52.35          | 0.00          | 3922.37                         |
| MW - 6      | 05/23/11      | 3974.72                 | 52.29            | 52.49          | 0.20          | 3922.40                         |
| MW - 6      | 06/08/11      | 3974.72                 | -                | 52.51          | 0.00          | 3922.21                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 6         | 06/16/11         | 3974.72                       | 52.30               | 52.41             | 0.11             | 3922.40                               |
| MW - 6         | 06/22/11         | 3974.72                       | 52.32               | 52.41             | 0.09             | 3922.39                               |
| MW - 6         | 06/30/11         | 3974.72                       | 52.40               | 52.64             | 0.24             | 3922.28                               |
| MW - 6         | 07/06/11         | 3974.72                       | -                   | 52.37             | 0.00             | 3922.35                               |
| MW - 6         | 07/13/11         | 3974.72                       | -                   | 52.40             | 0.00             | 3922.32                               |
| MW - 6         | 07/15/11         | 3974.72                       | -                   | 52.46             | 0.00             | 3922.26                               |
| MW - 6         | 07/19/11         | 3974.72                       | -                   | 52.46             | 0.00             | 3922.26                               |
| MW - 6         | 07/21/11         | 3974.72                       | -                   | 52.38             | 0.00             | 3922.34                               |
| MW - 6         | 07/26/11         | 3974.72                       | -                   | 52.43             | 0.00             | 3922.29                               |
| MW - 6         | 07/28/11         | 3974.72                       | -                   | 52.42             | 0.00             | 3922.30                               |
| MW - 6         | 08/02/11         | 3974.72                       | -                   | 52.64             | 0.00             | 3922.08                               |
| MW - 6         | 08/09/11         | 3974.72                       | -                   | 52.48             | 0.00             | 3922.24                               |
| MW - 6         | 08/12/11         | 3974.72                       | -                   | 52.60             | 0.00             | 3922.12                               |
| MW - 6         | 08/15/11         | 3974.72                       | -                   | 52.60             | 0.00             | 3922.12                               |
| MW - 6         | 08/16/11         | 3974.72                       | -                   | 52.42             | 0.00             | 3922.30                               |
| MW - 6         | 08/19/11         | 3974.72                       | -                   | 52.50             | 0.00             | 3922.22                               |
| MW - 6         | 08/23/11         | 3974.72                       | -                   | 52.55             | 0.00             | 3922.17                               |
| MW - 6         | 08/26/11         | 3974.72                       | -                   | 52.57             | 0.00             | 3922.15                               |
| MW - 6         | 08/30/11         | 3974.72                       | -                   | 52.38             | 0.00             | 3922.34                               |
| MW - 6         | 09/01/11         | 3974.72                       | -                   | 52.42             | 0.00             | 3922.30                               |
| MW - 6         | 09/08/11         | 3974.72                       | -                   | 52.64             | 0.00             | 3922.08                               |
| MW - 6         | 09/13/11         | 3974.72                       | -                   | 52.54             | 0.00             | 3922.18                               |
| MW - 6         | 09/15/11         | 3974.72                       | -                   | 52.60             | 0.00             | 3922.12                               |
| MW - 6         | 09/22/11         | 3974.72                       | -                   | 52.46             | 0.00             | 3922.26                               |
| MW - 6         | 10/06/11         | 3974.72                       | -                   | 52.46             | 0.00             | 3922.26                               |
| MW - 6         | 10/11/11         | 3974.72                       | -                   | 52.45             | 0.00             | 3922.27                               |
| MW - 6         | 10/13/11         | 3974.72                       | 52.60               | 52.64             | 0.04             | 3922.11                               |
| MW - 6         | 10/26/11         | 3974.72                       | 52.41               | 52.64             | 0.23             | 3922.28                               |
| MW - 6         | 11/22/11         | 3974.72                       | -                   | 52.57             | 0.00             | 3922.15                               |
| MW - 6         | 12/02/11         | 3974.72                       | -                   | 52.41             | 0.00             | 3922.31                               |
| MW - 6         | 12/29/11         | 3974.72                       | -                   | 52.35             | 0.00             | 3922.37                               |
| MW - 6         | 01/26/12         | 3974.72                       | -                   | 52.57             | 0.00             | 3922.15                               |
| MW - 6         | 01/31/12         | 3974.72                       | -                   | 52.44             | 0.00             | 3922.28                               |
| MW - 6         | 02/15/12         | 3974.72                       | -                   | 52.38             | 0.00             | 3922.34                               |
| MW - 6         | 02/28/12         | 3974.72                       | -                   | 52.37             | 0.00             | 3922.35                               |
| MW - 6         | 03/20/12         | 3974.72                       | 52.43               | 52.59             | 0.16             | 3922.27                               |
| MW - 6         | 03/27/12         | 3974.72                       | 52.44               | 52.61             | 0.17             | 3922.25                               |
| MW - 6         | 04/10/12         | 3974.72                       | 52.45               | 52.70             | 0.25             | 3922.23                               |
| MW - 6         | 04/19/12         | 3974.72                       | 52.44               | 52.67             | 0.23             | 3922.25                               |
| MW - 6         | 04/26/12         | 3974.72                       | 52.32               | 52.46             | 0.14             | 3922.38                               |
| MW - 6         | 05/08/12         | 3974.72                       | 52.33               | 52.47             | 0.14             | 3922.37                               |
| MW - 6         | 05/15/12         | 3974.72                       | 52.31               | 52.63             | 0.32             | 3922.36                               |
| MW - 6         | 05/17/12         | 3974.72                       | 52.30               | 52.62             | 0.32             | 3922.37                               |
| MW - 6         | 06/05/12         | 3974.72                       | 52.33               | 52.78             | 0.45             | 3922.32                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 6         | 06/21/12         | 3974.72                       | 52.33               | 52.89             | 0.56             | 3922.31                               |
| MW - 6         | 06/28/12         | 3974.72                       | 52.32               | 52.94             | 0.62             | 3922.31                               |
| MW - 6         | 07/17/12         | 3974.72                       | 52.31               | 52.97             | 0.66             | 3922.31                               |
| MW - 6         | 08/01/12         | 3974.72                       | 52.42               | 52.73             | 0.31             | 3922.25                               |
| MW - 6         | 10/02/12         | 3974.72                       | 52.41               | 53.29             | 0.88             | 3922.18                               |
| MW - 6         | 10/09/12         | 3974.72                       | 52.58               | 52.88             | 0.30             | 3922.10                               |
| MW - 6         | 10/16/12         | 3974.72                       | 52.47               | 52.83             | 0.36             | 3922.20                               |
| MW - 6         | 10/25/12         | 3974.72                       | 52.46               | 52.90             | 0.44             | 3922.19                               |
| MW - 6         | 10/30/12         | 3974.72                       | 52.46               | 52.95             | 0.49             | 3922.19                               |
| MW - 6         | 11/29/12         | 3974.72                       | 52.54               | 53.10             | 0.56             | 3922.10                               |
| MW - 6         | 12/14/12         | 3974.72                       | 52.48               | 53.09             | 0.61             | 3922.15                               |
| MW - 6         | 02/11/13         | 3974.72                       | 52.41               | 53.08             | 0.67             | 3922.21                               |
| MW - 6         | 03/18/13         | 3974.72                       | 52.52               | 52.74             | 0.22             | 3922.17                               |
| MW - 6         | 04/11/13         | 3974.72                       | 52.89               | 52.90             | 0.01             | 3921.83                               |
| MW - 6         | 05/06/13         | 3974.72                       | 52.53               | 52.60             | 0.07             | 3922.18                               |
| MW - 6         | 05/29/13         | 3974.72                       | 52.89               | 52.91             | 0.02             | 3921.83                               |
| MW - 6         | 06/26/13         | 3974.72                       | -                   | 52.90             | 0.00             | 3921.82                               |
| MW - 6         | 07/31/13         | 3974.72                       | -                   | 52.76             | 0.00             | 3921.96                               |
| MW - 6         | 08/06/13         | 3974.72                       | 52.72               | 52.73             | 0.01             | 3922.00                               |
| MW - 6         | 09/30/13         | 3974.72                       | 52.78               | 52.79             | 0.01             | 3921.94                               |
| MW - 6         | 11/18/13         | 3974.72                       | 52.66               | 52.71             | 0.05             | 3922.05                               |
| MW - 6         | 02/04/14         | 3974.72                       | 52.62               | 52.72             | 0.10             | 3922.09                               |
| MW - 6         | 04/28/14         | 3974.72                       | 52.66               | 52.74             | 0.08             | 3922.05                               |
| MW - 6         | 05/28/14         | 3974.72                       | 52.83               | 52.85             | 0.02             | 3921.89                               |
| MW - 6         | 07/30/14         | 3974.72                       | 52.84               | 52.96             | 0.12             | 3921.86                               |
| MW - 6         | 08/23/14         | 3974.72                       | 52.97               | 53.04             | 0.07             | 3921.74                               |
| MW - 6         | 09/10/14         | 3974.72                       | 52.85               | 53.00             | 0.15             | 3921.85                               |
| MW - 6         | 09/23/14         | 3974.72                       | 52.90               | 52.98             | 0.08             | 3921.81                               |
| MW - 6         | 10/31/14         | 3974.72                       | 52.79               | 52.87             | 0.08             | 3921.92                               |
| MW - 6         | 11/18/14         | 3974.72                       | 52.81               | 52.85             | 0.04             | 3921.90                               |
| MW - 6         | 01/05/15         | 3974.72                       | 52.78               | 53.04             | 0.26             | 3921.90                               |
| MW - 6         | 01/09/15         | 3974.72                       | 52.74               | 52.80             | 0.06             | 3921.97                               |
| MW - 6         | 01/14/15         | 3974.72                       | 52.75               | 52.81             | 0.06             | 3921.96                               |
| MW - 6         | 01/21/15         | 3974.72                       | 52.77               | 53.06             | 0.29             | 3921.91                               |
| MW - 6         | 02/19/15         | 3974.72                       | -                   | 52.85             | 0.00             | 3921.87                               |
| MW - 6         | 03/09/15         | 3974.72                       | 52.78               | 53.06             | 0.28             | 3921.90                               |
| MW - 6         | 03/11/15         | 3974.72                       | 52.75               | 52.83             | 0.08             | 3921.96                               |
| MW - 6         | 03/31/15         | 3974.72                       | 52.79               | 53.10             | 0.31             | 3921.88                               |
| MW - 6         | 04/09/15         | 3974.72                       | -                   | 52.75             | 0.00             | 3921.97                               |
| MW - 6         | 04/15/15         | 3974.72                       | -                   | 52.75             | 0.00             | 3921.97                               |
| MW - 6         | 04/22/15         | 3974.72                       | -                   | 52.76             | 0.00             | 3921.96                               |
| MW - 6         | 05/12/15         | 3974.72                       | 52.72               | 52.76             | 0.04             | 3921.99                               |
| MW - 6         | 05/26/15         | 3974.72                       | 52.78               | 52.97             | 0.19             | 3921.91                               |
| MW - 6         | 06/01/15         | 3974.72                       | 52.74               | 52.78             | 0.04             | 3921.97                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 6      | 06/04/15      | 3974.72                 | 52.75            | 52.84          | 0.09          | 3921.96                         |
| MW - 6      | 07/27/15      | 3974.72                 | -                | 53.26          | 0.00          | 3921.46                         |
| MW - 6      | 08/18/15      | 3974.72                 | -                | 52.75          | 0.00          | 3921.97                         |
| MW - 6      | 10/08/15      | 3974.72                 | -                | 53.34          | 0.00          | 3921.38                         |
| MW - 6      | 10/21/15      | 3974.72                 | -                | 52.83          | 0.00          | 3921.89                         |
| MW - 6      | 11/23/15      | 3974.72                 | -                | 52.80          | 0.00          | 3921.92                         |
|             |               |                         |                  |                |               |                                 |
| MW - 7      | 03/02/00      | 3974.60                 | -                | 53.17          | 0.00          | 3921.43                         |
| MW - 7      | 04/25/00      | 3974.60                 | -                | 53.23          | 0.00          | 3921.37                         |
| MW - 7      | 09/06/00      | 3974.60                 | -                | 53.28          | 0.00          | 3921.32                         |
| MW - 7      | 11/28/00      | 3974.60                 | -                | 53.28          | 0.00          | 3921.32                         |
| MW - 7      | 02/21/01      | 3974.60                 | -                | 53.18          | 0.00          | 3921.42                         |
| MW - 7      | 05/31/01      | 3974.60                 | -                | 53.15          | 0.00          | 3921.45                         |
| MW - 7      | 08/23/01      | 3974.60                 | -                | 53.14          | 0.00          | 3921.46                         |
| MW - 7      | 11/21/01      | 3974.60                 | -                | 53.19          | 0.00          | 3921.41                         |
| MW - 7      | 02/13/02      | 3974.60                 | -                | 53.22          | 0.00          | 3921.38                         |
| MW - 7      | 06/12/02      | 3974.60                 | -                | 53.18          | 0.00          | 3921.42                         |
| MW - 7      | 08/26/02      | 3974.60                 | -                | 53.19          | 0.00          | 3921.41                         |
| MW - 7      | 11/21/02      | 3974.60                 | -                | 53.23          | 0.00          | 3921.37                         |
| MW - 7      | 02/05/03      | 3974.60                 | -                | 53.20          | 0.00          | 3921.40                         |
| MW - 7      | 05/07/03      | 3974.60                 | -                | 53.18          | 0.00          | 3921.42                         |
| MW - 7      | 08/18/03      | 3974.60                 | -                | 53.21          | 0.00          | 3921.39                         |
| MW - 7      | 12/01/03      | 3974.60                 | -                | 53.24          | 0.00          | 3921.36                         |
| MW - 7      | 02/05/04      | 3974.60                 | -                | 53.27          | 0.00          | 3921.33                         |
| MW - 7      | 05/05/04      | 3974.60                 | -                | 53.22          | 0.00          | 3921.38                         |
| MW - 7      | 09/01/04      | 3974.60                 | -                | 53.30          | 0.00          | 3921.30                         |
| MW - 7      | 12/15/04      | 3974.60                 | -                | 53.25          | 0.00          | 3921.35                         |
| MW - 7      | 03/22/05      | 3974.60                 | -                | 53.03          | 0.00          | 3921.57                         |
| MW - 7      | 06/22/05      | 3974.60                 | -                | 52.95          | 0.00          | 3921.65                         |
| MW - 7      | 09/21/05      | 3974.60                 | -                | 52.87          | 0.00          | 3921.73                         |
| MW - 7      | 12/16/05      | 3974.60                 | -                | 52.80          | 0.00          | 3921.80                         |
| MW - 7      | 03/20/06      | 3974.60                 | -                | 52.73          | 0.00          | 3921.87                         |
| MW - 7      | 06/21/06      | 3974.60                 | -                | 52.69          | 0.00          | 3921.91                         |
| MW - 7      | 09/27/06      | 3974.60                 | -                | 52.67          | 0.00          | 3921.93                         |
| MW - 7      | 12/04/06      | 3974.60                 | -                | 52.68          | 0.00          | 3921.92                         |
| MW - 7      | 03/14/07      | 3974.60                 | -                | 52.64          | 0.00          | 3921.96                         |
| MW - 7      | 05/29/07      | 3974.60                 | -                | 52.61          | 0.00          | 3921.99                         |
| MW - 7      | 08/30/07      | 3974.60                 | -                | 52.58          | 0.00          | 3922.02                         |
| MW - 7      | 11/12/07      | 3974.60                 | -                | 52.54          | 0.00          | 3922.06                         |
| MW - 7      | 03/07/08      | 3974.60                 | -                | 52.49          | 0.00          | 3922.11                         |
| MW - 7      | 06/02/08      | 3974.60                 | -                | 52.43          | 0.00          | 3922.17                         |
| MW - 7      | 09/03/08      | 3974.60                 | -                | 52.44          | 0.00          | 3922.16                         |
| MW - 7      | 12/08/08      | 3974.60                 | -                | 52.41          | 0.00          | 3922.19                         |
| MW - 7      | 02/19/09      | 3974.60                 | -                | 52.41          | 0.00          | 3922.19                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 7         | 05/20/09         | 3974.60                       | -                   | 52.35             | 0.00             | 3922.25                               |
| MW - 7         | 08/12/09         | 3974.60                       | -                   | 52.34             | 0.00             | 3922.26                               |
| MW - 7         | 11/25/09         | 3974.60                       | -                   | 52.34             | 0.00             | 3922.26                               |
| MW - 7         | 01/07/10         | 3974.60                       | -                   | 52.33             | 0.00             | 3922.27                               |
| MW - 7         | 02/11/10         | 3974.60                       | -                   | 52.31             | 0.00             | 3922.29                               |
| MW - 7         | 05/17/10         | 3974.60                       | -                   | 52.39             | 0.00             | 3922.21                               |
| MW - 7         | 08/16/10         | 3974.60                       | -                   | 52.40             | 0.00             | 3922.20                               |
| MW - 7         | 11/10/10         | 3974.60                       | -                   | 52.39             | 0.00             | 3922.21                               |
| MW - 7         | 02/28/11         | 3974.60                       | -                   | 53.42             | 0.00             | 3921.18                               |
| MW - 7         | 05/12/11         | 3974.60                       | -                   | 52.31             | 0.00             | 3922.29                               |
| MW - 7         | 08/15/11         | 3974.60                       | -                   | 52.42             | 0.00             | 3922.18                               |
| MW - 7         | 11/22/11         | 3974.60                       | -                   | 52.37             | 0.00             | 3922.23                               |
| MW - 7         | 02/28/12         | 3974.60                       | -                   | 52.35             | 0.00             | 3922.25                               |
| MW - 7         | 05/17/12         | 3974.60                       | -                   | 52.28             | 0.00             | 3922.32                               |
| MW - 7         | 08/01/12         | 3974.60                       | -                   | 52.39             | 0.00             | 3922.21                               |
| MW - 7         | 10/25/12         | 3974.60                       | -                   | 52.47             | 0.00             | 3922.13                               |
| MW - 7         | 11/29/12         | 3974.60                       | -                   | 52.56             | 0.00             | 3922.04                               |
| MW - 7         | 02/11/13         | 3974.60                       | -                   | 52.44             | 0.00             | 3922.16                               |
| MW - 7         | 04/11/13         | 3974.60                       | -                   | 52.76             | 0.00             | 3921.84                               |
| MW - 7         | 05/06/13         | 3974.60                       | -                   | 52.46             | 0.00             | 3922.14                               |
| MW - 7         | 05/29/13         | 3974.60                       | -                   | 52.71             | 0.00             | 3921.89                               |
| MW - 7         | 06/26/13         | 3974.60                       | -                   | 52.68             | 0.00             | 3921.92                               |
| MW - 7         | 07/31/13         | 3974.60                       | -                   | 52.62             | 0.00             | 3921.98                               |
| MW - 7         | 08/06/13         | 3974.60                       | -                   | 52.62             | 0.00             | 3921.98                               |
| MW - 7         | 09/30/13         | 3974.60                       | -                   | 52.65             | 0.00             | 3921.95                               |
| MW - 7         | 11/19/13         | 3974.60                       | -                   | 52.65             | 0.00             | 3921.95                               |
| MW - 7         | 12/08/13         | 3974.60                       | -                   | 52.60             | 0.00             | 3922.00                               |
| MW - 7         | 02/04/14         | 3974.60                       | -                   | 52.61             | 0.00             | 3921.99                               |
| MW - 7         | 04/28/14         | 3974.60                       | -                   | 52.61             | 0.00             | 3921.99                               |
| MW - 7         | 05/28/14         | 3974.60                       | -                   | 52.74             | 0.00             | 3921.86                               |
| MW - 7         | 07/30/14         | 3974.60                       | -                   | 52.70             | 0.00             | 3921.90                               |
| MW - 7         | 08/23/14         | 3974.60                       | -                   | 52.76             | 0.00             | 3921.84                               |
| MW - 7         | 10/31/14         | 3974.60                       | -                   | 52.75             | 0.00             | 3921.85                               |
| MW - 7         | 11/18/14         | 3974.60                       | -                   | 52.71             | 0.00             | 3921.89                               |
| MW - 7         | 01/09/15         | 3974.60                       | -                   | 52.68             | 0.00             | 3921.92                               |
| MW - 7         | 02/19/15         | 3974.60                       | -                   | 52.71             | 0.00             | 3921.89                               |
| MW - 7         | 03/09/15         | 3974.60                       | -                   | 52.78             | 0.00             | 3921.82                               |
| MW - 7         | 04/09/15         | 3974.60                       | -                   | 52.64             | 0.00             | 3921.96                               |
| MW - 7         | 05/12/15         | 3974.60                       | -                   | 52.64             | 0.00             | 3921.96                               |
| MW - 7         | 07/27/15         | 3974.60                       | -                   | 52.78             | 0.00             | 3921.82                               |
| MW - 7         | 08/18/15         | 3974.60                       | -                   | 52.66             | 0.00             | 3921.94                               |
| MW - 7         | 10/08/15         | 3974.60                       | -                   | 52.88             | 0.00             | 3921.72                               |
| MW - 7         | 11/23/15         | 3974.60                       | -                   | 52.70             | 0.00             | 3921.90                               |
|                |                  |                               |                     |                   |                  |                                       |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 8      | 03/02/00      | 3974.48                 | -                | 52.89          | 0.00          | 3921.59                         |
| MW - 8      | 04/25/00      | 3974.48                 | -                | 52.96          | 0.00          | 3921.52                         |
| MW - 8      | 09/06/00      | 3974.48                 | -                | 53.00          | 0.00          | 3921.48                         |
| MW - 8      | 11/28/00      | 3974.48                 | -                | 53.00          | 0.00          | 3921.48                         |
| MW - 8      | 02/21/01      | 3974.48                 | -                | 52.90          | 0.00          | 3921.58                         |
| MW - 8      | 05/31/01      | 3974.48                 | -                | 52.85          | 0.00          | 3921.63                         |
| MW - 8      | 08/23/01      | 3974.48                 | -                | 52.87          | 0.00          | 3921.61                         |
| MW - 8      | 11/21/01      | 3974.48                 | -                | 52.92          | 0.00          | 3921.56                         |
| MW - 8      | 02/13/02      | 3974.48                 | -                | 52.96          | 0.00          | 3921.52                         |
| MW - 8      | 06/12/02      | 3974.48                 | -                | 52.93          | 0.00          | 3921.55                         |
| MW - 8      | 08/26/02      | 3974.48                 | -                | 52.92          | 0.00          | 3921.56                         |
| MW - 8      | 11/21/02      | 3974.48                 | -                | 52.98          | 0.00          | 3921.50                         |
| MW - 8      | 02/05/03      | 3974.48                 | -                | 52.90          | 0.00          | 3921.58                         |
| MW - 8      | 05/07/03      | 3974.48                 | -                | 52.89          | 0.00          | 3921.59                         |
| MW - 8      | 08/18/03      | 3974.48                 | -                | 52.96          | 0.00          | 3921.52                         |
| MW - 8      | 12/01/03      | 3974.48                 | -                | 53.00          | 0.00          | 3921.48                         |
| MW - 8      | 02/05/04      | 3974.48                 | -                | 52.99          | 0.00          | 3921.49                         |
| MW - 8      | 05/05/04      | 3974.48                 | -                | 52.98          | 0.00          | 3921.50                         |
| MW - 8      | 09/01/04      | 3974.48                 | -                | 53.05          | 0.00          | 3921.43                         |
| MW - 8      | 12/15/04      | 3974.48                 | -                | 53.00          | 0.00          | 3921.48                         |
| MW - 8      | 03/22/05      | 3974.48                 | -                | 52.80          | 0.00          | 3921.68                         |
| MW - 8      | 06/22/05      | 3974.48                 | -                | 52.68          | 0.00          | 3921.80                         |
| MW - 8      | 09/14/05      | PLUGGED & ABANDONED     |                  |                |               |                                 |
|             |               |                         |                  |                |               |                                 |
| MW - 9      | 03/02/00      | 3975.06                 | 53.07            | 54.26          | 1.19          | 3921.81                         |
| MW - 9      | 04/25/00      | 3975.06                 | 53.11            | 54.34          | 1.23          | 3921.77                         |
| MW - 9      | 09/06/00      | 3975.06                 | 53.04            | 55.02          | 1.98          | 3921.72                         |
| MW - 9      | 11/28/00      | 3975.06                 | 53.13            | 54.90          | 1.77          | 3921.66                         |
| MW - 9      | 02/02/01      | 3975.06                 | 53.14            | 54.19          | 1.05          | 3921.76                         |
| MW - 9      | 05/31/01      | 3975.06                 | 53.08            | 54.81          | 1.73          | 3921.72                         |
| MW - 9      | 08/23/01      | 3975.06                 | 52.88            | 55.30          | 2.42          | 3921.82                         |
| MW - 9      | 11/21/01      | 3975.06                 | 53.15            | 54.20          | 1.05          | 3921.75                         |
| MW - 9      | 02/13/02      | 3975.06                 | 52.86            | 55.73          | 2.87          | 3921.77                         |
| MW - 9      | 06/12/02      | 3975.06                 | 52.82            | 55.67          | 2.85          | 3921.81                         |
| MW - 9      | 08/26/02      | 3975.06                 | 52.83            | 55.70          | 2.87          | 3921.80                         |
| MW - 9      | 11/08/02      | 3975.06                 | 52.90            | 55.81          | 2.91          | 3921.72                         |
| MW - 9      | 11/21/02      | 3975.06                 | 52.90            | 55.77          | 2.87          | 3921.73                         |
| MW - 9      | 12/27/02      | 3975.06                 | 53.13            | 54.68          | 1.55          | 3921.70                         |
| MW - 9      | 01/06/03      | 3975.06                 | 53.07            | 54.97          | 1.90          | 3921.71                         |
| MW - 9      | 01/08/03      | 3975.06                 | 53.04            | 55.02          | 1.98          | 3921.72                         |
| MW - 9      | 01/10/03      | 3975.06                 | 53.03            | 55.09          | 2.06          | 3921.72                         |
| MW - 9      | 01/13/03      | 3975.06                 | 53.03            | 55.09          | 2.06          | 3921.72                         |
| MW - 9      | 02/05/03      | 3975.06                 | 52.96            | 55.30          | 2.34          | 3921.75                         |
| MW - 9      | 02/26/03      | 3975.06                 | 52.96            | 55.52          | 2.56          | 3921.72                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 9         | 03/04/03         | 3975.06                       | 52.96               | 55.56             | 2.60             | 3921.71                               |
| MW - 9         | 03/12/03         | 3975.06                       | 52.94               | 55.46             | 2.52             | 3921.74                               |
| MW - 9         | 03/18/03         | 3975.06                       | 53.02               | 57.71             | 4.69             | 3921.34                               |
| MW - 9         | 03/25/03         | 3975.06                       | 53.37               | 53.40             | 0.03             | 3921.69                               |
| MW - 9         | 03/31/03         | 3975.06                       | 53.36               | 53.39             | 0.03             | 3921.70                               |
| MW - 9         | 04/09/03         | 3975.06                       | 53.31               | 53.72             | 0.41             | 3921.69                               |
| MW - 9         | 04/14/03         | 3975.06                       | 53.28               | 53.40             | 0.12             | 3921.76                               |
| MW - 9         | 05/07/03         | 3975.06                       | 53.07               | 54.49             | 1.42             | 3921.78                               |
| MW - 9         | 05/08/03         | 3975.06                       | 53.04               | 54.59             | 1.55             | 3921.79                               |
| MW - 9         | 05/13/03         | 3975.06                       | 53.18               | 54.84             | 1.66             | 3921.63                               |
| MW - 9         | 05/21/03         | 3975.06                       | 53.08               | 54.97             | 1.89             | 3921.70                               |
| MW - 9         | 05/27/03         | 3975.06                       | 53.07               | 55.10             | 2.03             | 3921.69                               |
| MW - 9         | 05/28/03         | 3975.06                       | 53.11               | 55.35             | 2.24             | 3921.61                               |
| MW - 9         | 06/03/03         | 3975.06                       | 53.34               | 54.20             | 0.86             | 3921.59                               |
| MW - 9         | 06/10/03         | 3975.06                       | 53.40               | 53.46             | 0.06             | 3921.65                               |
| MW - 9         | 07/01/03         | 3975.06                       | 53.48               | 53.97             | 0.49             | 3921.51                               |
| MW - 9         | 07/08/03         | 3975.06                       | 53.38               | 53.94             | 0.56             | 3921.60                               |
| MW - 9         | 07/29/03         | 3975.06                       | 53.12               | 54.49             | 1.37             | 3921.73                               |
| MW - 9         | 08/04/03         | 3975.06                       | 53.32               | 54.96             | 1.64             | 3921.49                               |
| MW - 9         | 08/18/03         | 3975.06                       | 53.31               | 54.09             | 0.78             | 3921.63                               |
| MW - 9         | 08/25/03         | 3975.06                       | 53.29               | 55.42             | 2.13             | 3921.45                               |
| MW - 9         | 10/01/03         | 3975.06                       | 53.18               | 53.41             | 0.23             | 3921.85                               |
| MW - 9         | 10/06/03         | 3975.06                       | 53.30               | 53.86             | 0.56             | 3921.68                               |
| MW - 9         | 10/08/03         | 3975.06                       | 53.60               | 54.33             | 0.73             | 3921.35                               |
| MW - 9         | 10/15/03         | 3975.06                       | 53.64               | 54.02             | 0.38             | 3921.36                               |
| MW - 9         | 11/12/03         | 3975.06                       | 53.61               | 54.98             | 1.37             | 3921.24                               |
| MW - 9         | 11/19/03         | 3975.06                       | 53.51               | 55.20             | 1.69             | 3921.30                               |
| MW - 9         | 12/01/03         | 3975.06                       | 53.54               | 55.31             | 1.77             | 3921.25                               |
| MW - 9         | 12/10/03         | 3975.06                       | 53.21               | 54.93             | 1.72             | 3921.59                               |
| MW - 9         | 02/05/04         | 3975.06                       | 53.60               | 55.27             | 1.67             | 3921.21                               |
| MW - 9         | 02/17/04         | 3975.06                       | 53.33               | 54.62             | 1.29             | 3921.54                               |
| MW - 9         | 02/25/04         | 3975.06                       | 53.62               | 55.29             | 1.67             | 3921.19                               |
| MW - 9         | 03/09/04         | 3975.06                       | 53.41               | 55.55             | 2.14             | 3921.33                               |
| MW - 9         | 03/16/04         | 3975.06                       | 53.28               | 55.11             | 1.83             | 3921.51                               |
| MW - 9         | 03/22/04         | 3975.06                       | 53.41               | 53.89             | 0.48             | 3921.58                               |
| MW - 9         | 04/07/04         | 3975.06                       | 53.73               | 53.81             | 0.08             | 3921.32                               |
| MW - 9         | 04/12/04         | 3975.06                       | 53.55               | 53.96             | 0.41             | 3921.45                               |
| MW - 9         | 04/19/04         | 3975.06                       | 53.69               | 53.86             | 0.17             | 3921.34                               |
| MW - 9         | 05/05/04         | 3975.06                       | 53.50               | 54.22             | 0.72             | 3921.45                               |
| MW - 9         | 05/11/04         | 3975.06                       | 53.60               | 54.98             | 1.38             | 3921.25                               |
| MW - 9         | 06/07/04         | 3975.06                       | 53.10               | 54.64             | 1.54             | 3921.73                               |
| MW - 9         | 06/15/04         | 3975.06                       | 53.11               | 54.69             | 1.58             | 3921.71                               |
| MW - 9         | 06/20/04         | 3975.06                       | 53.11               | 54.69             | 1.58             | 3921.71                               |
| MW - 9         | 06/21/04         | 3975.06                       | 53.08               | 54.57             | 1.49             | 3921.76                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 9      | 06/28/04      | 3975.06                 | 53.08            | 54.86          | 1.78          | 3921.71                         |
| MW - 9      | 07/08/04      | 3975.06                 | 53.09            | 54.79          | 1.70          | 3921.72                         |
| MW - 9      | 07/12/04      | 3975.06                 | 53.10            | 54.81          | 1.71          | 3921.70                         |
| MW - 9      | 08/12/04      | 3975.06                 | 53.26            | 54.66          | 1.40          | 3921.59                         |
| MW - 9      | 08/17/04      | 3975.06                 | 53.27            | 54.85          | 1.58          | 3921.55                         |
| MW - 9      | 08/26/04      | 3975.06                 | 53.38            | 54.30          | 0.92          | 3921.54                         |
| MW - 9      | 09/01/04      | 3975.06                 | 53.44            | 54.08          | 0.64          | 3921.52                         |
| MW - 9      | 09/03/04      | 3975.06                 | 53.44            | 53.99          | 0.55          | 3921.54                         |
| MW - 9      | 09/08/04      | 3975.06                 | 53.38            | 54.40          | 1.02          | 3921.53                         |
| MW - 9      | 09/14/04      | 3975.06                 | 53.44            | 54.13          | 0.69          | 3921.52                         |
| MW - 9      | 09/22/04      | 3975.06                 | 53.51            | 54.20          | 0.69          | 3921.45                         |
| MW - 9      | 10/01/04      | 3975.06                 | 53.36            | 54.50          | 1.14          | 3921.53                         |
| MW - 9      | 10/08/04      | 3975.06                 | 53.53            | 54.11          | 0.58          | 3921.44                         |
| MW - 9      | 10/15/04      | 3975.06                 | 53.35            | 54.36          | 1.01          | 3921.56                         |
| MW - 9      | 10/22/04      | 3975.06                 | 53.50            | 54.19          | 0.69          | 3921.46                         |
| MW - 9      | 11/12/04      | 3975.06                 | 53.62            | 54.40          | 0.78          | 3921.32                         |
| MW - 9      | 11/26/04      | 3975.06                 | 53.45            | 54.50          | 1.05          | 3921.45                         |
| MW - 9      | 12/02/04      | 3975.06                 | 53.43            | 54.39          | 0.96          | 3921.49                         |
| MW - 9      | 12/06/04      | 3975.06                 | 53.42            | 54.10          | 0.68          | 3921.54                         |
| MW - 9      | 12/13/04      | 3975.06                 | 53.43            | 54.00          | 0.57          | 3921.54                         |
| MW - 9      | 12/15/04      | 3975.06                 | 53.43            | 54.00          | 0.57          | 3921.54                         |
| MW - 9      | 12/27/04      | 3975.06                 | 53.40            | 54.30          | 0.90          | 3921.53                         |
| MW - 9      | 01/10/05      | 3975.06                 | 53.34            | 53.81          | 0.47          | 3921.65                         |
| MW - 9      | 01/18/05      | 3975.06                 | 53.30            | 53.90          | 0.60          | 3921.67                         |
| MW - 9      | 01/25/05      | 3975.06                 | 53.25            | 54.05          | 0.80          | 3921.69                         |
| MW - 9      | 01/27/05      | 3975.06                 | 53.33            | 53.51          | 0.18          | 3921.70                         |
| MW - 9      | 02/01/05      | 3975.06                 | 53.22            | 53.66          | 0.44          | 3921.77                         |
| MW - 9      | 02/07/05      | 3975.06                 | 53.19            | 53.60          | 0.41          | 3921.81                         |
| MW - 9      | 02/11/05      | 3975.06                 | 53.20            | 53.59          | 0.39          | 3921.80                         |
| MW - 9      | 02/15/05      | 3975.06                 | 53.05            | 53.55          | 0.50          | 3921.94                         |
| MW - 9      | 02/22/05      | 3975.06                 | 53.20            | 53.59          | 0.39          | 3921.80                         |
| MW - 9      | 02/24/05      | 3975.06                 | 53.05            | 53.70          | 0.65          | 3921.91                         |
| MW - 9      | 03/03/05      | 3975.06                 | 53.13            | 53.78          | 0.65          | 3921.83                         |
| MW - 9      | 03/09/05      | 3975.06                 | 53.13            | 53.78          | 0.65          | 3921.83                         |
| MW - 9      | 03/22/05      | 3975.06                 | 52.90            | 53.85          | 0.95          | 3922.02                         |
| MW - 9      | 03/24/05      | 3975.06                 | 52.90            | 53.85          | 0.95          | 3922.02                         |
| MW - 9      | 03/31/05      | 3975.06                 | 52.92            | 53.76          | 0.84          | 3922.01                         |
| MW - 9      | 06/22/05      | 3975.06                 | 53.82            | 54.18          | 0.36          | 3921.19                         |
| MW - 9      | 07/21/05      | 3975.06                 | 52.94            | 53.55          | 0.61          | 3922.03                         |
| MW - 9      | 08/03/05      | 3975.06                 | 52.87            | 53.86          | 0.99          | 3922.04                         |
| MW - 9      | 08/12/05      | 3975.06                 | 52.92            | 53.63          | 0.71          | 3922.03                         |
| MW - 9      | 08/15/05      | 3975.06                 | 52.92            | 53.48          | 0.56          | 3922.06                         |
| MW - 9      | 08/22/05      | 3975.06                 | 52.87            | 53.64          | 0.77          | 3922.07                         |
| MW - 9      | 08/30/05      | 3975.06                 | 52.80            | 53.97          | 1.17          | 3922.08                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 9      | 09/07/05      | 3975.06                 | 52.83            | 53.74          | 0.91          | 3922.09                         |
| MW - 9      | 09/14/05      | 3975.06                 | 52.85            | 53.40          | 0.55          | 3922.13                         |
| MW - 9      | 09/20/05      | 3975.06                 | 52.80            | 53.90          | 1.10          | 3922.10                         |
| MW - 9      | 09/21/05      | 3975.06                 | 52.86            | 53.62          | 0.76          | 3922.09                         |
| MW - 9      | 09/28/05      | 3975.06                 | 52.78            | 54.02          | 1.24          | 3922.09                         |
| MW - 9      | 10/06/05      | 3975.06                 | 52.83            | 53.70          | 0.87          | 3922.10                         |
| MW - 9      | 10/13/05      | 3975.06                 | 52.86            | 53.64          | 0.78          | 3922.08                         |
| MW - 9      | 10/20/05      | 3975.06                 | 52.81            | 53.50          | 0.69          | 3922.15                         |
| MW - 9      | 10/26/05      | 3975.06                 | 52.87            | 53.60          | 0.73          | 3922.08                         |
| MW - 9      | 11/03/05      | 3975.06                 | 52.77            | 53.88          | 1.11          | 3922.12                         |
| MW - 9      | 11/10/05      | 3975.06                 | 52.76            | 53.83          | 1.07          | 3922.14                         |
| MW - 9      | 11/16/05      | 3975.06                 | 52.84            | 53.59          | 0.75          | 3922.11                         |
| MW - 9      | 11/23/05      | 3975.06                 | 52.90            | 53.51          | 0.61          | 3922.07                         |
| MW - 9      | 11/28/05      | 3975.06                 | 52.75            | 53.80          | 1.05          | 3922.15                         |
| MW - 9      | 12/05/05      | 3975.06                 | 52.85            | 53.48          | 0.63          | 3922.12                         |
| MW - 9      | 12/12/05      | 3975.06                 | 52.84            | 53.50          | 0.66          | 3922.12                         |
| MW - 9      | 12/16/05      | 3975.06                 | 53.00            | 53.41          | 0.41          | 3922.00                         |
| MW - 9      | 12/19/05      | 3975.06                 | 52.89            | 53.51          | 0.62          | 3922.08                         |
| MW - 9      | 12/29/05      | 3975.06                 | 52.73            | 53.55          | 0.82          | 3922.21                         |
| MW - 9      | 01/04/06      | 3975.06                 | 52.76            | 53.51          | 0.75          | 3922.19                         |
| MW - 9      | 01/10/06      | 3975.06                 | 52.68            | 53.51          | 0.83          | 3922.26                         |
| MW - 9      | 01/17/06      | 3975.06                 | 52.77            | 53.85          | 1.08          | 3922.13                         |
| MW - 9      | 01/26/06      | 3975.06                 | 52.75            | 53.80          | 1.05          | 3922.15                         |
| MW - 9      | 01/31/06      | 3975.06                 | 52.79            | 53.75          | 0.96          | 3922.13                         |
| MW - 9      | 02/07/06      | 3975.06                 | 52.79            | 53.70          | 0.91          | 3922.13                         |
| MW - 9      | 02/09/06      | 3975.06                 | 52.90            | 53.10          | 0.20          | 3922.13                         |
| MW - 9      | 02/13/06      | 3975.06                 | 52.76            | 53.58          | 0.82          | 3922.18                         |
| MW - 9      | 02/22/06      | 3975.06                 | 52.79            | 53.60          | 0.81          | 3922.15                         |
| MW - 9      | 02/28/06      | 3975.06                 | 52.77            | 53.60          | 0.83          | 3922.17                         |
| MW - 9      | 03/07/06      | 3975.06                 | 52.76            | 53.58          | 0.82          | 3922.18                         |
| MW - 9      | 03/15/06      | 3975.06                 | 52.75            | 53.60          | 0.85          | 3922.18                         |
| MW - 9      | 03/20/06      | 3975.06                 | 52.75            | 53.52          | 0.77          | 3922.19                         |
| MW - 9      | 03/22/06      | 3975.06                 | 52.96            | 52.98          | 0.02          | 3922.10                         |
| MW - 9      | 03/29/06      | 3975.06                 | 52.80            | 53.21          | 0.41          | 3922.20                         |
| MW - 9      | 04/11/06      | 3975.06                 | 52.74            | 53.42          | 0.68          | 3922.22                         |
| MW - 9      | 04/18/06      | 3975.06                 | 52.75            | 53.41          | 0.66          | 3922.21                         |
| MW - 9      | 04/25/06      | 3975.06                 | 52.83            | 53.07          | 0.24          | 3922.19                         |
| MW - 9      | 05/02/06      | 3975.06                 | 52.74            | 53.34          | 0.60          | 3922.23                         |
| MW - 9      | 05/09/06      | 3975.06                 | 52.73            | 53.34          | 0.61          | 3922.24                         |
| MW - 9      | 05/16/06      | 3975.06                 | 52.74            | 53.43          | 0.69          | 3922.22                         |
| MW - 9      | 05/23/06      | 3975.06                 | 52.71            | 53.48          | 0.77          | 3922.23                         |
| MW - 9      | 05/31/06      | 3975.06                 | 52.71            | 53.54          | 0.83          | 3922.23                         |
| MW - 9      | 06/06/06      | 3975.06                 | 52.73            | 53.88          | 1.15          | 3922.16                         |
| MW - 9      | 06/13/06      | 3975.06                 | 52.72            | 53.38          | 0.66          | 3922.24                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 9      | 06/20/06      | 3975.06                 | 52.72            | 53.38          | 0.66          | 3922.24                         |
| MW - 9      | 06/21/06      | 3975.06                 | 52.79            | 53.07          | 0.28          | 3922.23                         |
| MW - 9      | 07/06/06      | 3975.06                 | 52.69            | 53.52          | 0.83          | 3922.25                         |
| MW - 9      | 07/12/06      | 3975.06                 | 52.66            | 53.66          | 1.00          | 3922.25                         |
| MW - 9      | 07/20/06      | 3975.06                 | 52.63            | 53.61          | 0.98          | 3922.28                         |
| MW - 9      | 07/25/06      | 3975.06                 | 52.75            | 53.70          | 0.95          | 3922.17                         |
| MW - 9      | 08/01/06      | 3975.06                 | 52.70            | 53.49          | 0.79          | 3922.24                         |
| MW - 9      | 08/16/06      | 3975.06                 | 52.68            | 53.69          | 1.01          | 3922.23                         |
| MW - 9      | 08/23/06      | 3975.06                 | 52.70            | 53.47          | 0.77          | 3922.24                         |
| MW - 9      | 08/28/06      | 3975.06                 | 52.72            | 53.36          | 0.64          | 3922.24                         |
| MW - 9      | 09/12/06      | 3975.06                 | 52.67            | 53.65          | 0.98          | 3922.24                         |
| MW - 9      | 09/22/06      | 3975.06                 | 52.65            | 53.60          | 0.95          | 3922.27                         |
| MW - 9      | 09/27/06      | 3975.06                 | 52.70            | 53.38          | 0.68          | 3922.26                         |
| MW - 9      | 10/06/06      | 3975.06                 | 52.64            | 53.64          | 1.00          | 3922.27                         |
| MW - 9      | 10/10/06      | 3975.06                 | 52.71            | 53.30          | 0.59          | 3922.26                         |
| MW - 9      | 10/16/06      | 3975.06                 | 52.74            | 53.39          | 0.65          | 3922.22                         |
| MW - 9      | 10/26/06      | 3975.06                 | 52.68            | 53.49          | 0.81          | 3922.26                         |
| MW - 9      | 11/03/06      | 3975.06                 | 52.69            | 53.39          | 0.70          | 3922.27                         |
| MW - 9      | 11/09/06      | 3975.06                 | 52.70            | 53.35          | 0.65          | 3922.26                         |
| MW - 9      | 11/16/06      | 3975.06                 | 52.70            | 53.35          | 0.65          | 3922.26                         |
| MW - 9      | 11/22/06      | 3975.06                 | 52.71            | 53.29          | 0.58          | 3922.26                         |
| MW - 9      | 12/04/06      | 3975.06                 | 52.66            | 53.45          | 0.79          | 3922.28                         |
| MW - 9      | 12/08/06      | 3975.06                 | 52.65            | 53.55          | 0.90          | 3922.28                         |
| MW - 9      | 12/15/06      | 3975.06                 | 52.67            | 53.32          | 0.65          | 3922.29                         |
| MW - 9      | 01/05/07      | 3975.06                 | 52.61            | 53.62          | 1.01          | 3922.30                         |
| MW - 9      | 01/12/07      | 3975.06                 | 52.66            | 53.37          | 0.71          | 3922.29                         |
| MW - 9      | 01/18/07      | 3975.06                 | 52.68            | 53.30          | 0.62          | 3922.29                         |
| MW - 9      | 01/24/07      | 3975.06                 | 52.69            | 53.28          | 0.59          | 3922.28                         |
| MW - 9      | 01/29/07      | 3975.06                 | 52.67            | 53.20          | 0.53          | 3922.31                         |
| MW - 9      | 02/09/07      | 3975.06                 | 52.63            | 53.36          | 0.73          | 3922.32                         |
| MW - 9      | 02/16/07      | 3975.06                 | 52.65            | 53.34          | 0.69          | 3922.31                         |
| MW - 9      | 02/23/07      | 3975.06                 | 52.63            | 53.29          | 0.66          | 3922.33                         |
| MW - 9      | 03/02/07      | 3975.06                 | 52.62            | 53.45          | 0.83          | 3922.32                         |
| MW - 9      | 03/14/07      | 3975.06                 | 52.66            | 53.09          | 0.43          | 3922.34                         |
| MW - 9      | 03/26/07      | 3975.06                 | 52.63            | 53.26          | 0.63          | 3922.34                         |
| MW - 9      | 04/03/07      | 3975.06                 | 52.60            | 53.38          | 0.78          | 3922.34                         |
| MW - 9      | 04/09/07      | 3975.06                 | 52.61            | 53.27          | 0.66          | 3922.35                         |
| MW - 9      | 04/26/07      | 3975.06                 | 52.58            | 53.44          | 0.86          | 3922.35                         |
| MW - 9      | 04/30/07      | 3975.06                 | 52.22            | 53.26          | 1.04          | 3922.68                         |
| MW - 9      | 05/11/07      | 3975.06                 | 52.59            | 53.65          | 1.06          | 3922.31                         |
| MW - 9      | 05/16/07      | 3975.06                 | 52.64            | 53.11          | 0.47          | 3922.35                         |
| MW - 9      | 05/22/07      | 3975.06                 | 52.64            | 53.14          | 0.50          | 3922.35                         |
| MW - 9      | 05/29/07      | 3975.06                 | 52.61            | 53.16          | 0.55          | 3922.37                         |
| MW - 9      | 06/01/07      | 3975.06                 | 52.59            | 53.23          | 0.64          | 3922.37                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 9      | 06/08/07      | 3975.06                 | 52.61            | 53.20          | 0.59          | 3922.36                         |
| MW - 9      | 06/11/07      | 3975.06                 | 52.65            | 53.01          | 0.36          | 3922.36                         |
| MW - 9      | 06/20/07      | 3975.06                 | 52.60            | 53.23          | 0.63          | 3922.37                         |
| MW - 9      | 07/10/07      | 3975.06                 | 52.56            | 53.35          | 0.79          | 3922.38                         |
| MW - 9      | 07/20/07      | 3975.06                 | 52.56            | 53.33          | 0.77          | 3922.38                         |
| MW - 9      | 07/25/07      | 3975.06                 | 52.69            | 53.16          | 0.47          | 3922.30                         |
| MW - 9      | 08/01/07      | 3975.06                 | 52.58            | 53.14          | 0.56          | 3922.40                         |
| MW - 9      | 08/10/07      | 3975.06                 | 52.29            | 53.16          | 0.87          | 3922.64                         |
| MW - 9      | 08/15/07      | 3975.06                 | 52.60            | 53.05          | 0.45          | 3922.39                         |
| MW - 9      | 08/30/07      | 3975.06                 | 52.56            | 53.26          | 0.70          | 3922.40                         |
| MW - 9      | 08/31/07      | 3975.06                 | 52.56            | 53.26          | 0.70          | 3922.40                         |
| MW - 9      | 09/10/07      | 3975.06                 | 52.53            | 53.34          | 0.81          | 3922.41                         |
| MW - 9      | 09/19/07      | 3975.06                 | 52.53            | 53.30          | 0.77          | 3922.41                         |
| MW - 9      | 09/27/07      | 3975.06                 | 52.55            | 53.15          | 0.60          | 3922.42                         |
| MW - 9      | 10/01/07      | 3975.06                 | 52.58            | 52.99          | 0.41          | 3922.42                         |
| MW - 9      | 10/19/07      | 3975.06                 | 52.50            | 53.35          | 0.85          | 3922.43                         |
| MW - 9      | 10/26/07      | 3975.06                 | 52.53            | 53.15          | 0.62          | 3922.44                         |
| MW - 9      | 11/12/07      | 3975.06                 | 52.73            | 53.16          | 0.43          | 3922.27                         |
| MW - 9      | 11/16/07      | 3975.06                 | 52.62            | 52.83          | 0.21          | 3922.41                         |
| MW - 9      | 11/29/07      | 3975.06                 | 52.66            | 53.01          | 0.35          | 3922.35                         |
| MW - 9      | 12/13/07      | 3975.06                 | 52.51            | 53.20          | 0.69          | 3922.45                         |
| MW - 9      | 01/10/08      | 3975.06                 | 52.49            | 53.18          | 0.69          | 3922.47                         |
| MW - 9      | 01/17/08      | 3975.06                 | 52.50            | 53.13          | 0.63          | 3922.47                         |
| MW - 9      | 01/22/08      | 3975.06                 | 52.49            | 53.12          | 0.63          | 3922.48                         |
| MW - 9      | 2/6/2008 #1   | 3975.06                 | 52.53            | 52.97          | 0.44          | 3922.46                         |
| MW - 9      | 02/06/08 #2   | 3975.06                 | 52.50            | 52.66          | 0.16          | 3922.54                         |
| MW - 9      | 2/12/08 #1    | 3975.06                 | 52.54            | 52.90          | 0.36          | 3922.47                         |
| MW - 9      | 2/12/08 #2    | 3975.06                 | 52.60            | 52.63          | 0.03          | 3922.46                         |
| MW - 9      | 2/20/08 #1    | 3975.06                 | 52.52            | 52.93          | 0.41          | 3922.48                         |
| MW - 9      | 2/20/08 #2    | 3975.06                 | 52.58            | 52.68          | 0.10          | 3922.47                         |
| MW - 9      | 2/27/08 #1    | 3975.06                 | 52.52            | 52.91          | 0.39          | 3922.48                         |
| MW - 9      | 2/27/08 #2    | 3975.06                 | 52.57            | 52.66          | 0.09          | 3922.48                         |
| MW - 9      | 03/07/08      | 3975.06                 | 52.52            | 53.00          | 0.48          | 3922.47                         |
| MW - 9      | 3/12/08 #1    | 3975.06                 | 52.52            | 53.00          | 0.48          | 3922.47                         |
| MW - 9      | 3/12/08 #2    | 3975.06                 | 52.56            | 52.66          | 0.10          | 3922.49                         |
| MW - 9      | 3/20/08 #1    | 3975.06                 | 52.50            | 52.92          | 0.42          | 3922.50                         |
| MW - 9      | 3/20/08#2     | 3975.06                 | 52.54            | 52.70          | 0.16          | 3922.50                         |
| MW - 9      | 3/23/08 #1    | 3975.06                 | 52.49            | 52.89          | 0.40          | 3922.51                         |
| MW - 9      | 3/23/08 #2    | 3975.06                 | 52.55            | 52.63          | 0.08          | 3922.50                         |
| MW - 9      | 4/2/08 #1     | 3975.06                 | 52.51            | 52.86          | 0.35          | 3922.50                         |
| MW - 9      | 4/2/08 #2     | 3975.06                 | 52.54            | 52.68          | 0.14          | 3922.50                         |
| MW - 9      | 4/9/08 #1     | 3975.06                 | 52.48            | 52.87          | 0.39          | 3922.52                         |
| MW - 9      | 4/9/08 #2     | 3975.06                 | 52.53            | 52.72          | 0.19          | 3922.50                         |
| MW - 9      | 04/16/08      | 3975.06                 | 52.48            | 52.89          | 0.41          | 3922.52                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 9      | 04/23/08      | 3975.06                 | 52.49            | 52.86          | 0.37          | 3922.51                         |
| MW - 9      | 04/30/08      | 3975.06                 | 52.47            | 52.90          | 0.43          | 3922.53                         |
| MW - 9      | 05/29/08      | 3975.06                 | 52.48            | 52.85          | 0.37          | 3922.52                         |
| MW - 9      | 06/02/08      | 3975.06                 | 52.48            | 52.77          | 0.29          | 3922.54                         |
| MW - 9      | 06/03/08      | 3975.06                 | 52.48            | 52.77          | 0.29          | 3922.54                         |
| MW - 9      | 06/11/08      | 3975.06                 | 52.47            | 52.87          | 0.40          | 3922.53                         |
| MW - 9      | 06/18/08      | 3975.06                 | 52.47            | 52.89          | 0.42          | 3922.53                         |
| MW - 9      | 06/23/08      | 3975.06                 | 52.49            | 52.78          | 0.29          | 3922.53                         |
| MW - 9      | 07/01/08      | 3975.06                 | 52.48            | 52.86          | 0.38          | 3922.52                         |
| MW - 9      | 07/09/08      | 3975.06                 | 52.59            | 52.86          | 0.27          | 3922.43                         |
| MW - 9      | 07/15/08      | 3975.06                 | 52.48            | 52.80          | 0.32          | 3922.53                         |
| MW - 9      | 07/22/08      | 3975.06                 | 52.47            | 52.85          | 0.38          | 3922.53                         |
| MW - 9      | 08/02/08      | 3975.06                 | 52.46            | 52.90          | 0.44          | 3922.53                         |
| MW - 9      | 08/13/08      | 3975.06                 | 52.45            | 52.88          | 0.43          | 3922.55                         |
| MW - 9      | 09/03/08      | 3975.06                 | 52.42            | 52.98          | 0.56          | 3922.56                         |
| MW - 9      | 09/11/08      | 3975.06                 | 52.46            | 52.85          | 0.39          | 3922.54                         |
| MW - 9      | 09/19/08      | 3975.06                 | 52.44            | 52.82          | 0.38          | 3922.56                         |
| MW - 9      | 09/26/08      | 3975.06                 | 52.46            | 52.81          | 0.35          | 3922.55                         |
| MW - 9      | 10/10/08      | 3975.06                 | 52.44            | 52.81          | 0.37          | 3922.56                         |
| MW - 9      | 10/17/08      | 3975.06                 | 52.47            | 52.78          | 0.31          | 3922.54                         |
| MW - 9      | 10/21/08      | 3975.06                 | 52.46            | 52.70          | 0.24          | 3922.56                         |
| MW - 9      | 10/30/08      | 3975.06                 | 52.45            | 52.78          | 0.33          | 3922.56                         |
| MW - 9      | 11/04/08      | 3975.06                 | 52.46            | 52.75          | 0.29          | 3922.56                         |
| MW - 9      | 11/18/08      | 3975.06                 | 52.46            | 52.84          | 0.38          | 3922.54                         |
| MW - 9      | 11/25/08      | 3975.06                 | 52.46            | 52.76          | 0.30          | 3922.56                         |
| MW - 9      | 12/10/08      | 3975.06                 | 52.42            | 52.84          | 0.42          | 3922.58                         |
| MW - 9      | 12/18/08      | 3975.06                 | 52.43            | 52.80          | 0.37          | 3922.57                         |
| MW - 9      | 01/06/09      | 3975.06                 | 52.43            | 52.89          | 0.46          | 3922.56                         |
| MW - 9      | 01/14/09      | 3975.06                 | 52.45            | 52.89          | 0.44          | 3922.54                         |
| MW - 9      | 01/21/09      | 3975.06                 | 47.11            | 47.60          | 0.49          | 3927.88                         |
| MW - 9      | 01/22/09      | 3975.06                 | 52.42            | 52.75          | 0.33          | 3922.59                         |
| MW - 9      | 01/30/09      | 3975.06                 | 52.43            | 52.76          | 0.33          | 3922.58                         |
| MW - 9      | 02/03/09      | 3975.06                 | 52.44            | 52.69          | 0.25          | 3922.58                         |
| MW - 9      | 02/12/09      | 3975.06                 | 52.43            | 52.79          | 0.36          | 3922.58                         |
| MW - 9      | 02/19/09      | 3975.06                 | 52.44            | 52.82          | 0.38          | 3922.56                         |
| MW - 9      | 03/04/09      | 3975.06                 | 52.49            | 52.89          | 0.40          | 3922.51                         |
| MW - 9      | 03/06/09      | 3975.06                 | 52.40            | 52.84          | 0.44          | 3922.59                         |
| MW - 9      | 03/11/09      | 3975.06                 | 52.44            | 52.78          | 0.34          | 3922.57                         |
| MW - 9      | 03/16/09      | 3975.06                 | 52.53            | 52.92          | 0.39          | 3922.47                         |
| MW - 9      | 03/19/09      | 3975.06                 | 52.43            | 52.74          | 0.31          | 3922.58                         |
| MW - 9      | 03/24/09      | 3975.06                 | 52.39            | 52.74          | 0.35          | 3922.62                         |
| MW - 9      | 04/03/09      | 3975.06                 | 52.73            | 52.82          | 0.09          | 3922.32                         |
| MW - 9      | 04/15/09      | 3975.06                 | 52.40            | 52.75          | 0.35          | 3922.61                         |
| MW - 9      | 04/17/09      | 3975.06                 | 52.43            | 52.61          | 0.18          | 3922.60                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 9      | 04/22/09      | 3975.06                 | 52.38            | 52.81          | 0.43          | 3922.62                         |
| MW - 9      | 04/29/09      | 3975.06                 | 52.39            | 52.74          | 0.35          | 3922.62                         |
| MW - 9      | 05/20/09      | 3975.06                 | 52.39            | 52.76          | 0.37          | 3922.61                         |
| MW - 9      | 05/20/09      | 3975.06                 | 52.39            | 52.76          | 0.37          | 3922.61                         |
| MW - 9      | 06/09/09      | 3975.06                 | 52.38            | 52.78          | 0.40          | 3922.62                         |
| MW - 9      | 06/17/09      | 3975.06                 | 52.40            | 52.22          | -0.18         | 3922.69                         |
| MW - 9      | 06/23/09      | 3975.06                 | 52.36            | 52.83          | 0.47          | 3922.63                         |
| MW - 9      | 07/01/09      | 3975.06                 | 52.39            | 52.25          | -0.14         | 3922.69                         |
| MW - 9      | 07/08/09      | 3975.06                 | 52.40            | 52.68          | 0.28          | 3922.62                         |
| MW - 9      | 07/15/09      | 3975.06                 | 52.38            | 52.66          | 0.28          | 3922.64                         |
| MW - 9      | 07/17/09      | 3975.06                 | 52.41            | 52.63          | 0.22          | 3922.62                         |
| MW - 9      | 07/23/09      | 3975.06                 | 52.41            | 52.66          | 0.25          | 3922.61                         |
| MW - 9      | 07/24/09      | 3975.06                 | 52.46            | 52.56          | 0.10          | 3922.59                         |
| MW - 9      | 07/30/09      | 3975.06                 | 52.41            | 52.65          | 0.24          | 3922.61                         |
| MW - 9      | 08/04/09      | 3975.06                 | 52.04            | 52.62          | 0.58          | 3922.93                         |
| MW - 9      | 08/12/09      | 3975.06                 | 52.40            | 52.69          | 0.29          | 3922.62                         |
| MW - 9      | 08/20/09      | 3975.06                 | 52.38            | 52.74          | 0.36          | 3922.63                         |
| MW - 9      | 08/26/09      | 3975.06                 | 52.31            | 52.83          | 0.52          | 3922.67                         |
| MW - 9      | 09/02/09      | 3975.06                 | 52.40            | 52.69          | 0.29          | 3922.62                         |
| MW - 9      | 09/09/09      | 3975.06                 | 52.39            | 52.72          | 0.33          | 3922.62                         |
| MW - 9      | 09/14/09      | 3975.06                 | 52.40            | 52.65          | 0.25          | 3922.62                         |
| MW - 9      | 09/21/09      | 3975.06                 | 52.39            | 52.69          | 0.30          | 3922.63                         |
| MW - 9      | 10/01/09      | 3975.06                 | 52.41            | 52.72          | 0.31          | 3922.60                         |
| MW - 9      | 10/08/09      | 3975.06                 | 52.43            | 52.76          | 0.33          | 3922.58                         |
| MW - 9      | 10/14/09      | 3975.06                 | 52.39            | 52.68          | 0.29          | 3922.63                         |
| MW - 9      | 10/21/09      | 3975.06                 | 52.37            | 52.73          | 0.36          | 3922.64                         |
| MW - 9      | 10/28/09      | 3975.06                 | 52.38            | 52.67          | 0.29          | 3922.64                         |
| MW - 9      | 11/04/09      | 3975.06                 | 52.39            | 52.64          | 0.25          | 3922.63                         |
| MW - 9      | 11/11/09      | 3975.06                 | 52.38            | 52.63          | 0.25          | 3922.64                         |
| MW - 9      | 11/18/09      | 3975.06                 | 52.38            | 52.65          | 0.27          | 3922.64                         |
| MW - 9      | 11/25/09      | 3975.06                 | 52.39            | 52.64          | 0.25          | 3922.63                         |
| MW - 9      | 12/02/09      | 3975.06                 | 52.39            | 52.68          | 0.29          | 3922.63                         |
| MW - 9      | 12/10/09      | 3975.06                 | 52.39            | 52.65          | 0.26          | 3922.63                         |
| MW - 9      | 12/17/09      | 3975.06                 | 52.45            | 52.63          | 0.18          | 3922.58                         |
| MW - 9      | 12/21/09      | 3975.06                 | 52.41            | 52.65          | 0.24          | 3922.61                         |
| MW - 9      | 12/30/09      | 3975.06                 | 52.45            | 52.73          | 0.28          | 3922.57                         |
| MW - 9      | 01/07/10      | 3975.06                 | 52.39            | 52.61          | 0.22          | 3922.64                         |
| MW - 9      | 01/18/10      | 3975.06                 | 52.36            | 52.69          | 0.33          | 3922.65                         |
| MW - 9      | 02/02/10      | 3975.06                 | 52.36            | 52.70          | 0.34          | 3922.65                         |
| MW - 9      | 02/11/10      | 3975.06                 | 52.35            | 52.62          | 0.27          | 3922.67                         |
| MW - 9      | 02/18/10      | 3975.06                 | 52.34            | 52.66          | 0.32          | 3922.67                         |
| MW - 9      | 02/25/10      | 3975.06                 | 52.44            | 52.70          | 0.26          | 3922.58                         |
| MW - 9      | 03/02/10      | 3975.06                 | 52.45            | 52.68          | 0.23          | 3922.58                         |
| MW - 9      | 03/04/10      | 3975.06                 | 52.34            | 52.58          | 0.24          | 3922.68                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 9      | 03/10/10      | 3975.06                 | 52.36            | 52.60          | 0.24          | 3922.66                         |
| MW - 9      | 03/12/10      | 3975.06                 | 52.48            | 52.64          | 0.16          | 3922.56                         |
| MW - 9      | 03/15/10      | 3975.06                 | 52.38            | 52.58          | 0.20          | 3922.65                         |
| MW - 9      | 03/18/10      | 3975.06                 | 52.37            | 52.56          | 0.19          | 3922.66                         |
| MW - 9      | 03/22/10      | 3975.06                 | 52.43            | 52.64          | 0.21          | 3922.60                         |
| MW - 9      | 03/24/10      | 3975.06                 | 52.47            | 52.60          | 0.13          | 3922.57                         |
| MW - 9      | 03/30/10      | 3975.06                 | 52.44            | 52.64          | 0.20          | 3922.59                         |
| MW - 9      | 04/07/10      | 3975.06                 | 52.45            | 52.71          | 0.26          | 3922.57                         |
| MW - 9      | 04/12/10      | 3975.06                 | 52.34            | 52.52          | 0.18          | 3922.69                         |
| MW - 9      | 04/16/10      | 3975.06                 | 52.51            | 52.69          | 0.18          | 3922.52                         |
| MW - 9      | 04/20/10      | 3975.06                 | 52.41            | 52.53          | 0.12          | 3922.63                         |
| MW - 9      | 04/27/10      | 3975.06                 | 52.41            | 52.50          | 0.09          | 3922.64                         |
| MW - 9      | 04/30/10      | 3975.06                 | 52.39            | 52.49          | 0.10          | 3922.66                         |
| MW - 9      | 05/12/10      | 3975.06                 | 52.27            | 52.33          | 0.06          | 3922.78                         |
| MW - 9      | 05/14/10      | 3975.06                 | 52.41            | 52.51          | 0.10          | 3922.64                         |
| MW - 9      | 05/17/10      | 3975.06                 | 52.38            | 52.42          | 0.04          | 3922.67                         |
| MW - 9      | 05/20/10      | 3975.06                 | 52.29            | 52.32          | 0.03          | 3922.77                         |
| MW - 9      | 05/25/10      | 3975.06                 | 52.27            | 52.34          | 0.07          | 3922.78                         |
| MW - 9      | 06/01/10      | 3975.06                 | 52.28            | 52.33          | 0.05          | 3922.77                         |
| MW - 9      | 06/09/10      | 3975.06                 | 52.30            | 52.34          | 0.04          | 3922.75                         |
| MW - 9      | 06/16/10      | 3975.06                 | 52.40            | 52.50          | 0.10          | 3922.65                         |
| MW - 9      | 06/28/10      | 3975.06                 | 52.39            | 52.49          | 0.10          | 3922.66                         |
| MW - 9      | 07/09/10      | 3975.06                 | 52.42            | 52.50          | 0.08          | 3922.63                         |
| MW - 9      | 07/14/10      | 3975.06                 | 52.34            | 52.50          | 0.16          | 3922.70                         |
| MW - 9      | 07/23/10      | 3975.06                 | 52.35            | 52.51          | 0.16          | 3922.69                         |
| MW - 9      | 07/29/10      | 3975.06                 | 52.35            | 52.52          | 0.17          | 3922.68                         |
| MW - 9      | 08/05/10      | 3975.06                 | 52.35            | 52.60          | 0.25          | 3922.67                         |
| MW - 9      | 08/12/10      | 3975.06                 | 52.35            | 52.54          | 0.19          | 3922.68                         |
| MW - 9      | 08/16/10      | 3975.06                 | 52.35            | 52.54          | 0.19          | 3922.68                         |
| MW - 9      | 08/18/10      | 3975.06                 | 52.35            | 52.54          | 0.19          | 3922.68                         |
| MW - 9      | 08/25/10      | 3975.06                 | 52.41            | 52.63          | 0.22          | 3922.62                         |
| MW - 9      | 09/02/10      | 3975.06                 | 52.35            | 52.51          | 0.16          | 3922.69                         |
| MW - 9      | 09/08/10      | 3975.06                 | 52.37            | 52.52          | 0.15          | 3922.67                         |
| MW - 9      | 09/30/10      | 3975.06                 | 52.35            | 52.53          | 0.18          | 3922.68                         |
| MW - 9      | 10/07/10      | 3975.06                 | 52.36            | 52.52          | 0.16          | 3922.68                         |
| MW - 9      | 10/14/10      | 3975.06                 | 52.37            | 52.54          | 0.17          | 3922.66                         |
| MW - 9      | 10/21/10      | 3975.06                 | 52.39            | 52.52          | 0.13          | 3922.65                         |
| MW - 9      | 11/04/10      | 3975.06                 | 52.35            | 52.53          | 0.18          | 3922.68                         |
| MW - 9      | 11/10/10      | 3975.06                 | 52.41            | 52.49          | 0.08          | 3922.64                         |
| MW - 9      | 12/01/10      | 3975.06                 | 52.31            | 52.56          | 0.25          | 3922.71                         |
| MW - 9      | 12/08/10      | 3975.06                 | 52.39            | 52.54          | 0.15          | 3922.65                         |
| MW - 9      | 01/26/11      | 3975.06                 | 52.31            | 52.64          | 0.33          | 3922.70                         |
| MW - 9      | 02/28/11      | 3975.06                 | 52.40            | 52.53          | 0.13          | 3922.64                         |
| MW - 9      | 03/04/11      | 3975.06                 | 52.28            | 52.54          | 0.26          | 3922.74                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 9      | 03/09/11      | 3975.06                 | 52.32            | 52.54          | 0.22          | 3922.71                         |
| MW - 9      | 04/28/11      | 3975.06                 | 52.27            | 52.51          | 0.24          | 3922.75                         |
| MW - 9      | 05/04/11      | 3975.06                 | 52.21            | 52.51          | 0.30          | 3922.81                         |
| MW - 9      | 05/11/11      | 3975.06                 | 52.34            | 52.54          | 0.20          | 3922.69                         |
| MW - 9      | 05/12/11      | 3975.06                 | 52.25            | 52.48          | 0.23          | 3922.78                         |
| MW - 9      | 05/18/11      | 3975.06                 | 52.23            | 52.41          | 0.18          | 3922.80                         |
| MW - 9      | 05/23/11      | 3975.06                 | 52.20            | 52.48          | 0.28          | 3922.82                         |
| MW - 9      | 06/08/11      | 3975.06                 | 52.41            | 52.73          | 0.32          | 3922.60                         |
| MW - 9      | 06/16/11      | 3975.06                 | 52.32            | 52.62          | 0.30          | 3922.70                         |
| MW - 9      | 06/22/11      | 3975.06                 | 52.21            | 52.54          | 0.33          | 3922.80                         |
| MW - 9      | 06/30/11      | 3975.06                 | 52.39            | 52.65          | 0.26          | 3922.63                         |
| MW - 9      | 07/06/11      | 3975.06                 | 52.34            | 52.52          | 0.18          | 3922.69                         |
| MW - 9      | 07/13/11      | 3975.06                 | 52.36            | 52.59          | 0.23          | 3922.67                         |
| MW - 9      | 07/15/11      | 3975.06                 | 52.35            | 52.58          | 0.23          | 3922.68                         |
| MW - 9      | 07/19/11      | 3975.06                 | 52.34            | 52.54          | 0.20          | 3922.69                         |
| MW - 9      | 07/21/11      | 3975.06                 | 52.33            | 52.43          | 0.10          | 3922.72                         |
| MW - 9      | 07/26/11      | 3975.06                 | 52.35            | 52.49          | 0.14          | 3922.69                         |
| MW - 9      | 07/28/11      | 3975.06                 | 52.30            | 52.46          | 0.16          | 3922.74                         |
| MW - 9      | 08/02/11      | 3975.06                 | 52.34            | 52.65          | 0.31          | 3922.67                         |
| MW - 9      | 08/09/11      | 3975.06                 | 52.30            | 52.47          | 0.17          | 3922.73                         |
| MW - 9      | 08/12/11      | 3975.06                 | 52.36            | 52.52          | 0.16          | 3922.68                         |
| MW - 9      | 08/15/11      | 3975.06                 | 52.33            | 52.52          | 0.19          | 3922.70                         |
| MW - 9      | 08/16/11      | 3975.06                 | 52.37            | 52.54          | 0.17          | 3922.66                         |
| MW - 9      | 08/19/11      | 3975.06                 | 52.37            | 52.48          | 0.11          | 3922.67                         |
| MW - 9      | 08/23/11      | 3975.06                 | 52.33            | 52.45          | 0.12          | 3922.71                         |
| MW - 9      | 08/26/11      | 3975.06                 | 52.35            | 52.56          | 0.21          | 3922.68                         |
| MW - 9      | 08/30/11      | 3975.06                 | 52.21            | 52.47          | 0.26          | 3922.81                         |
| MW - 9      | 09/01/11      | 3975.06                 | 52.40            | 52.47          | 0.07          | 3922.65                         |
| MW - 9      | 09/08/11      | 3975.06                 | -                | 52.45          | 0.00          | 3922.61                         |
| MW - 9      | 09/13/11      | 3975.06                 | -                | 52.36          | 0.00          | 3922.70                         |
| MW - 9      | 09/15/11      | 3975.06                 | -                | 52.53          | 0.00          | 3922.53                         |
| MW - 9      | 09/22/11      | 3975.06                 | -                | 52.37          | 0.00          | 3922.69                         |
| MW - 9      | 10/06/11      | 3975.06                 | -                | 52.46          | 0.00          | 3922.60                         |
| MW - 9      | 10/11/11      | 3975.06                 | -                | 52.46          | 0.00          | 3922.60                         |
| MW - 9      | 10/13/11      | 3975.06                 | -                | 52.48          | 0.00          | 3922.58                         |
| MW - 9      | 10/26/11      | 3975.06                 | -                | 52.51          | 0.00          | 3922.55                         |
| MW - 9      | 11/22/11      | 3975.06                 | 52.51            | 52.55          | 0.04          | 3922.54                         |
| MW - 9      | 12/02/11      | 3975.06                 | -                | 52.49          | 0.00          | 3922.57                         |
| MW - 9      | 12/29/11      | 3975.06                 | -                | 52.45          | 0.00          | 3922.61                         |
| MW - 9      | 01/26/12      | 3975.06                 | 52.42            | 52.45          | 0.03          | 3922.64                         |
| MW - 9      | 01/31/12      | 3975.06                 | -                | 52.35          | 0.00          | 3922.71                         |
| MW - 9      | 02/15/12      | 3975.06                 | 52.40            | 52.42          | 0.02          | 3922.66                         |
| MW - 9      | 02/28/12      | 3975.06                 | 52.38            | 52.39          | 0.01          | 3922.68                         |
| MW - 9      | 03/20/12      | 3975.06                 | 52.35            | 52.47          | 0.12          | 3922.69                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 9      | 03/27/12      | 3975.06                 | 52.35            | 52.51          | 0.16          | 3922.69                         |
| MW - 9      | 04/10/12      | 3975.06                 | 52.38            | 52.57          | 0.19          | 3922.65                         |
| MW - 9      | 04/19/12      | 3975.06                 | 52.34            | 52.52          | 0.18          | 3922.69                         |
| MW - 9      | 04/26/12      | 3975.06                 | 52.37            | 52.51          | 0.14          | 3922.67                         |
| MW - 9      | 05/08/12      | 3975.06                 | 52.37            | 52.51          | 0.14          | 3922.67                         |
| MW - 9      | 05/15/12      | 3975.06                 | 52.38            | 52.61          | 0.23          | 3922.65                         |
| MW - 9      | 05/17/12      | 3975.06                 | 52.37            | 52.60          | 0.23          | 3922.66                         |
| MW - 9      | 06/05/12      | 3975.06                 | 52.36            | 52.61          | 0.25          | 3922.66                         |
| MW - 9      | 06/21/12      | 3975.06                 | 52.36            | 52.72          | 0.36          | 3922.65                         |
| MW - 9      | 06/28/12      | 3975.06                 | 52.34            | 52.78          | 0.44          | 3922.65                         |
| MW - 9      | 07/17/12      | 3975.06                 | 52.43            | 52.76          | 0.33          | 3922.58                         |
| MW - 9      | 08/01/12      | 3975.06                 | 52.49            | 52.72          | 0.23          | 3922.54                         |
| MW - 9      | 10/02/12      | 3975.06                 | 52.52            | 52.96          | 0.44          | 3922.47                         |
| MW - 9      | 10/09/12      | 3975.06                 | 52.38            | 52.60          | 0.22          | 3922.65                         |
| MW - 9      | 10/16/12      | 3975.06                 | 52.52            | 52.83          | 0.31          | 3922.49                         |
| MW - 9      | 10/25/12      | 3975.06                 | 52.51            | 52.93          | 0.42          | 3922.49                         |
| MW - 9      | 10/30/12      | 3975.06                 | 52.51            | 52.92          | 0.41          | 3922.49                         |
| MW - 9      | 11/29/12      | 3975.06                 | 52.44            | 52.95          | 0.51          | 3922.54                         |
| MW - 9      | 12/14/12      | 3975.06                 | 52.48            | 52.92          | 0.44          | 3922.51                         |
| MW - 9      | 02/11/13      | 3975.06                 | 52.46            | 52.98          | 0.52          | 3922.52                         |
| MW - 9      | 04/11/13      | 3975.06                 | 52.52            | 52.85          | 0.33          | 3922.49                         |
| MW - 9      | 04/15/13      | 3975.06                 | 52.39            | 52.66          | 0.27          | 3922.63                         |
| MW - 9      | 04/22/13      | 3975.06                 | 52.51            | 52.79          | 0.28          | 3922.51                         |
| MW - 9      | 05/06/13      | 3975.06                 | 52.53            | 52.90          | 0.37          | 3922.47                         |
| MW - 9      | 05/09/13      | 3975.06                 | 52.53            | 52.93          | 0.40          | 3922.47                         |
| MW - 9      | 05/20/13      | 3975.06                 | 52.53            | 52.99          | 0.46          | 3922.46                         |
| MW - 9      | 05/24/13      | 3975.06                 | 52.61            | 53.07          | 0.46          | 3922.38                         |
| MW - 9      | 05/29/13      | 3975.06                 | 52.47            | 52.54          | 0.07          | 3922.58                         |
| MW - 9      | 05/31/13      | 3975.06                 | 52.49            | 52.75          | 0.26          | 3922.53                         |
| MW - 9      | 06/07/13      | 3975.06                 | 52.45            | 52.73          | 0.28          | 3922.57                         |
| MW - 9      | 06/12/13      | 3975.06                 | 52.43            | 52.69          | 0.26          | 3922.59                         |
| MW - 9      | 06/14/13      | 3975.06                 | 52.44            | 52.70          | 0.26          | 3922.58                         |
| MW - 9      | 06/19/13      | 3975.06                 | 52.43            | 52.58          | 0.15          | 3922.61                         |
| MW - 9      | 06/21/13      | 3975.06                 | 52.47            | 52.61          | 0.14          | 3922.57                         |
| MW - 9      | 06/25/13      | 3975.06                 | 52.43            | 52.63          | 0.20          | 3922.60                         |
| MW - 9      | 06/26/13      | 3975.06                 | 52.57            | 52.75          | 0.18          | 3922.46                         |
| MW - 9      | 07/03/13      | 3975.06                 | 52.62            | 52.92          | 0.30          | 3922.40                         |
| MW - 9      | 07/09/13      | 3975.06                 | 52.69            | 53.05          | 0.36          | 3922.32                         |
| MW - 9      | 07/11/13      | 3975.06                 | 52.52            | 52.84          | 0.32          | 3922.49                         |
| MW - 9      | 07/24/13      | 3975.06                 | 52.47            | 52.83          | 0.36          | 3922.54                         |
| MW - 9      | 07/26/13      | 3975.06                 | 52.45            | 52.78          | 0.33          | 3922.56                         |
| MW - 9      | 07/31/13      | 3975.06                 | 52.45            | 52.81          | 0.36          | 3922.56                         |
| MW - 9      | 08/02/13      | 3975.06                 | 52.48            | 52.85          | 0.37          | 3922.52                         |
| MW - 9      | 08/06/13      | 3975.06                 | 52.49            | 52.87          | 0.38          | 3922.51                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 9         | 08/14/13         | 3975.06                       | 52.45               | 52.86             | 0.41             | 3922.55                               |
| MW - 9         | 08/21/13         | 3975.06                       | 52.50               | 52.94             | 0.44             | 3922.49                               |
| MW - 9         | 08/26/13         | 3975.06                       | 52.53               | 52.95             | 0.42             | 3922.47                               |
| MW - 9         | 09/06/13         | 3975.06                       | 52.60               | 53.03             | 0.43             | 3922.40                               |
| MW - 9         | 08/30/13         | 3975.06                       | 52.50               | 52.87             | 0.37             | 3922.50                               |
| MW - 9         | 09/13/13         | 3975.06                       | 52.62               | 52.91             | 0.29             | 3922.40                               |
| MW - 9         | 09/27/13         | 3975.06                       | 52.58               | 53.00             | 0.42             | 3922.42                               |
| MW - 9         | 09/30/13         | 3975.06                       | 52.55               | 52.95             | 0.40             | 3922.45                               |
| MW - 9         | 10/02/13         | 3975.06                       | 52.53               | 52.93             | 0.40             | 3922.47                               |
| MW - 9         | 10/03/13         | 3975.06                       | 52.52               | 52.92             | 0.40             | 3922.48                               |
| MW - 9         | 10/11/13         | 3975.06                       | 52.62               | 52.98             | 0.36             | 3922.39                               |
| MW - 9         | 10/17/13         | 3975.06                       | 52.64               | 52.97             | 0.33             | 3922.37                               |
| MW - 9         | 10/22/13         | 3975.06                       | 52.65               | 52.95             | 0.30             | 3922.37                               |
| MW - 9         | 10/24/13         | 3975.06                       | 52.70               | 52.91             | 0.21             | 3922.33                               |
| MW - 9         | 10/30/13         | 3975.06                       | 52.66               | 52.94             | 0.28             | 3922.36                               |
| MW - 9         | 11/01/13         | 3975.06                       | 52.64               | 52.87             | 0.23             | 3922.39                               |
| MW - 9         | 11/04/13         | 3975.06                       | 52.66               | 52.98             | 0.32             | 3922.35                               |
| MW - 9         | 11/08/13         | 3975.06                       | 52.65               | 53.00             | 0.35             | 3922.36                               |
| MW - 9         | 11/13/13         | 3975.06                       | 52.63               | 53.01             | 0.38             | 3922.37                               |
| MW - 9         | 11/15/13         | 3975.06                       | 52.63               | 53.03             | 0.40             | 3922.37                               |
| MW - 9         | 11/18/13         | 3975.06                       | 52.65               | 53.15             | 0.50             | 3922.34                               |
| MW - 9         | 12/12/13         | 3975.06                       | 52.65               | 53.23             | 0.58             | 3922.32                               |
| MW - 9         | 12/16/13         | 3975.06                       | 52.64               | 53.25             | 0.61             | 3922.33                               |
| MW - 9         | 12/18/13         | 3975.06                       | 52.66               | 53.21             | 0.55             | 3922.32                               |
| MW - 9         | 12/23/13         | 3975.06                       | 52.60               | 53.05             | 0.45             | 3922.39                               |
| MW - 9         | 12/30/13         | 3975.06                       | 52.60               | 52.95             | 0.35             | 3922.41                               |
| MW - 9         | 01/09/15         | 3974.60                       | -                   | 52.68             | 0.00             | 3921.92                               |
| MW - 9         | 01/06/14         | 3975.06                       | 52.62               | 53.02             | 0.40             | 3922.38                               |
| MW - 9         | 01/15/14         | 3975.06                       | 52.63               | 53.09             | 0.46             | 3922.36                               |
| MW - 9         | 01/17/14         | 3975.06                       | 52.62               | 53.05             | 0.43             | 3922.38                               |
| MW - 9         | 01/20/14         | 3975.06                       | 52.63               | 52.96             | 0.33             | 3922.38                               |
| MW - 9         | 01/22/14         | 3975.06                       | 52.77               | 52.90             | 0.13             | 3922.27                               |
| MW - 9         | 01/29/14         | 3975.06                       | 52.66               | 53.17             | 0.51             | 3922.32                               |
| MW - 9         | 02/04/14         | 3975.06                       | 52.64               | 53.11             | 0.47             | 3922.35                               |
| MW - 9         | 02/13/14         | 3975.06                       | 52.65               | 53.20             | 0.55             | 3922.33                               |
| MW - 9         | 02/21/14         | 3975.06                       | 52.59               | 53.05             | 0.46             | 3922.40                               |
| MW - 9         | 02/26/14         | 3975.06                       | 52.61               | 55.16             | 2.55             | 3922.07                               |
| MW - 9         | 03/12/14         | 3975.06                       | 52.58               | 53.10             | 0.52             | 3922.40                               |
| MW - 9         | 03/14/14         | 3975.06                       | 52.56               | 53.05             | 0.49             | 3922.43                               |
| MW - 9         | 03/17/14         | 3975.06                       | 52.56               | 53.08             | 0.52             | 3922.42                               |
| MW - 9         | 03/24/14         | 3975.06                       | 52.56               | 52.94             | 0.38             | 3922.44                               |
| MW - 9         | 03/26/14         | 3975.06                       | 52.60               | 52.91             | 0.31             | 3922.41                               |
| MW - 9         | 04/09/14         | 3975.06                       | 52.63               | 53.02             | 0.39             | 3922.37                               |
| MW - 9         | 04/18/14         | 3975.06                       | 52.65               | 53.00             | 0.35             | 3922.36                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 9      | 04/21/14      | 3975.06                 | 52.65            | 52.99          | 0.34          | 3922.36                         |
| MW - 9      | 04/28/14      | 3975.06                 | 52.65            | 53.03          | 0.38          | 3922.35                         |
| MW - 9      | 05/09/14      | 3975.06                 | 52.67            | 53.15          | 0.48          | 3922.32                         |
| MW - 9      | 05/12/14      | 3975.06                 | 52.64            | 52.95          | 0.31          | 3922.37                         |
| MW - 9      | 05/19/14      | 3975.06                 | 52.62            | 52.98          | 0.36          | 3922.39                         |
| MW - 9      | 05/28/14      | 3975.06                 | 52.69            | 52.90          | 0.21          | 3922.34                         |
| MW - 9      | 06/04/14      | 3975.06                 | 52.66            | 52.81          | 0.15          | 3922.38                         |
| MW - 9      | 06/13/14      | 3975.06                 | 52.63            | 52.85          | 0.22          | 3922.40                         |
| MW - 9      | 06/16/14      | 3975.06                 | 52.69            | 52.90          | 0.21          | 3922.34                         |
| MW - 9      | 07/02/14      | 3975.06                 | 52.70            | 53.11          | 0.41          | 3922.30                         |
| MW - 9      | 07/07/14      | 3975.06                 | 52.73            | 53.04          | 0.31          | 3922.28                         |
| MW - 9      | 07/18/14      | 3975.06                 | 52.73            | 53.10          | 0.37          | 3922.27                         |
| MW - 9      | 07/30/14      | 3975.06                 | 52.69            | 53.13          | 0.44          | 3922.30                         |
| MW - 9      | 08/11/14      | 3975.06                 | 52.70            | 53.20          | 0.50          | 3922.29                         |
| MW - 9      | 08/22/14      | 3975.06                 | 52.74            | 53.33          | 0.59          | 3922.23                         |
| MW - 9      | 08/23/14      | 3975.06                 | 52.74            | 53.33          | 0.59          | 3922.23                         |
| MW - 9      | 09/10/14      | 3975.06                 | 52.79            | 53.45          | 0.66          | 3922.17                         |
| MW - 9      | 09/23/14      | 3975.06                 | 52.83            | 53.29          | 0.46          | 3922.16                         |
| MW - 9      | 09/25/14      | 3975.06                 | 52.98            | 53.35          | 0.37          | 3922.02                         |
| MW - 9      | 10/03/14      | 3975.06                 | 52.76            | 53.28          | 0.52          | 3922.22                         |
| MW - 9      | 10/15/14      | 3975.06                 | 52.79            | 53.44          | 0.65          | 3922.17                         |
| MW - 9      | 10/17/14      | 3975.06                 | 52.79            | 53.40          | 0.61          | 3922.18                         |
| MW - 9      | 10/24/14      | 3975.06                 | 52.77            | 53.02          | 0.25          | 3922.25                         |
| MW - 9      | 10/27/14      | 3975.06                 | 52.74            | 53.00          | 0.26          | 3922.28                         |
| MW - 9      | 10/31/14      | 3975.06                 | 52.76            | 53.14          | 0.38          | 3922.24                         |
| MW - 9      | 11/03/14      | 3975.06                 | 52.58            | 53.21          | 0.63          | 3922.39                         |
| MW - 9      | 11/10/14      | 3975.06                 | 52.75            | 53.11          | 0.36          | 3922.26                         |
| MW - 9      | 11/14/14      | 3975.06                 | 52.77            | 53.04          | 0.27          | 3922.25                         |
| MW - 9      | 11/17/14      | 3975.06                 | 52.90            | 53.03          | 0.13          | 3922.14                         |
| MW - 9      | 11/18/14      | 3975.06                 | 52.90            | 53.03          | 0.13          | 3922.14                         |
| MW - 9      | 11/21/14      | 3975.06                 | 52.82            | 53.03          | 0.21          | 3922.21                         |
| MW - 9      | 12/03/14      | 3975.06                 | 52.78            | 53.17          | 0.39          | 3922.22                         |
| MW - 9      | 12/05/14      | 3975.06                 | 52.81            | 53.03          | 0.22          | 3922.22                         |
| MW - 9      | 12/12/14      | 3975.06                 | 52.83            | 53.05          | 0.22          | 3922.20                         |
| MW - 9      | 12/15/14      | 3975.06                 | 52.83            | 53.05          | 0.22          | 3922.20                         |
| MW - 9      | 12/19/14      | 3975.06                 | 52.80            | 53.03          | 0.23          | 3922.23                         |
| MW - 9      | 12/22/14      | 3975.06                 | 52.78            | 53.01          | 0.23          | 3922.25                         |
| MW - 9      | 01/05/15      | 3975.06                 | 52.74            | 52.97          | 0.23          | 3922.29                         |
| MW - 9      | 01/09/15      | 3975.06                 | 52.73            | 53.23          | 0.50          | 3922.26                         |
| MW - 9      | 01/14/15      | 3975.06                 | 52.72            | 53.28          | 0.56          | 3922.26                         |
| MW - 9      | 01/21/15      | 3975.06                 | 52.71            | 52.96          | 0.25          | 3922.31                         |
| MW - 9      | 02/18/15      | 3975.06                 | 52.72            | 53.00          | 0.28          | 3922.30                         |
| MW - 9      | 02/19/15      | 3975.06                 | 52.73            | 53.06          | 0.33          | 3922.28                         |
| MW - 9      | 03/09/15      | 3975.06                 | 52.73            | 52.98          | 0.25          | 3922.29                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 9      | 03/11/15      | 3975.06                 | 52.70            | 53.26          | 0.56          | 3922.28                         |
| MW - 9      | 03/18/15      | 3975.06                 | 52.76            | 53.08          | 0.32          | 3922.25                         |
| MW - 9      | 03/31/15      | 3975.06                 | 52.74            | 52.97          | 0.23          | 3922.29                         |
| MW - 9      | 04/09/15      | 3975.06                 | 52.63            | 53.28          | 0.65          | 3922.33                         |
| MW - 9      | 04/15/15      | 3975.06                 | 52.66            | 53.31          | 0.65          | 3922.30                         |
| MW - 9      | 04/22/15      | 3975.06                 | 52.66            | 53.34          | 0.68          | 3922.30                         |
| MW - 9      | 05/12/15      | 3975.06                 | 52.70            | 53.23          | 0.53          | 3922.28                         |
| MW - 9      | 05/26/15      | 3975.06                 | 52.74            | 52.94          | 0.20          | 3922.29                         |
| MW - 9      | 06/01/15      | 3975.06                 | 52.69            | 53.24          | 0.55          | 3922.29                         |
| MW - 9      | 06/04/15      | 3975.06                 | 52.71            | 53.26          | 0.55          | 3922.27                         |
| MW - 9      | 06/22/15      | 3975.06                 | 52.64            | 53.26          | 0.62          | 3922.33                         |
| MW - 9      | 06/26/15      | 3975.06                 | 52.73            | 53.36          | 0.63          | 3922.24                         |
| MW - 9      | 07/22/15      | 3975.06                 | 52.57            | 53.09          | 0.52          | 3922.41                         |
| MW - 9      | 07/27/15      | 3975.06                 | 52.71            | 53.08          | 0.37          | 3922.29                         |
| MW - 9      | 08/18/15      | 3975.06                 | 52.01            | 53.05          | 1.04          | 3922.89                         |
| MW - 9      | 09/09/15      | 3975.06                 | 52.73            | 53.29          | 0.56          | 3922.25                         |
| MW - 9      | 10/08/15      | 3975.06                 | 52.73            | 53.08          | 0.35          | 3922.28                         |
| MW - 9      | 09/30/15      | 3975.06                 | 52.81            | 53.35          | 0.54          | 3922.17                         |
| MW - 9      | 10/16/15      | 3975.06                 | 52.85            | 53.29          | 0.44          | 3922.14                         |
| MW - 9      | 10/21/15      | 3975.06                 | 52.75            | 53.40          | 0.65          | 3922.21                         |
| MW - 9      | 11/18/15      | 3975.06                 | 52.75            | 53.15          | 0.40          | 3922.25                         |
| MW - 9      | 11/23/15      | 3975.06                 | 52.78            | 52.99          | 0.21          | 3922.25                         |
| MW - 9      | 12/04/15      | 3975.06                 | 52.75            | 53.18          | 0.43          | 3922.25                         |
| MW - 9      | 12/09/15      | 3975.06                 | 52.85            | 53.26          | 0.41          | 3922.15                         |
|             |               |                         |                  |                |               |                                 |
| MW - 10     | 03/02/00      | 3975.02                 | 53.44            | 53.99          | 0.55          | 3921.50                         |
| MW - 10     | 04/25/00      | 3975.02                 | -                | 53.18          | 0.00          | 3921.84                         |
| MW - 10     | 09/06/00      | 3975.02                 | -                | 53.22          | 0.00          | 3921.80                         |
| MW - 10     | 11/28/00      | 3975.02                 | -                | 53.23          | 0.00          | 3921.79                         |
| MW - 10     | 02/21/01      | 3975.02                 | -                | 53.15          | 0.00          | 3921.87                         |
| MW - 10     | 05/31/01      | 3975.02                 | -                | 53.08          | 0.00          | 3921.94                         |
| MW - 10     | 08/23/01      | 3975.02                 | -                | 53.10          | 0.00          | 3921.92                         |
| MW - 10     | 11/21/01      | 3975.02                 | -                | 53.13          | 0.00          | 3921.89                         |
| MW - 10     | 02/13/02      | 3975.02                 | -                | 53.16          | 0.00          | 3921.86                         |
| MW - 10     | 06/12/02      | 3975.02                 | -                | 53.14          | 0.00          | 3921.88                         |
| MW - 10     | 08/26/02      | 3975.02                 | -                | 53.14          | 0.00          | 3921.88                         |
| MW - 10     | 11/21/02      | 3975.02                 | -                | 53.20          | 0.00          | 3921.82                         |
| MW - 10     | 02/05/03      | 3975.02                 | -                | 53.90          | 0.00          | 3921.12                         |
| MW - 10     | 05/07/03      | 3975.02                 | -                | 53.14          | 0.00          | 3921.88                         |
| MW - 10     | 08/18/03      | 3975.02                 | -                | 53.19          | 0.00          | 3921.83                         |
| MW - 10     | 12/01/03      | 3975.02                 | -                | 53.23          | 0.00          | 3921.79                         |
| MW - 10     | 02/05/04      | 3975.02                 | -                | 53.23          | 0.00          | 3921.79                         |
| MW - 10     | 05/05/04      | 3975.02                 | -                | 53.20          | 0.00          | 3921.82                         |
| MW - 10     | 09/01/04      | 3975.02                 | -                | 53.25          | 0.00          | 3921.77                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 10     | 12/15/04      | 3975.02                 | -                | 53.20          | 0.00          | 3921.82                         |
| MW - 10     | 03/22/05      | 3975.02                 | -                | 53.00          | 0.00          | 3922.02                         |
| MW - 10     | 06/22/05      | 3975.02                 | -                | 52.91          | 0.00          | 3922.11                         |
| MW - 10     | 09/21/05      | 3975.02                 | -                | 52.84          | 0.00          | 3922.18                         |
| MW - 10     | 12/16/05      | 3975.02                 | -                | 52.76          | 0.00          | 3922.26                         |
| MW - 10     | 03/20/06      | 3975.02                 | -                | 52.71          | 0.00          | 3922.31                         |
| MW - 10     | 06/21/06      | 3975.02                 | -                | 52.71          | 0.00          | 3922.31                         |
| MW - 10     | 09/27/06      | 3975.02                 | -                | 52.64          | 0.00          | 3922.38                         |
| MW - 10     | 12/04/06      | 3975.02                 | -                | 52.64          | 0.00          | 3922.38                         |
| MW - 10     | 03/14/07      | 3975.02                 | -                | 52.57          | 0.00          | 3922.45                         |
| MW - 10     | 05/29/07      | 3975.02                 | -                | 52.54          | 0.00          | 3922.48                         |
| MW - 10     | 08/30/07      | 3975.02                 | -                | 52.53          | 0.00          | 3922.49                         |
| MW - 10     | 11/12/07      | 3975.02                 | -                | 52.43          | 0.00          | 3922.59                         |
| MW - 10     | 03/07/08      | 3975.02                 | -                | 52.41          | 0.00          | 3922.61                         |
| MW - 10     | 06/02/08      | 3975.02                 | -                | 52.34          | 0.00          | 3922.68                         |
| MW - 10     | 09/03/08      | 3975.02                 | -                | 52.38          | 0.00          | 3922.64                         |
| MW - 10     | 12/08/08      | 3975.02                 | -                | 52.33          | 0.00          | 3922.69                         |
| MW - 10     | 02/19/09      | 3975.02                 | -                | 52.31          | 0.00          | 3922.71                         |
| MW - 10     | 05/20/09      | 3975.02                 | -                | 52.28          | 0.00          | 3922.74                         |
| MW - 10     | 08/12/09      | 3975.02                 | -                | 52.27          | 0.00          | 3922.75                         |
| MW - 10     | 11/25/09      | 3975.02                 | -                | 52.29          | 0.00          | 3922.73                         |
| MW - 10     | 01/07/10      | 3975.02                 | -                | 52.25          | 0.00          | 3922.77                         |
| MW - 10     | 02/11/10      | 3975.02                 | -                | 52.24          | 0.00          | 3922.78                         |
| MW - 10     | 05/17/10      | 3975.02                 | -                | 52.41          | 0.00          | 3922.61                         |
| MW - 10     | 08/16/10      | 3975.02                 | -                | 52.41          | 0.00          | 3922.61                         |
| MW - 10     | 11/10/10      | 3975.02                 | -                | 52.42          | 0.00          | 3922.60                         |
| MW - 10     | 02/28/11      | 3975.02                 | -                | 52.42          | 0.00          | 3922.60                         |
| MW - 10     | 05/12/11      | 3975.02                 | -                | 52.11          | 0.00          | 3922.91                         |
| MW - 10     | 08/15/11      | 3975.02                 | -                | 52.13          | 0.00          | 3922.89                         |
| MW - 10     | 11/22/11      | 3975.02                 | -                | 52.20          | 0.00          | 3922.82                         |
| MW - 10     | 02/28/12      | 3975.02                 | -                | 52.22          | 0.00          | 3922.80                         |
| MW - 10     | 05/17/12      | 3975.02                 | -                | 52.25          | 0.00          | 3922.77                         |
| MW - 10     | 08/01/12      | 3975.02                 | -                | 52.36          | 0.00          | 3922.66                         |
| MW - 10     | 10/25/12      | 3975.02                 | -                | 52.41          | 0.00          | 3922.61                         |
| MW - 10     | 11/29/12      | 3975.02                 | -                | 52.33          | 0.00          | 3922.69                         |
| MW - 10     | 02/11/13      | 3975.02                 | -                | 52.36          | 0.00          | 3922.66                         |
| MW - 10     | 04/11/13      | 3975.02                 | -                | 52.34          | 0.00          | 3922.68                         |
| MW - 10     | 05/06/13      | 3975.02                 | -                | 52.44          | 0.00          | 3922.58                         |
| MW - 10     | 05/29/13      | 3975.02                 | -                | 52.41          | 0.00          | 3922.61                         |
| MW - 10     | 06/26/13      | 3975.02                 | -                | 52.36          | 0.00          | 3922.66                         |
| MW - 10     | 07/31/13      | 3975.02                 | -                | 52.29          | 0.00          | 3922.73                         |
| MW - 10     | 08/06/13      | 3975.02                 | -                | 52.33          | 0.00          | 3922.69                         |
| MW - 10     | 09/30/13      | 3975.02                 | -                | 52.40          | 0.00          | 3922.62                         |
| MW - 10     | 11/18/13      | 3975.02                 | -                | 52.56          | 0.00          | 3922.46                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 10     | 02/04/14      | 3975.02                 | -                | 52.58          | 0.00          | 3922.44                         |
| MW - 10     | 04/28/14      | 3975.02                 | -                | 52.55          | 0.00          | 3922.47                         |
| MW - 10     | 05/28/14      | 3975.02                 | -                | 52.50          | 0.00          | 3922.52                         |
| MW - 10     | 07/30/14      | 3975.02                 | -                | 52.59          | 0.00          | 3922.43                         |
| MW - 10     | 08/23/14      | 3975.02                 | -                | 52.67          | 0.00          | 3922.35                         |
| MW - 10     | 10/31/14      | 3975.02                 | -                | 52.64          | 0.00          | 3922.38                         |
| MW - 10     | 11/18/14      | 3975.02                 | -                | 52.66          | 0.00          | 3922.36                         |
| MW - 10     | 01/09/15      | 3975.02                 | -                | 52.64          | 0.00          | 3922.38                         |
| MW - 10     | 02/19/15      | 3975.02                 | -                | 52.61          | 0.00          | 3922.41                         |
| MW - 10     | 03/31/15      | 3975.02                 | -                | 52.55          | 0.00          | 3922.47                         |
| MW - 10     | 04/09/15      | 3975.02                 | -                | 52.58          | 0.00          | 3922.44                         |
| MW - 10     | 05/12/15      | 3975.02                 | -                | 52.59          | 0.00          | 3922.43                         |
| MW - 10     | 07/27/15      | 3975.02                 | -                | 52.58          | 0.00          | 3922.44                         |
| MW - 10     | 08/18/15      | 3975.02                 | -                | 52.51          | 0.00          | 3922.51                         |
| MW - 10     | 10/08/15      | 3975.02                 | -                | 52.57          | 0.00          | 3922.45                         |
| MW - 10     | 11/23/15      | 3975.02                 | -                | 52.62          | 0.00          | 3922.40                         |
|             |               |                         |                  |                |               |                                 |
| MW - 11     | 03/02/00      | 3975.30                 | -                | 53.84          | 0.00          | 3921.46                         |
| MW - 11     | 04/25/00      | 3975.30                 | -                | 53.91          | 0.00          | 3921.39                         |
| MW - 11     | 09/06/00      | 3975.30                 | -                | 53.95          | 0.00          | 3921.35                         |
| MW - 11     | 11/28/00      | 3975.30                 | -                | 53.96          | 0.00          | 3921.34                         |
| MW - 11     | 02/21/01      | 3975.30                 | -                | 53.79          | 0.00          | 3921.51                         |
| MW - 11     | 05/31/01      | 3975.30                 | -                | 53.77          | 0.00          | 3921.53                         |
| MW - 11     | 08/23/01      | 3975.30                 | -                | 53.83          | 0.00          | 3921.47                         |
| MW - 11     | 11/21/01      | 3975.30                 | -                | 53.87          | 0.00          | 3921.43                         |
| MW - 11     | 02/13/02      | 3975.30                 | -                | 52.85          | 0.00          | 3922.45                         |
| MW - 11     | 06/12/02      | 3975.30                 | -                | 53.87          | 0.00          | 3921.43                         |
| MW - 11     | 08/26/02      | 3975.30                 | -                | 53.89          | 0.00          | 3921.41                         |
| MW - 11     | 11/21/02      | 3975.30                 | -                | 53.93          | 0.00          | 3921.37                         |
| MW - 11     | 02/05/03      | 3975.30                 | -                | 53.90          | 0.00          | 3921.40                         |
| MW - 11     | 05/07/03      | 3975.30                 | -                | 53.86          | 0.00          | 3921.44                         |
| MW - 11     | 08/18/03      | 3975.30                 | -                | 53.93          | 0.00          | 3921.37                         |
| MW - 11     | 12/01/03      | 3975.30                 | -                | 53.96          | 0.00          | 3921.34                         |
| MW - 11     | 02/05/04      | 3975.30                 | -                | 53.97          | 0.00          | 3921.33                         |
| MW - 11     | 05/05/04      | 3975.30                 | -                | 53.93          | 0.00          | 3921.37                         |
| MW - 11     | 09/01/04      | 3975.30                 | -                | 54.00          | 0.00          | 3921.30                         |
| MW - 11     | 12/15/04      | 3975.30                 | -                | 53.95          | 0.00          | 3921.35                         |
| MW - 11     | 03/22/05      | 3975.30                 | -                | 53.75          | 0.00          | 3921.55                         |
| MW - 11     | 06/22/05      | 3975.30                 | -                | 53.64          | 0.00          | 3921.66                         |
| MW - 11     | 09/21/05      | 3975.30                 | -                | 53.56          | 0.00          | 3921.74                         |
| MW - 11     | 12/16/05      | 3975.30                 | -                | 53.60          | 0.00          | 3921.70                         |
| MW - 11     | 03/20/06      | 3975.30                 | -                | 53.45          | 0.00          | 3921.85                         |
| MW - 11     | 06/21/06      | 3975.30                 | -                | 53.43          | 0.00          | 3921.87                         |
| MW - 11     | 09/27/06      | 3975.30                 | -                | 53.42          | 0.00          | 3921.88                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 11     | 12/04/06      | 3975.30                 | -                | 53.37          | 0.00          | 3921.93                         |
| MW - 11     | 03/14/07      | 3975.30                 | -                | 53.33          | 0.00          | 3921.97                         |
| MW - 11     | 05/29/07      | 3975.30                 | -                | 53.29          | 0.00          | 3922.01                         |
| MW - 11     | 08/30/07      | 3975.30                 | -                | 53.27          | 0.00          | 3922.03                         |
| MW - 11     | 11/12/07      | 3975.30                 | -                | 53.23          | 0.00          | 3922.07                         |
| MW - 11     | 03/07/08      | 3975.30                 | -                | 53.17          | 0.00          | 3922.13                         |
| MW - 11     | 06/02/08      | 3975.30                 | -                | 53.12          | 0.00          | 3922.18                         |
| MW - 11     | 09/03/08      | 3975.30                 | -                | 53.12          | 0.00          | 3922.18                         |
| MW - 11     | 12/08/08      | 3975.30                 | -                | 53.10          | 0.00          | 3922.20                         |
| MW - 11     | 02/19/09      | 3975.30                 | -                | 53.08          | 0.00          | 3922.22                         |
| MW - 11     | 05/20/09      | 3975.30                 | -                | 53.04          | 0.00          | 3922.26                         |
| MW - 11     | 08/12/09      | 3975.30                 | -                | 53.03          | 0.00          | 3922.27                         |
| MW - 11     | 11/25/09      | 3975.30                 | -                | 53.03          | 0.00          | 3922.27                         |
| MW - 11     | 01/07/10      | 3975.30                 | -                | 53.02          | 0.00          | 3922.28                         |
| MW - 11     | 02/11/10      | 3975.30                 | -                | 52.99          | 0.00          | 3922.31                         |
| MW - 11     | 05/17/10      | 3975.30                 | -                | 53.16          | 0.00          | 3922.14                         |
| MW - 11     | 08/16/10      | 3975.30                 | -                | 53.15          | 0.00          | 3922.15                         |
| MW - 11     | 11/10/10      | 3975.30                 | -                | 53.17          | 0.00          | 3922.13                         |
| MW - 11     | 02/28/11      | 3975.30                 | -                | 53.15          | 0.00          | 3922.15                         |
| MW - 11     | 05/12/11      | 3975.30                 | -                | 52.96          | 0.00          | 3922.34                         |
| MW - 11     | 08/15/11      | 3975.30                 | -                | 53.10          | 0.00          | 3922.20                         |
| MW - 11     | 11/22/11      | 3975.30                 | -                | 53.05          | 0.00          | 3922.25                         |
| MW - 11     | 02/28/12      | 3975.30                 | -                | 53.01          | 0.00          | 3922.29                         |
| MW - 11     | 05/17/12      | 3975.30                 | -                | 53.00          | 0.00          | 3922.30                         |
| MW - 11     | 08/01/12      | 3975.30                 | -                | 53.12          | 0.00          | 3922.18                         |
| MW - 11     | 10/25/12      | 3975.30                 | -                | 53.15          | 0.00          | 3922.15                         |
| MW - 11     | 11/29/12      | 3975.30                 | -                | 53.23          | 0.00          | 3922.07                         |
| MW - 11     | 02/11/13      | 3975.30                 | -                | 53.16          | 0.00          | 3922.14                         |
| MW - 11     | 04/11/13      | 3975.30                 | -                | 53.39          | 0.00          | 3921.91                         |
| MW - 11     | 05/06/13      | 3975.30                 | -                | 53.19          | 0.00          | 3922.11                         |
| MW - 11     | 05/29/13      | 3975.30                 | -                | 53.34          | 0.00          | 3921.96                         |
| MW - 11     | 06/26/13      | 3975.30                 | -                | 53.36          | 0.00          | 3921.94                         |
| MW - 11     | 07/31/13      | 3975.30                 | -                | 53.29          | 0.00          | 3922.01                         |
| MW - 11     | 08/06/13      | 3975.30                 | -                | 53.26          | 0.00          | 3922.04                         |
| MW - 11     | 09/30/13      | 3975.30                 | -                | 53.35          | 0.00          | 3921.95                         |
| MW - 11     | 11/18/13      | 3975.30                 | -                | 53.32          | 0.00          | 3921.98                         |
| MW - 11     | 02/04/14      | 3975.30                 | -                | 53.30          | 0.00          | 3922.00                         |
| MW - 11     | 04/28/14      | 3975.30                 | -                | 53.31          | 0.00          | 3921.99                         |
| MW - 11     | 05/28/14      | 3975.30                 | -                | 53.40          | 0.00          | 3921.90                         |
| MW - 11     | 07/30/14      | 3975.30                 | -                | 53.40          | 0.00          | 3921.90                         |
| MW - 11     | 08/23/14      | 3975.30                 | -                | 53.43          | 0.00          | 3921.87                         |
| MW - 11     | 10/31/14      | 3975.30                 | -                | 53.45          | 0.00          | 3921.85                         |
| MW - 11     | 11/18/14      | 3975.30                 | -                | 53.43          | 0.00          | 3921.87                         |
| MW - 11     | 01/09/15      | 3975.30                 | -                | 53.39          | 0.00          | 3921.91                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 11     | 02/19/15      | 3975.30                 | -                | 53.40          | 0.00          | 3921.90                         |
| MW - 11     | 03/31/15      | 3975.30                 | -                | 53.40          | 0.00          | 3921.90                         |
| MW - 11     | 04/09/15      | 3975.30                 | -                | 53.33          | 0.00          | 3921.97                         |
| MW - 11     | 05/12/15      | 3975.30                 | -                | 53.55          | 0.00          | 3921.75                         |
| MW - 11     | 07/27/15      | 3975.30                 | -                | 53.42          | 0.00          | 3921.88                         |
| MW - 11     | 08/18/15      | 3975.30                 | -                | 53.36          | 0.00          | 3921.94                         |
| MW - 11     | 10/08/15      | 3975.30                 | -                | 53.48          | 0.00          | 3921.82                         |
| MW - 11     | 11/23/15      | 3975.30                 | -                | 53.42          | 0.00          | 3921.88                         |
|             |               |                         |                  |                |               |                                 |
| MW - 12     | 03/02/00      | 3974.55                 | -                | 52.80          | 0.00          | 3921.75                         |
| MW - 12     | 04/25/00      | 3974.55                 | -                | 52.86          | 0.00          | 3921.69                         |
| MW - 12     | 09/06/00      | 3974.55                 | -                | 52.90          | 0.00          | 3921.65                         |
| MW - 12     | 11/28/00      | 3974.55                 | -                | 52.92          | 0.00          | 3921.63                         |
| MW - 12     | 02/21/01      | 3974.55                 | -                | 52.75          | 0.00          | 3921.80                         |
| MW - 12     | 05/31/01      | 3974.55                 | -                | 52.75          | 0.00          | 3921.80                         |
| MW - 12     | 08/31/01      | 3974.55                 | -                | 52.78          | 0.00          | 3921.77                         |
| MW - 12     | 11/21/01      | 3974.55                 | -                | 52.82          | 0.00          | 3921.73                         |
| MW - 12     | 02/13/02      | 3974.55                 | -                | 52.85          | 0.00          | 3921.70                         |
| MW - 12     | 06/12/02      | 3974.55                 | -                | 52.83          | 0.00          | 3921.72                         |
| MW - 12     | 08/26/02      | 3974.55                 | -                | 52.83          | 0.00          | 3921.72                         |
| MW - 12     | 11/21/02      | 3974.55                 | -                | 52.89          | 0.00          | 3921.66                         |
| MW - 12     | 02/05/03      | 3974.55                 | -                | 52.88          | 0.00          | 3921.67                         |
| MW - 12     | 05/07/03      | 3974.55                 | -                | 52.82          | 0.00          | 3921.73                         |
| MW - 12     | 08/18/03      | 3974.55                 | -                | 52.89          | 0.00          | 3921.66                         |
| MW - 12     | 12/01/03      | 3974.55                 | -                | 52.93          | 0.00          | 3921.62                         |
| MW - 12     | 02/05/04      | 3974.55                 | -                | 52.92          | 0.00          | 3921.63                         |
| MW - 12     | 05/05/04      | 3974.55                 | -                | 52.90          | 0.00          | 3921.65                         |
| MW - 12     | 09/01/04      | 3974.55                 | -                | 52.94          | 0.00          | 3921.61                         |
| MW - 12     | 12/15/04      | 3974.55                 | -                | 52.90          | 0.00          | 3921.65                         |
| MW - 12     | 03/22/05      | 3974.55                 | -                | 52.69          | 0.00          | 3921.86                         |
| MW - 12     | 06/22/05      | 3974.55                 | -                | 52.58          | 0.00          | 3921.97                         |
| MW - 12     | 09/21/05      | 3974.55                 | -                | 52.51          | 0.00          | 3922.04                         |
| MW - 12     | 12/16/05      | 3974.55                 | -                | 52.46          | 0.00          | 3922.09                         |
| MW - 12     | 03/20/06      | 3974.55                 | -                | 52.39          | 0.00          | 3922.16                         |
| MW - 12     | 06/21/06      | 3974.55                 | -                | 52.36          | 0.00          | 3922.19                         |
| MW - 12     | 09/27/06      | 3974.55                 | -                | 52.44          | 0.00          | 3922.11                         |
| MW - 12     | 12/04/06      | 3974.55                 | -                | 52.33          | 0.00          | 3922.22                         |
| MW - 12     | 03/14/07      | 3974.55                 | -                | 52.28          | 0.00          | 3922.27                         |
| MW - 12     | 05/29/07      | 3974.55                 | -                | 52.26          | 0.00          | 3922.29                         |
| MW - 12     | 08/30/07      | 3974.55                 | -                | 52.23          | 0.00          | 3922.32                         |
| MW - 12     | 11/12/07      | 3974.55                 | -                | 52.20          | 0.00          | 3922.35                         |
| MW - 12     | 03/07/08      | 3974.55                 | -                | 52.12          | 0.00          | 3922.43                         |
| MW - 12     | 06/02/08      | 3974.55                 | -                | 52.05          | 0.00          | 3922.50                         |
| MW - 12     | 09/03/08      | 3974.55                 | -                | 52.07          | 0.00          | 3922.48                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 12        | 12/08/08         | 3974.55                       | -                   | 52.05             | 0.00             | 3922.50                               |
| MW - 12        | 02/19/09         | 3974.55                       | -                   | 52.02             | 0.00             | 3922.53                               |
| MW - 12        | 05/20/09         | 3974.55                       | -                   | 51.99             | 0.00             | 3922.56                               |
| MW - 12        | 08/12/09         | 3974.55                       | -                   | 51.97             | 0.00             | 3922.58                               |
| MW - 12        | 11/25/09         | 3974.55                       | -                   | 51.98             | 0.00             | 3922.57                               |
| MW - 12        | 01/07/10         | 3974.55                       | -                   | 51.95             | 0.00             | 3922.60                               |
| MW - 12        | 02/11/10         | 3974.55                       | -                   | 51.95             | 0.00             | 3922.60                               |
| MW - 12        | 05/17/10         | 3974.55                       | -                   | 52.13             | 0.00             | 3922.42                               |
| MW - 12        | 08/16/10         | 3974.55                       | -                   | 52.13             | 0.00             | 3922.42                               |
| MW - 12        | 11/10/10         | 3974.55                       | -                   | 52.13             | 0.00             | 3922.42                               |
| MW - 12        | 02/28/11         | 3974.55                       | -                   | 52.12             | 0.00             | 3922.43                               |
| MW - 12        | 05/12/11         | 3974.55                       | -                   | 51.92             | 0.00             | 3922.63                               |
| MW - 12        | 08/15/11         | 3974.55                       | -                   | 52.08             | 0.00             | 3922.47                               |
| MW - 12        | 11/22/11         | 3974.55                       | -                   | 51.97             | 0.00             | 3922.58                               |
| MW - 12        | 02/28/12         | 3974.55                       | -                   | 51.97             | 0.00             | 3922.58                               |
| MW - 12        | 05/17/12         | 3974.55                       | -                   | 51.95             | 0.00             | 3922.60                               |
| MW - 12        | 08/01/12         | 3974.55                       | -                   | 52.06             | 0.00             | 3922.49                               |
| MW - 12        | 10/25/12         | 3974.55                       | -                   | 52.12             | 0.00             | 3922.43                               |
| MW - 12        | 11/29/12         | 3974.55                       | -                   | 52.19             | 0.00             | 3922.36                               |
| MW - 12        | 02/11/13         | 3974.55                       | -                   | 52.08             | 0.00             | 3922.47                               |
| MW - 12        | 04/11/13         | 3974.55                       | -                   | 52.30             | 0.00             | 3922.25                               |
| MW - 12        | 05/06/13         | 3974.55                       | -                   | 52.13             | 0.00             | 3922.42                               |
| MW - 12        | 05/29/13         | 3974.55                       | -                   | 52.26             | 0.00             | 3922.29                               |
| MW - 12        | 06/26/13         | 3974.55                       | -                   | 52.31             | 0.00             | 3922.24                               |
| MW - 12        | 07/31/13         | 3974.55                       | -                   | 52.21             | 0.00             | 3922.34                               |
| MW - 12        | 08/06/13         | 3974.55                       | -                   | 52.21             | 0.00             | 3922.34                               |
| MW - 12        | 09/30/13         | 3974.55                       | -                   | 52.25             | 0.00             | 3922.30                               |
| MW - 12        | 11/18/13         | 3974.55                       | -                   | 52.27             | 0.00             | 3922.28                               |
| MW - 12        | 12/08/13         | 3974.55                       | -                   | 52.28             | 0.00             | 3922.27                               |
| MW - 12        | 02/04/14         | 3974.55                       | -                   | 52.26             | 0.00             | 3922.29                               |
| MW - 12        | 04/28/14         | 3974.55                       | -                   | 52.26             | 0.00             | 3922.29                               |
| MW - 12        | 05/28/14         | 3974.55                       | -                   | 52.32             | 0.00             | 3922.23                               |
| MW - 12        | 07/30/14         | 3974.55                       | -                   | 52.35             | 0.00             | 3922.20                               |
| MW - 12        | 08/23/14         | 3974.55                       | -                   | 52.38             | 0.00             | 3922.17                               |
| MW - 12        | 10/31/14         | 3974.55                       | -                   | 52.39             | 0.00             | 3922.16                               |
| MW - 12        | 11/18/14         | 3974.55                       | -                   | 52.38             | 0.00             | 3922.17                               |
| MW - 12        | 01/09/15         | 3974.55                       | -                   | 52.34             | 0.00             | 3922.21                               |
| MW - 12        | 02/19/15         | 3974.55                       | -                   | 52.34             | 0.00             | 3922.21                               |
| MW - 12        | 03/31/15         | 3974.55                       | -                   | 52.35             | 0.00             | 3922.20                               |
| MW - 12        | 04/09/15         | 3974.55                       | -                   | 52.28             | 0.00             | 3922.27                               |
| MW - 12        | 05/12/15         | 3974.55                       | -                   | 52.29             | 0.00             | 3922.26                               |
| MW - 12        | 07/27/15         | 3974.55                       | -                   | 52.36             | 0.00             | 3922.19                               |
| MW - 12        | 08/18/15         | 3974.55                       | -                   | 52.33             | 0.00             | 3922.22                               |
| MW - 12        | 10/08/15         | 3974.55                       | -                   | 52.42             | 0.00             | 3922.13                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 12        | 11/23/15         | 3974.55                       | -                   | 52.35             | 0.00             | 3922.20                               |
|                |                  |                               |                     |                   |                  |                                       |
| MW - 13        | 03/02/00         | 3975.00                       | -                   | 53.77             | 0.00             | 3921.23                               |
| MW - 13        | 04/25/00         | 3975.00                       | -                   | 53.85             | 0.00             | 3921.15                               |
| MW - 13        | 09/06/00         | 3975.00                       | -                   | 53.90             | 0.00             | 3921.10                               |
| MW - 13        | 11/28/00         | 3975.00                       | -                   | 53.91             | 0.00             | 3921.09                               |
| MW - 13        | 02/21/01         | 3975.00                       | -                   | 53.80             | 0.00             | 3921.20                               |
| MW - 13        | 05/31/01         | 3975.00                       | -                   | 53.72             | 0.00             | 3921.28                               |
| MW - 13        | 08/23/01         | 3975.00                       | -                   | 53.76             | 0.00             | 3921.24                               |
| MW - 13        | 11/21/01         | 3975.00                       | -                   | 53.83             | 0.00             | 3921.17                               |
| MW - 13        | 02/13/02         | 3975.00                       | -                   | 53.86             | 0.00             | 3921.14                               |
| MW - 13        | 06/12/02         | 3975.00                       | -                   | 53.81             | 0.00             | 3921.19                               |
| MW - 13        | 08/26/02         | 3975.00                       | -                   | 53.82             | 0.00             | 3921.18                               |
| MW - 13        | 11/21/02         | 3975.00                       | -                   | 53.89             | 0.00             | 3921.11                               |
| MW - 13        | 02/05/03         | 3975.00                       | -                   | 53.85             | 0.00             | 3921.15                               |
| MW - 13        | 05/07/03         | 3975.00                       | -                   | 53.78             | 0.00             | 3921.22                               |
| MW - 13        | 08/18/03         | 3975.00                       | -                   | 53.88             | 0.00             | 3921.12                               |
| MW - 13        | 12/01/03         | 3975.00                       | -                   | 53.91             | 0.00             | 3921.09                               |
| MW - 13        | 02/05/04         | 3975.00                       | -                   | 53.90             | 0.00             | 3921.10                               |
| MW - 13        | 05/05/04         | 3975.00                       | -                   | 53.90             | 0.00             | 3921.10                               |
| MW - 13        | 09/01/04         | 3975.00                       | -                   | 53.93             | 0.00             | 3921.07                               |
| MW - 13        | 12/15/04         | 3975.00                       | -                   | 53.88             | 0.00             | 3921.12                               |
| MW - 13        | 03/22/05         | 3975.00                       | -                   | 53.64             | 0.00             | 3921.36                               |
| MW - 13        | 06/22/05         | 3975.00                       | -                   | 53.58             | 0.00             | 3921.42                               |
| MW - 13        | 09/21/05         | 3975.00                       | -                   | 53.51             | 0.00             | 3921.49                               |
| MW - 13        | 12/16/05         | 3975.00                       | -                   | 53.44             | 0.00             | 3921.56                               |
| MW - 13        | 03/20/06         | 3975.00                       | -                   | 53.43             | 0.00             | 3921.57                               |
| MW - 13        | 06/21/06         | 3975.00                       | -                   | 53.38             | 0.00             | 3921.62                               |
| MW - 13        | 09/27/06         | 3975.00                       | -                   | 53.33             | 0.00             | 3921.67                               |
| MW - 13        | 12/04/06         | 3975.00                       | -                   | 53.33             | 0.00             | 3921.67                               |
| MW - 13        | 02/09/07         | 3975.00                       | -                   | 52.32             | 0.00             | 3922.68                               |
| MW - 13        | 02/23/07         | 3975.00                       | -                   | 53.27             | 0.00             | 3921.73                               |
| MW - 13        | 03/14/07         | 3975.00                       | -                   | 53.28             | 0.00             | 3921.72                               |
| MW - 13        | 05/29/07         | 3975.00                       | -                   | 53.26             | 0.00             | 3921.74                               |
| MW - 13        | 08/30/07         | 3975.00                       | -                   | 53.22             | 0.00             | 3921.78                               |
| MW - 13        | 11/12/07         | 3975.00                       | -                   | 53.19             | 0.00             | 3921.81                               |
| MW - 13        | 03/07/08         | 3975.00                       | -                   | 53.13             | 0.00             | 3921.87                               |
| MW - 13        | 06/02/08         | 3975.00                       | -                   | 53.07             | 0.00             | 3921.93                               |
| MW - 13        | 09/03/08         | 3975.00                       | -                   | 53.07             | 0.00             | 3921.93                               |
| MW - 13        | 12/08/08         | 3975.00                       | -                   | 53.05             | 0.00             | 3921.95                               |
| MW - 13        | 02/19/09         | 3975.00                       | -                   | 53.02             | 0.00             | 3921.98                               |
| MW - 13        | 05/20/09         | 3975.00                       | -                   | 52.99             | 0.00             | 3922.01                               |
| MW - 13        | 08/12/09         | 3975.00                       | -                   | 52.99             | 0.00             | 3922.01                               |
| MW - 13        | 11/04/09         | 3975.00                       | -                   | 52.94             | 0.00             | 3922.06                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 13     | 11/11/09      | 3975.00                 | -                | 52.94          | 0.00          | 3922.06                         |
| MW - 13     | 11/18/09      | 3975.00                 | -                | 52.95          | 0.00          | 3922.05                         |
| MW - 13     | 11/25/09      | 3975.00                 | -                | 52.97          | 0.00          | 3922.03                         |
| MW - 13     | 12/02/09      | 3975.00                 | -                | 52.95          | 0.00          | 3922.05                         |
| MW - 13     | 01/07/10      | 3975.00                 | -                | 52.94          | 0.00          | 3922.06                         |
| MW - 13     | 02/02/10      | 3975.00                 | -                | 52.90          | 0.00          | 3922.10                         |
| MW - 13     | 02/11/10      | 3975.00                 | -                | 52.92          | 0.00          | 3922.08                         |
| MW - 13     | 05/17/10      | 3975.00                 | -                | 53.06          | 0.00          | 3921.94                         |
| MW - 13     | 08/16/10      | 3975.00                 | -                | 53.06          | 0.00          | 3921.94                         |
| MW - 13     | 11/10/10      | 3975.00                 | -                | 53.09          | 0.00          | 3921.91                         |
| MW - 13     | 02/28/11      | 3975.00                 | -                | 53.07          | 0.00          | 3921.93                         |
| MW - 13     | 03/04/11      | 3975.00                 | -                | 52.92          | 0.00          | 3922.08                         |
| MW - 13     | 04/28/11      | 3975.00                 | -                | 52.92          | 0.00          | 3922.08                         |
| MW - 13     | 05/04/11      | 3975.00                 | -                | 52.91          | 0.00          | 3922.09                         |
| MW - 13     | 05/11/11      | 3975.00                 | -                | 52.91          | 0.00          | 3922.09                         |
| MW - 13     | 05/12/11      | 3975.00                 | -                | 52.92          | 0.00          | 3922.08                         |
| MW - 13     | 05/18/11      | 3975.00                 | -                | 52.92          | 0.00          | 3922.08                         |
| MW - 13     | 05/23/11      | 3975.00                 | -                | 52.93          | 0.00          | 3922.07                         |
| MW - 13     | 06/08/11      | 3975.00                 | -                | 52.93          | 0.00          | 3922.07                         |
| MW - 13     | 06/16/11      | 3975.00                 | -                | 52.93          | 0.00          | 3922.07                         |
| MW - 13     | 06/22/11      | 3975.00                 | -                | 52.94          | 0.00          | 3922.06                         |
| MW - 13     | 06/30/11      | 3975.00                 | -                | 52.94          | 0.00          | 3922.06                         |
| MW - 13     | 07/06/11      | 3975.00                 | -                | 52.94          | 0.00          | 3922.06                         |
| MW - 13     | 07/13/11      | 3975.00                 | -                | 52.95          | 0.00          | 3922.05                         |
| MW - 13     | 07/15/11      | 3975.00                 | -                | 52.95          | 0.00          | 3922.05                         |
| MW - 13     | 07/19/11      | 3975.00                 | -                | 52.95          | 0.00          | 3922.05                         |
| MW - 13     | 07/21/11      | 3975.00                 | -                | 52.94          | 0.00          | 3922.06                         |
| MW - 13     | 07/25/11      | 3975.00                 | -                | 52.95          | 0.00          | 3922.05                         |
| MW - 13     | 07/28/11      | 3975.00                 | -                | 52.96          | 0.00          | 3922.04                         |
| MW - 13     | 08/02/11      | 3975.00                 | -                | 52.96          | 0.00          | 3922.04                         |
| MW - 13     | 08/09/11      | 3975.00                 | -                | 52.95          | 0.00          | 3922.05                         |
| MW - 13     | 08/12/11      | 3975.00                 | -                | 52.96          | 0.00          | 3922.04                         |
| MW - 13     | 08/15/11      | 3975.00                 | -                | 53.00          | 0.00          | 3922.00                         |
| MW - 13     | 08/16/11      | 3975.00                 | -                | 52.97          | 0.00          | 3922.03                         |
| MW - 13     | 08/19/11      | 3975.00                 | -                | 52.97          | 0.00          | 3922.03                         |
| MW - 13     | 08/23/11      | 3975.00                 | -                | 52.98          | 0.00          | 3922.02                         |
| MW - 13     | 09/01/11      | 3975.00                 | -                | 52.97          | 0.00          | 3922.03                         |
| MW - 13     | 09/15/11      | 3975.00                 | -                | 52.98          | 0.00          | 3922.02                         |
| MW - 13     | 09/22/11      | 3975.00                 | -                | 52.96          | 0.00          | 3922.04                         |
| MW - 13     | 10/11/11      | 3975.00                 | -                | 52.99          | 0.00          | 3922.01                         |
| MW - 13     | 10/13/11      | 3975.00                 | -                | 53.03          | 0.00          | 3921.97                         |
| MW - 13     | 11/22/11      | 3975.00                 | -                | 52.96          | 0.00          | 3922.04                         |
| MW - 13     | 12/29/11      | 3975.00                 | -                | 52.96          | 0.00          | 3922.04                         |
| MW - 13     | 01/26/12      | 3975.00                 | -                | 52.97          | 0.00          | 3922.03                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 13        | 01/31/12         | 3975.00                       | -                   | 52.99             | 0.00             | 3922.01                               |
| MW - 13        | 02/15/12         | 3975.00                       | -                   | 52.95             | 0.00             | 3922.05                               |
| MW - 13        | 02/28/12         | 3975.00                       | -                   | 52.95             | 0.00             | 3922.05                               |
| MW - 13        | 03/20/12         | 3975.00                       | -                   | 53.03             | 0.00             | 3921.97                               |
| MW - 13        | 03/27/12         | 3975.00                       | -                   | 54.96             | 0.00             | 3920.04                               |
| MW - 13        | 04/10/12         | 3975.00                       | -                   | 52.98             | 0.00             | 3922.02                               |
| MW - 13        | 04/19/12         | 3975.00                       | -                   | 52.98             | 0.00             | 3922.02                               |
| MW - 13        | 04/26/12         | 3975.00                       | -                   | 52.96             | 0.00             | 3922.04                               |
| MW - 13        | 05/08/12         | 3975.00                       | -                   | 52.97             | 0.00             | 3922.03                               |
| MW - 13        | 05/15/12         | 3975.00                       | -                   | 52.94             | 0.00             | 3922.06                               |
| MW - 13        | 05/17/12         | 3975.00                       | -                   | 52.93             | 0.00             | 3922.07                               |
| MW - 13        | 06/05/12         | 3975.00                       | -                   | 53.00             | 0.00             | 3922.00                               |
| MW - 13        | 06/21/12         | 3975.00                       | -                   | 52.64             | 0.00             | 3922.36                               |
| MW - 13        | 06/28/12         | 3975.00                       | -                   | 52.70             | 0.00             | 3922.30                               |
| MW - 13        | 07/17/12         | 3975.00                       | -                   | 53.01             | 0.00             | 3921.99                               |
| MW - 13        | 08/01/12         | 3975.00                       | -                   | 53.04             | 0.00             | 3921.96                               |
| MW - 13        | 10/02/12         | 3975.00                       | -                   | 53.31             | 0.00             | 3921.69                               |
| MW - 13        | 10/09/12         | 3975.00                       | -                   | 53.19             | 0.00             | 3921.81                               |
| MW - 13        | 10/16/12         | 3975.00                       | -                   | 53.13             | 0.00             | 3921.87                               |
| MW - 13        | 10/25/12         | 3975.00                       | -                   | 53.14             | 0.00             | 3921.86                               |
| MW - 13        | 10/30/12         | 3975.00                       | -                   | 53.11             | 0.00             | 3921.89                               |
| MW - 13        | 11/29/12         | 3975.00                       | -                   | 53.14             | 0.00             | 3921.86                               |
| MW - 13        | 12/14/12         | 3975.00                       | -                   | 53.16             | 0.00             | 3921.84                               |
| MW - 13        | 02/11/13         | 3975.00                       | -                   | 53.09             | 0.00             | 3921.91                               |
| MW - 13        | 04/11/13         | 3975.00                       | -                   | 53.29             | 0.00             | 3921.71                               |
| MW - 13        | 04/15/13         | 3975.00                       | -                   | 53.20             | 0.00             | 3921.80                               |
| MW - 13        | 04/22/13         | 3975.00                       | -                   | 53.14             | 0.00             | 3921.86                               |
| MW - 13        | 05/06/13         | 3975.00                       | -                   | 53.14             | 0.00             | 3921.86                               |
| MW - 13        | 05/09/13         | 3975.00                       | -                   | 53.14             | 0.00             | 3921.86                               |
| MW - 13        | 05/20/13         | 3975.00                       | -                   | 53.14             | 0.00             | 3921.86                               |
| MW - 13        | 05/24/13         | 3975.00                       | -                   | 53.25             | 0.00             | 3921.75                               |
| MW - 13        | 05/29/13         | 3975.00                       | -                   | 53.26             | 0.00             | 3921.74                               |
| MW - 13        | 05/31/13         | 3975.00                       | -                   | 53.23             | 0.00             | 3921.77                               |
| MW - 13        | 06/07/13         | 3975.00                       | -                   | 53.31             | 0.00             | 3921.69                               |
| MW - 13        | 06/12/13         | 3975.00                       | -                   | 53.30             | 0.00             | 3921.70                               |
| MW - 13        | 06/14/13         | 3975.00                       | -                   | 53.25             | 0.00             | 3921.75                               |
| MW - 13        | 06/19/13         | 3975.00                       | -                   | 53.24             | 0.00             | 3921.76                               |
| MW - 13        | 06/21/13         | 3975.00                       | -                   | 53.28             | 0.00             | 3921.72                               |
| MW - 13        | 06/25/13         | 3975.00                       | -                   | 53.21             | 0.00             | 3921.79                               |
| MW - 13        | 06/26/13         | 3975.00                       | -                   | 53.26             | 0.00             | 3921.74                               |
| MW - 13        | 07/03/13         | 3975.00                       | -                   | 53.26             | 0.00             | 3921.74                               |
| MW - 13        | 07/09/13         | 3975.00                       | -                   | 53.25             | 0.00             | 3921.75                               |
| MW - 13        | 07/11/13         | 3975.00                       | -                   | 53.31             | 0.00             | 3921.69                               |
| MW - 13        | 07/24/13         | 3975.00                       | -                   | 53.22             | 0.00             | 3921.78                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 13        | 07/26/13         | 3975.00                       | -                   | 53.29             | 0.00             | 3921.71                               |
| MW - 13        | 07/31/13         | 3975.00                       | -                   | 53.25             | 0.00             | 3921.75                               |
| MW - 13        | 08/02/13         | 3975.00                       | -                   | 53.29             | 0.00             | 3921.71                               |
| MW - 13        | 08/06/13         | 3975.00                       | -                   | 53.22             | 0.00             | 3921.78                               |
| MW - 13        | 08/14/13         | 3975.00                       | -                   | 53.28             | 0.00             | 3921.72                               |
| MW - 13        | 08/21/13         | 3975.00                       | -                   | 53.32             | 0.00             | 3921.68                               |
| MW - 13        | 08/26/13         | 3975.00                       | -                   | 53.29             | 0.00             | 3921.71                               |
| MW - 13        | 09/06/13         | 3975.00                       | -                   | 53.30             | 0.00             | 3921.70                               |
| MW - 13        | 08/30/13         | 3975.00                       | -                   | 53.28             | 0.00             | 3921.72                               |
| MW - 13        | 09/13/13         | 3975.00                       | -                   | 53.23             | 0.00             | 3921.77                               |
| MW - 13        | 09/27/13         | 3975.00                       | -                   | 53.34             | 0.00             | 3921.66                               |
| MW - 13        | 09/30/13         | 3975.00                       | -                   | 53.35             | 0.00             | 3921.65                               |
| MW - 13        | 10/02/13         | 3975.00                       | -                   | 53.30             | 0.00             | 3921.70                               |
| MW - 13        | 10/03/13         | 3975.00                       | -                   | 53.28             | 0.00             | 3921.72                               |
| MW - 13        | 10/11/13         | 3975.00                       | -                   | 53.21             | 0.00             | 3921.79                               |
| MW - 13        | 10/17/13         | 3975.00                       | -                   | 53.22             | 0.00             | 3921.78                               |
| MW - 13        | 10/22/13         | 3975.00                       | -                   | 53.22             | 0.00             | 3921.78                               |
| MW - 13        | 10/24/13         | 3975.00                       | -                   | 53.37             | 0.00             | 3921.63                               |
| MW - 13        | 10/30/13         | 3975.00                       | -                   | 53.34             | 0.00             | 3921.66                               |
| MW - 13        | 11/01/13         | 3975.00                       | -                   | 53.25             | 0.00             | 3921.75                               |
| MW - 13        | 11/04/13         | 3975.00                       | -                   | 53.29             | 0.00             | 3921.71                               |
| MW - 13        | 11/08/13         | 3975.00                       | -                   | 53.32             | 0.00             | 3921.68                               |
| MW - 13        | 11/13/13         | 3975.00                       | -                   | 53.25             | 0.00             | 3921.75                               |
| MW - 13        | 11/15/13         | 3975.00                       | -                   | 53.25             | 0.00             | 3921.75                               |
| MW - 13        | 11/19/13         | 3975.00                       | -                   | 53.25             | 0.00             | 3921.75                               |
| MW - 13        | 12/12/13         | 3975.00                       | -                   | 53.31             | 0.00             | 3921.69                               |
| MW - 13        | 12/16/13         | 3975.00                       | -                   | 53.30             | 0.00             | 3921.70                               |
| MW - 13        | 12/18/13         | 3975.00                       | -                   | 53.30             | 0.00             | 3921.70                               |
| MW - 13        | 12/23/13         | 3975.00                       | -                   | 53.36             | 0.00             | 3921.64                               |
| MW - 13        | 12/30/13         | 3975.00                       | -                   | 53.33             | 0.00             | 3921.67                               |
| MW - 13        | 01/01/14         | 3975.00                       | -                   | 53.27             | 0.00             | 3921.73                               |
| MW - 13        | 01/06/14         | 3975.00                       | -                   | 53.26             | 0.00             | 3921.74                               |
| MW - 13        | 01/15/14         | 3975.00                       | -                   | 53.38             | 0.00             | 3921.62                               |
| MW - 13        | 01/17/14         | 3975.00                       | -                   | 53.26             | 0.00             | 3921.74                               |
| MW - 13        | 01/20/14         | 3975.00                       | -                   | 53.21             | 0.00             | 3921.79                               |
| MW - 13        | 01/22/14         | 3975.00                       | -                   | 52.87             | 0.00             | 3922.13                               |
| MW - 13        | 01/29/14         | 3975.00                       | -                   | 53.31             | 0.00             | 3921.69                               |
| MW - 13        | 02/04/14         | 3975.00                       | -                   | 53.28             | 0.00             | 3921.72                               |
| MW - 13        | 02/13/14         | 3975.00                       | -                   | 53.30             | 0.00             | 3921.70                               |
| MW - 13        | 02/21/14         | 3975.00                       | -                   | 53.37             | 0.00             | 3921.63                               |
| MW - 13        | 02/26/14         | 3975.00                       | -                   | 53.40             | 0.00             | 3921.60                               |
| MW - 13        | 03/12/14         | 3975.00                       | -                   | 53.40             | 0.00             | 3921.60                               |
| MW - 13        | 03/14/14         | 3975.00                       | -                   | 53.37             | 0.00             | 3921.63                               |
| MW - 13        | 03/17/14         | 3975.00                       | -                   | 53.37             | 0.00             | 3921.63                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 13     | 03/24/14      | 3975.00                 | -                | 53.33          | 0.00          | 3921.67                         |
| MW - 13     | 03/26/14      | 3975.00                 | -                | 53.34          | 0.00          | 3921.66                         |
| MW - 13     | 04/09/14      | 3975.00                 | -                | 53.24          | 0.00          | 3921.76                         |
| MW - 13     | 04/28/14      | 3975.00                 | -                | 53.24          | 0.00          | 3921.76                         |
| MW - 13     | 05/28/14      | 3975.00                 | -                | 53.34          | 0.00          | 3921.66                         |
| MW - 13     | 07/30/14      | 3975.00                 | -                | 53.36          | 0.00          | 3921.64                         |
| MW - 13     | 08/23/14      | 3975.00                 | -                | 53.40          | 0.00          | 3921.60                         |
| MW - 13     | 10/31/14      | 3975.00                 | -                | 53.40          | 0.00          | 3921.60                         |
| MW - 13     | 11/18/14      | 3975.00                 | -                | 53.38          | 0.00          | 3921.62                         |
| MW - 13     | 01/09/15      | 3975.00                 | -                | 53.35          | 0.00          | 3921.65                         |
| MW - 13     | 02/19/15      | 3975.00                 | -                | 53.34          | 0.00          | 3921.66                         |
| MW - 13     | 03/31/15      | 3975.00                 | -                | 53.35          | 0.00          | 3921.65                         |
| MW - 13     | 04/09/15      | 3975.00                 | -                | 53.29          | 0.00          | 3921.71                         |
| MW - 13     | 05/12/15      | 3975.00                 | -                | 53.30          | 0.00          | 3921.70                         |
| MW - 13     | 07/27/15      | 3975.00                 | -                | 53.37          | 0.00          | 3921.63                         |
| MW - 13     | 08/18/15      | 3975.00                 | -                | 53.35          | 0.00          | 3921.65                         |
| MW - 13     | 10/08/15      | 3975.00                 | -                | 53.43          | 0.00          | 3921.57                         |
| MW - 13     | 11/23/15      | 3975.00                 | -                | 53.34          | 0.00          | 3921.66                         |
|             |               |                         |                  |                |               |                                 |
| MW - 14     | 03/02/00      | 3976.15                 | -                | 54.49          | 0.00          | 3921.66                         |
| MW - 14     | 04/25/00      | 3976.15                 | -                | 54.55          | 0.00          | 3921.60                         |
| MW - 14     | 09/06/00      | 3976.15                 | -                | 54.61          | 0.00          | 3921.54                         |
| MW - 14     | 11/28/00      | 3976.15                 | -                | 54.61          | 0.00          | 3921.54                         |
| MW - 14     | 02/21/01      | 3976.15                 | -                | 54.44          | 0.00          | 3921.71                         |
| MW - 14     | 05/31/01      | 3976.15                 | -                | 54.45          | 0.00          | 3921.70                         |
| MW - 14     | 08/23/01      | 3976.15                 | -                | 54.47          | 0.00          | 3921.68                         |
| MW - 14     | 11/21/01      | 3976.15                 | -                | 54.50          | 0.00          | 3921.65                         |
| MW - 14     | 02/13/02      | 3976.15                 | -                | 54.55          | 0.00          | 3921.60                         |
| MW - 14     | 06/12/02      | 3976.15                 | -                | 54.52          | 0.00          | 3921.63                         |
| MW - 14     | 08/26/02      | 3976.15                 | -                | 54.53          | 0.00          | 3921.62                         |
| MW - 14     | 11/21/02      | 3976.15                 | -                | 54.57          | 0.00          | 3921.58                         |
| MW - 14     | 02/05/03      | 3976.15                 | -                | 54.52          | 0.00          | 3921.63                         |
| MW - 14     | 05/07/03      | 3976.15                 | -                | 54.51          | 0.00          | 3921.64                         |
| MW - 14     | 08/18/03      | 3976.15                 | -                | 54.57          | 0.00          | 3921.58                         |
| MW - 14     | 12/01/03      | 3976.15                 | -                | 54.61          | 0.00          | 3921.54                         |
| MW - 14     | 02/05/04      | 3976.15                 | -                | 54.60          | 0.00          | 3921.55                         |
| MW - 14     | 05/05/04      | 3976.15                 | -                | 54.58          | 0.00          | 3921.57                         |
| MW - 14     | 09/01/04      | 3976.15                 | -                | 54.65          | 0.00          | 3921.50                         |
| MW - 14     | 12/15/04      | 3976.15                 | -                | 54.60          | 0.00          | 3921.55                         |
| MW - 14     | 03/22/05      | 3976.15                 | -                | 54.40          | 0.00          | 3921.75                         |
| MW - 14     | 06/22/05      | 3976.15                 | -                | 54.29          | 0.00          | 3921.86                         |
| MW - 14     | 09/21/05      | 3976.15                 | -                | 54.21          | 0.00          | 3921.94                         |
| MW - 14     | 12/16/05      | 3976.15                 | -                | 54.14          | 0.00          | 3922.01                         |
| MW - 14     | 03/20/06      | 3976.15                 | -                | 54.11          | 0.00          | 3922.04                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 14     | 06/21/06      | 3976.15                 | -                | 54.06          | 0.00          | 3922.09                         |
| MW - 14     | 09/27/06      | 3976.15                 | -                | 54.04          | 0.00          | 3922.11                         |
| MW - 14     | 12/04/06      | 3976.15                 | -                | 54.02          | 0.00          | 3922.13                         |
| MW - 14     | 02/09/07      | 3976.15                 | -                | 54.01          | 0.00          | 3922.14                         |
| MW - 14     | 02/23/07      | 3976.15                 | -                | 53.96          | 0.00          | 3922.19                         |
| MW - 14     | 03/14/07      | 3976.15                 | -                | 53.99          | 0.00          | 3922.16                         |
| MW - 14     | 05/29/07      | 3976.15                 | -                | 53.94          | 0.00          | 3922.21                         |
| MW - 14     | 08/30/07      | 3976.15                 | -                | 53.92          | 0.00          | 3922.23                         |
| MW - 14     | 11/12/07      | 3976.15                 | -                | 53.87          | 0.00          | 3922.28                         |
| MW - 14     | 03/07/08      | 3976.15                 | -                | 53.81          | 0.00          | 3922.34                         |
| MW - 14     | 06/02/08      | 3976.15                 | -                | 53.75          | 0.00          | 3922.40                         |
| MW - 14     | 09/03/08      | 3976.15                 | -                | 53.75          | 0.00          | 3922.40                         |
| MW - 14     | 12/08/08      | 3976.15                 | -                | 53.70          | 0.00          | 3922.45                         |
| MW - 14     | 02/19/09      | 3976.15                 | -                | 53.71          | 0.00          | 3922.44                         |
| MW - 14     | 05/20/09      | 3976.15                 | -                | 53.69          | 0.00          | 3922.46                         |
| MW - 14     | 08/12/09      | 3976.15                 | -                | 53.69          | 0.00          | 3922.46                         |
| MW - 14     | 11/04/09      | 3976.15                 | -                | 53.66          | 0.00          | 3922.49                         |
| MW - 14     | 11/11/09      | 3976.15                 | -                | 53.66          | 0.00          | 3922.49                         |
| MW - 14     | 11/18/09      | 3976.15                 | -                | 53.65          | 0.00          | 3922.50                         |
| MW - 14     | 11/25/09      | 3976.15                 | -                | 53.65          | 0.00          | 3922.50                         |
| MW - 14     | 12/02/09      | 3976.15                 | -                | 52.02          | 0.00          | 3924.13                         |
| MW - 14     | 01/07/10      | 3976.15                 | -                | 53.64          | 0.00          | 3922.51                         |
| MW - 14     | 02/02/10      | 3976.15                 | -                | 53.63          | 0.00          | 3922.52                         |
| MW - 14     | 02/11/10      | 3976.15                 | -                | 53.63          | 0.00          | 3922.52                         |
| MW - 14     | 05/17/10      | 3976.15                 | -                | 53.72          | 0.00          | 3922.43                         |
| MW - 14     | 08/16/10      | 3976.15                 | -                | 53.71          | 0.00          | 3922.44                         |
| MW - 14     | 11/10/10      | 3976.15                 | -                | 53.70          | 0.00          | 3922.45                         |
| MW - 14     | 02/28/11      | 3976.15                 | -                | 53.71          | 0.00          | 3922.44                         |
| MW - 14     | 03/04/11      | 3976.15                 | -                | 53.56          | 0.00          | 3922.59                         |
| MW - 14     | 04/28/11      | 3976.15                 | -                | 53.63          | 0.00          | 3922.52                         |
| MW - 14     | 05/04/11      | 3976.15                 | -                | 52.38          | 0.00          | 3923.77                         |
| MW - 14     | 05/11/11      | 3976.15                 | -                | 53.59          | 0.00          | 3922.56                         |
| MW - 14     | 05/12/11      | 3976.15                 | -                | 53.58          | 0.00          | 3922.57                         |
| MW - 14     | 05/18/11      | 3976.15                 | -                | 53.57          | 0.00          | 3922.58                         |
| MW - 14     | 05/23/11      | 3976.15                 | -                | 53.62          | 0.00          | 3922.53                         |
| MW - 14     | 06/08/11      | 3976.15                 | -                | 53.45          | 0.00          | 3922.70                         |
| MW - 14     | 06/16/11      | 3976.15                 | -                | 53.53          | 0.00          | 3922.62                         |
| MW - 14     | 06/22/11      | 3976.15                 | -                | 53.52          | 0.00          | 3922.63                         |
| MW - 14     | 06/30/11      | 3976.15                 | -                | 53.71          | 0.00          | 3922.44                         |
| MW - 14     | 07/06/11      | 3976.15                 | -                | 53.60          | 0.00          | 3922.55                         |
| MW - 14     | 07/13/11      | 3976.15                 | -                | 53.66          | 0.00          | 3922.49                         |
| MW - 14     | 07/15/11      | 3976.15                 | -                | 53.67          | 0.00          | 3922.48                         |
| MW - 14     | 07/19/11      | 3976.15                 | -                | 53.62          | 0.00          | 3922.53                         |
| MW - 14     | 07/21/11      | 3976.15                 | -                | 53.58          | 0.00          | 3922.57                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 14     | 07/25/11      | 3976.15                 | -                | 53.57          | 0.00          | 3922.58                         |
| MW - 14     | 07/28/11      | 3976.15                 | -                | 53.62          | 0.00          | 3922.53                         |
| MW - 14     | 08/02/11      | 3976.15                 | -                | 53.70          | 0.00          | 3922.45                         |
| MW - 14     | 08/09/11      | 3976.15                 | -                | 53.66          | 0.00          | 3922.49                         |
| MW - 14     | 08/12/11      | 3976.15                 | -                | 53.67          | 0.00          | 3922.48                         |
| MW - 14     | 08/15/11      | 3976.15                 | -                | 53.67          | 0.00          | 3922.48                         |
| MW - 14     | 08/16/11      | 3976.15                 | -                | 53.66          | 0.00          | 3922.49                         |
| MW - 14     | 08/19/11      | 3976.15                 | -                | 53.69          | 0.00          | 3922.46                         |
| MW - 14     | 08/23/11      | 3976.15                 | -                | 53.71          | 0.00          | 3922.44                         |
| MW - 14     | 08/26/11      | 3976.15                 | -                | 53.72          | 0.00          | 3922.43                         |
| MW - 14     | 08/30/11      | 3976.15                 | -                | 53.63          | 0.00          | 3922.52                         |
| MW - 14     | 09/01/11      | 3976.15                 | -                | 53.68          | 0.00          | 3922.47                         |
| MW - 14     | 09/15/11      | 3976.15                 | -                | 53.68          | 0.00          | 3922.47                         |
| MW - 14     | 09/22/11      | 3976.15                 | -                | 53.61          | 0.00          | 3922.54                         |
| MW - 14     | 10/11/11      | 3976.15                 | -                | 53.72          | 0.00          | 3922.43                         |
| MW - 14     | 10/13/11      | 3976.15                 | -                | 53.76          | 0.00          | 3922.39                         |
| MW - 14     | 10/26/11      | 3976.15                 | -                | 53.70          | 0.00          | 3922.45                         |
| MW - 14     | 11/22/11      | 3976.15                 | -                | 53.66          | 0.00          | 3922.49                         |
| MW - 14     | 12/29/11      | 3976.15                 | -                | 53.63          | 0.00          | 3922.52                         |
| MW - 14     | 01/26/12      | 3976.15                 | -                | 53.64          | 0.00          | 3922.51                         |
| MW - 14     | 02/28/12      | 3976.15                 | -                | 53.62          | 0.00          | 3922.53                         |
| MW - 14     | 03/20/12      | 3976.15                 | -                | 53.68          | 0.00          | 3922.47                         |
| MW - 14     | 03/27/12      | 3976.15                 | -                | 53.65          | 0.00          | 3922.50                         |
| MW - 14     | 05/17/12      | 3976.15                 | -                | 53.64          | 0.00          | 3922.51                         |
| MW - 14     | 08/01/12      | 3976.15                 | -                | 53.75          | 0.00          | 3922.40                         |
| MW - 14     | 10/25/12      | 3976.15                 | -                | 53.80          | 0.00          | 3922.35                         |
| MW - 14     | 11/29/12      | 3976.15                 | -                | 53.81          | 0.00          | 3922.34                         |
| MW - 14     | 02/11/13      | 3976.15                 | -                | 53.73          | 0.00          | 3922.42                         |
| MW - 14     | 04/11/13      | 3976.15                 | -                | 53.96          | 0.00          | 3922.19                         |
| MW - 14     | 05/06/13      | 3976.15                 | -                | 53.82          | 0.00          | 3922.33                         |
| MW - 14     | 05/29/13      | 3976.15                 | -                | 53.93          | 0.00          | 3922.22                         |
| MW - 14     | 06/26/13      | 3976.15                 | -                | 53.86          | 0.00          | 3922.29                         |
| MW - 14     | 07/31/13      | 3976.15                 | -                | 53.79          | 0.00          | 3922.36                         |
| MW - 14     | 08/06/13      | 3976.15                 | -                | 53.82          | 0.00          | 3922.33                         |
| MW - 14     | 09/30/13      | 3976.15                 | -                | 53.90          | 0.00          | 3922.25                         |
| MW - 14     | 11/19/13      | 3976.15                 | -                | 53.96          | 0.00          | 3922.19                         |
| MW - 14     | 02/04/14      | 3976.15                 | -                | 53.95          | 0.00          | 3922.20                         |
| MW - 14     | 04/28/14      | 3976.15                 | -                | 53.94          | 0.00          | 3922.21                         |
| MW - 14     | 05/28/14      | 3976.15                 | -                | 53.96          | 0.00          | 3922.19                         |
| MW - 14     | 07/30/14      | 3976.15                 | -                | 54.00          | 0.00          | 3922.15                         |
| MW - 14     | 08/23/14      | 3976.15                 | -                | 54.06          | 0.00          | 3922.09                         |
| MW - 14     | 10/31/14      | 3976.15                 | -                | 54.04          | 0.00          | 3922.11                         |
| MW - 14     | 11/18/14      | 3976.15                 | -                | 54.05          | 0.00          | 3922.10                         |
| MW - 14     | 11/18/14      | 3976.15                 | -                | 52.46          | 0.00          | 3923.69                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 14     | 01/09/15      | 3976.15                 | -                | 54.02          | 0.00          | 3922.13                         |
| MW - 14     | 02/19/15      | 3976.15                 | -                | 54.02          | 0.00          | 3922.13                         |
| MW - 14     | 03/31/15      | 3976.15                 | -                | 54.02          | 0.00          | 3922.13                         |
| MW - 14     | 04/09/15      | 3976.15                 | -                | 53.96          | 0.00          | 3922.19                         |
| MW - 14     | 05/12/15      | 3976.15                 | -                | 53.98          | 0.00          | 3922.17                         |
| MW - 14     | 07/27/15      | 3976.15                 | -                | 54.04          | 0.00          | 3922.11                         |
| MW - 14     | 08/18/15      | 3976.15                 | -                | 53.92          | 0.00          | 3922.23                         |
| MW - 14     | 10/08/15      | 3976.15                 | -                | 54.05          | 0.00          | 3922.10                         |
| MW - 14     | 11/23/15      | 3976.15                 | -                | 54.01          | 0.00          | 3922.14                         |
|             |               |                         |                  |                |               |                                 |
| MW - 15     | 03/02/00      | 3974.69                 | -                | 53.31          | 0.00          | 3921.38                         |
| MW - 15     | 04/25/00      | 3974.69                 | -                | 53.39          | 0.00          | 3921.30                         |
| MW - 15     | 09/06/00      | 3974.69                 | -                | 53.45          | 0.00          | 3921.24                         |
| MW - 15     | 11/28/00      | 3974.69                 | -                | 53.45          | 0.00          | 3921.24                         |
| MW - 15     | 02/21/01      | 3974.69                 | -                | 53.35          | 0.00          | 3921.34                         |
| MW - 15     | 05/31/01      | 3974.69                 | -                | 53.25          | 0.00          | 3921.44                         |
| MW - 15     | 08/23/01      | 3974.69                 | -                | 53.32          | 0.00          | 3921.37                         |
| MW - 15     | 11/21/01      | 3974.69                 | -                | 53.46          | 0.00          | 3921.23                         |
| MW - 15     | 02/13/02      | 3974.69                 | -                | 53.39          | 0.00          | 3921.30                         |
| MW - 15     | 06/12/02      | 3974.69                 | -                | 53.36          | 0.00          | 3921.33                         |
| MW - 15     | 08/26/02      | 3974.69                 | -                | 53.45          | 0.00          | 3921.24                         |
| MW - 15     | 11/21/02      | 3974.69                 | -                | 53.42          | 0.00          | 3921.27                         |
| MW - 15     | 02/05/03      | 3974.69                 | -                | 53.40          | 0.00          | 3921.29                         |
| MW - 15     | 05/07/03      | 3974.69                 | -                | 53.35          | 0.00          | 3921.34                         |
| MW - 15     | 08/18/03      | 3974.69                 | -                | 53.41          | 0.00          | 3921.28                         |
| MW - 15     | 12/01/03      | 3974.69                 | -                | 53.45          | 0.00          | 3921.24                         |
| MW - 15     | 02/05/04      | 3974.69                 | -                | 53.45          | 0.00          | 3921.24                         |
| MW - 15     | 05/05/04      | 3974.69                 | -                | 53.42          | 0.00          | 3921.27                         |
| MW - 15     | 09/01/04      | 3974.69                 | -                | 53.47          | 0.00          | 3921.22                         |
| MW - 15     | 12/15/04      | 3974.69                 | -                | 53.40          | 0.00          | 3921.29                         |
| MW - 15     | 03/22/05      | 3974.69                 | -                | 53.19          | 0.00          | 3921.50                         |
| MW - 15     | 06/22/05      | 3974.69                 | -                | 53.14          | 0.00          | 3921.55                         |
| MW - 15     | 09/21/05      | 3974.69                 | -                | 53.05          | 0.00          | 3921.64                         |
| MW - 15     | 12/16/05      | 3974.69                 | -                | 52.99          | 0.00          | 3921.70                         |
| MW - 15     | 03/20/06      | 3974.69                 | -                | 52.96          | 0.00          | 3921.73                         |
| MW - 15     | 06/21/06      | 3974.69                 | -                | 52.91          | 0.00          | 3921.78                         |
| MW - 15     | 09/27/06      | 3974.69                 | -                | 52.88          | 0.00          | 3921.81                         |
| MW - 15     | 12/04/06      | 3974.69                 | -                | 52.88          | 0.00          | 3921.81                         |
| MW - 15     | 02/09/07      | 3974.69                 | -                | 52.87          | 0.00          | 3921.82                         |
| MW - 15     | 02/23/07      | 3974.69                 | -                | 52.80          | 0.00          | 3921.89                         |
| MW - 15     | 03/14/07      | 3974.69                 | -                | 52.81          | 0.00          | 3921.88                         |
| MW - 15     | 05/29/07      | 3974.69                 | -                | 52.79          | 0.00          | 3921.90                         |
| MW - 15     | 08/30/07      | 3974.69                 | -                | 52.77          | 0.00          | 3921.92                         |
| MW - 15     | 11/12/07      | 3974.69                 | -                | 52.73          | 0.00          | 3921.96                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 15        | 03/07/08         | 3974.69                       | -                   | 52.66             | 0.00             | 3922.03                               |
| MW - 15        | 06/02/08         | 3974.69                       | -                   | 52.60             | 0.00             | 3922.09                               |
| MW - 15        | 09/03/08         | 3974.69                       | -                   | 52.62             | 0.00             | 3922.07                               |
| MW - 15        | 12/08/08         | 3974.69                       | -                   | 52.62             | 0.00             | 3922.07                               |
| MW - 15        | 02/19/09         | 3974.69                       | -                   | 52.56             | 0.00             | 3922.13                               |
| MW - 15        | 05/20/09         | 3974.69                       | -                   | 52.53             | 0.00             | 3922.16                               |
| MW - 15        | 08/12/09         | 3974.69                       | -                   | 52.53             | 0.00             | 3922.16                               |
| MW - 15        | 11/04/09         | 3974.69                       | -                   | 52.47             | 0.00             | 3922.22                               |
| MW - 15        | 11/11/09         | 3974.69                       | -                   | 52.46             | 0.00             | 3922.23                               |
| MW - 15        | 11/18/09         | 3974.69                       | -                   | 52.50             | 0.00             | 3922.19                               |
| MW - 15        | 11/25/09         | 3974.69                       | -                   | 52.51             | 0.00             | 3922.18                               |
| MW - 15        | 12/02/09         | 3974.69                       | -                   | 52.49             | 0.00             | 3922.20                               |
| MW - 15        | 01/07/10         | 3974.69                       | -                   | 52.50             | 0.00             | 3922.19                               |
| MW - 15        | 02/02/10         | 3974.69                       | -                   | 52.47             | 0.00             | 3922.22                               |
| MW - 15        | 02/11/10         | 3974.69                       | -                   | 52.47             | 0.00             | 3922.22                               |
| MW - 15        | 05/17/10         | 3974.69                       | -                   | 52.59             | 0.00             | 3922.10                               |
| MW - 15        | 08/16/10         | 3974.69                       | -                   | 52.59             | 0.00             | 3922.10                               |
| MW - 15        | 11/10/10         | 3974.69                       | -                   | 52.58             | 0.00             | 3922.11                               |
| MW - 15        | 02/28/11         | 3974.69                       | -                   | 52.59             | 0.00             | 3922.10                               |
| MW - 15        | 03/04/11         | 3974.69                       | -                   | 52.43             | 0.00             | 3922.26                               |
| MW - 15        | 04/28/11         | 3974.69                       | -                   | 52.38             | 0.00             | 3922.31                               |
| MW - 15        | 05/04/11         | 3974.69                       | -                   | 52.37             | 0.00             | 3922.32                               |
| MW - 15        | 05/11/11         | 3974.69                       | -                   | 52.39             | 0.00             | 3922.30                               |
| MW - 15        | 05/12/11         | 3974.69                       | -                   | 52.48             | 0.00             | 3922.21                               |
| MW - 15        | 05/18/11         | 3974.69                       | -                   | 52.51             | 0.00             | 3922.18                               |
| MW - 15        | 05/23/11         | 3974.69                       | -                   | 52.30             | 0.00             | 3922.39                               |
| MW - 15        | 06/08/11         | 3974.69                       | -                   | 52.53             | 0.00             | 3922.16                               |
| MW - 15        | 06/16/11         | 3974.69                       | -                   | 52.46             | 0.00             | 3922.23                               |
| MW - 15        | 06/22/11         | 3974.69                       | -                   | 52.44             | 0.00             | 3922.25                               |
| MW - 15        | 06/30/11         | 3974.69                       | -                   | 52.49             | 0.00             | 3922.20                               |
| MW - 15        | 07/06/11         | 3974.69                       | -                   | 52.48             | 0.00             | 3922.21                               |
| MW - 15        | 07/13/11         | 3974.69                       | -                   | 52.49             | 0.00             | 3922.20                               |
| MW - 15        | 07/15/11         | 3974.69                       | -                   | 52.54             | 0.00             | 3922.15                               |
| MW - 15        | 07/19/11         | 3974.69                       | -                   | 52.50             | 0.00             | 3922.19                               |
| MW - 15        | 07/21/11         | 3974.69                       | -                   | 52.52             | 0.00             | 3922.17                               |
| MW - 15        | 07/26/11         | 3974.69                       | -                   | 52.50             | 0.00             | 3922.19                               |
| MW - 15        | 07/28/11         | 3974.69                       | -                   | 52.58             | 0.00             | 3922.11                               |
| MW - 15        | 08/02/11         | 3974.69                       | -                   | 52.63             | 0.00             | 3922.06                               |
| MW - 15        | 08/09/11         | 3974.69                       | -                   | 52.65             | 0.00             | 3922.04                               |
| MW - 15        | 08/12/11         | 3974.69                       | -                   | 52.70             | 0.00             | 3921.99                               |
| MW - 15        | 08/15/11         | 3974.69                       | -                   | 52.70             | 0.00             | 3921.99                               |
| MW - 15        | 08/16/11         | 3974.69                       | -                   | 52.69             | 0.00             | 3922.00                               |
| MW - 15        | 08/19/11         | 3974.69                       | -                   | 52.72             | 0.00             | 3921.97                               |
| MW - 15        | 08/23/11         | 3974.69                       | -                   | 52.74             | 0.00             | 3921.95                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 15     | 08/26/11      | 3974.69                 | -                | 52.76          | 0.00          | 3921.93                         |
| MW - 15     | 08/30/11      | 3974.69                 | -                | 52.50          | 0.00          | 3922.19                         |
| MW - 15     | 09/01/11      | 3974.69                 | -                | 52.53          | 0.00          | 3922.16                         |
| MW - 15     | 09/15/11      | 3974.69                 | -                | 52.58          | 0.00          | 3922.11                         |
| MW - 15     | 09/22/11      | 3974.69                 | -                | 52.52          | 0.00          | 3922.17                         |
| MW - 15     | 10/11/11      | 3974.69                 | -                | 52.13          | 0.00          | 3922.56                         |
| MW - 15     | 10/13/11      | 3974.69                 | -                | 52.64          | 0.00          | 3922.05                         |
| MW - 15     | 10/26/11      | 3974.69                 | -                | 52.59          | 0.00          | 3922.10                         |
| MW - 15     | 11/22/11      | 3974.69                 | -                | 52.54          | 0.00          | 3922.15                         |
| MW - 15     | 12/29/11      | 3974.69                 | -                | 52.46          | 0.00          | 3922.23                         |
| MW - 15     | 01/26/12      | 3974.69                 | -                | 52.55          | 0.00          | 3922.14                         |
| MW - 15     | 01/31/12      | 3974.69                 | -                | 52.56          | 0.00          | 3922.13                         |
| MW - 15     | 02/15/12      | 3974.69                 | -                | 52.50          | 0.00          | 3922.19                         |
| MW - 15     | 02/28/12      | 3974.69                 | -                | 52.51          | 0.00          | 3922.18                         |
| MW - 15     | 03/20/12      | 3974.69                 | -                | 52.57          | 0.00          | 3922.12                         |
| MW - 15     | 03/27/12      | 3974.69                 | -                | 52.54          | 0.00          | 3922.15                         |
| MW - 15     | 04/10/12      | 3974.69                 | -                | 52.54          | 0.00          | 3922.15                         |
| MW - 15     | 04/19/12      | 3974.69                 | -                | 52.55          | 0.00          | 3922.14                         |
| MW - 15     | 04/26/12      | 3974.69                 | -                | 52.49          | 0.00          | 3922.20                         |
| MW - 15     | 05/08/12      | 3974.69                 | -                | 52.50          | 0.00          | 3922.19                         |
| MW - 15     | 05/15/12      | 3974.69                 | -                | 52.51          | 0.00          | 3922.18                         |
| MW - 15     | 05/17/12      | 3974.69                 | -                | 52.49          | 0.00          | 3922.20                         |
| MW - 15     | 06/05/12      | 3974.69                 | -                | 52.53          | 0.00          | 3922.16                         |
| MW - 15     | 06/21/12      | 3974.69                 | -                | 53.09          | 0.00          | 3921.60                         |
| MW - 15     | 06/28/12      | 3974.69                 | -                | 53.16          | 0.00          | 3921.53                         |
| MW - 15     | 08/01/12      | 3974.69                 | -                | 52.60          | 0.00          | 3922.09                         |
| MW - 15     | 10/02/12      | 3974.69                 | -                | 52.70          | 0.00          | 3921.99                         |
| MW - 15     | 10/09/12      | 3974.69                 | -                | 52.75          | 0.00          | 3921.94                         |
| MW - 15     | 10/16/12      | 3974.69                 | -                | 52.67          | 0.00          | 3922.02                         |
| MW - 15     | 10/25/12      | 3974.69                 | -                | 52.67          | 0.00          | 3922.02                         |
| MW - 15     | 10/30/12      | 3974.69                 | -                | 52.68          | 0.00          | 3922.01                         |
| MW - 15     | 11/29/12      | 3974.69                 | -                | 52.73          | 0.00          | 3921.96                         |
| MW - 15     | 12/14/12      | 3974.69                 | -                | 52.71          | 0.00          | 3921.98                         |
| MW - 15     | 02/11/13      | 3974.69                 | -                | 52.65          | 0.00          | 3922.04                         |
| MW - 15     | 04/11/13      | 3974.69                 | -                | 52.91          | 0.00          | 3921.78                         |
| MW - 15     | 04/15/13      | 3974.69                 | -                | 52.91          | 0.00          | 3921.78                         |
| MW - 15     | 04/22/13      | 3974.69                 | -                | 52.66          | 0.00          | 3922.03                         |
| MW - 15     | 05/06/13      | 3974.69                 | -                | 52.66          | 0.00          | 3922.03                         |
| MW - 15     | 05/09/13      | 3974.69                 | -                | 52.68          | 0.00          | 3922.01                         |
| MW - 15     | 05/20/13      | 3974.69                 | -                | 52.69          | 0.00          | 3922.00                         |
| MW - 15     | 05/24/13      | 3974.69                 | -                | 52.83          | 0.00          | 3921.86                         |
| MW - 15     | 05/29/13      | 3974.69                 | -                | 52.92          | 0.00          | 3921.77                         |
| MW - 15     | 05/31/13      | 3974.69                 | -                | 52.82          | 0.00          | 3921.87                         |
| MW - 15     | 06/07/13      | 3974.69                 | -                | 52.93          | 0.00          | 3921.76                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| MW - 15        | 06/12/13         | 3974.69                       | -                   | 52.91             | 0.00             | 3921.78                               |
| MW - 15        | 06/14/13         | 3974.69                       | -                   | 52.86             | 0.00             | 3921.83                               |
| MW - 15        | 06/19/13         | 3974.69                       | -                   | 52.88             | 0.00             | 3921.81                               |
| MW - 15        | 06/21/13         | 3974.69                       | -                   | 52.94             | 0.00             | 3921.75                               |
| MW - 15        | 06/25/13         | 3974.69                       | -                   | 52.75             | 0.00             | 3921.94                               |
| MW - 15        | 06/26/13         | 3974.69                       | -                   | 52.88             | 0.00             | 3921.81                               |
| MW - 15        | 07/03/13         | 3974.69                       | -                   | 52.86             | 0.00             | 3921.83                               |
| MW - 15        | 07/09/13         | 3974.69                       | -                   | 52.87             | 0.00             | 3921.82                               |
| MW - 15        | 07/11/13         | 3974.69                       | -                   | 52.92             | 0.00             | 3921.77                               |
| MW - 15        | 07/24/13         | 3974.69                       | -                   | 52.84             | 0.00             | 3921.85                               |
| MW - 15        | 07/26/13         | 3974.69                       | -                   | 52.88             | 0.00             | 3921.81                               |
| MW - 15        | 07/31/13         | 3974.69                       | -                   | 52.83             | 0.00             | 3921.86                               |
| MW - 15        | 08/02/13         | 3974.69                       | -                   | 52.87             | 0.00             | 3921.82                               |
| MW - 15        | 08/06/13         | 3974.69                       | -                   | 52.78             | 0.00             | 3921.91                               |
| MW - 15        | 08/14/13         | 3974.69                       | -                   | 52.89             | 0.00             | 3921.80                               |
| MW - 15        | 08/21/13         | 3974.69                       | -                   | 52.91             | 0.00             | 3921.78                               |
| MW - 15        | 08/26/13         | 3974.69                       | -                   | 52.87             | 0.00             | 3921.82                               |
| MW - 15        | 09/06/13         | 3974.69                       | -                   | 52.87             | 0.00             | 3921.82                               |
| MW - 15        | 08/30/13         | 3974.69                       | -                   | 52.84             | 0.00             | 3921.85                               |
| MW - 15        | 09/13/13         | 3974.69                       | -                   | 52.80             | 0.00             | 3921.89                               |
| MW - 15        | 09/27/13         | 3974.69                       | -                   | 52.93             | 0.00             | 3921.76                               |
| MW - 15        | 09/30/13         | 3974.69                       | -                   | 52.91             | 0.00             | 3921.78                               |
| MW - 15        | 10/02/13         | 3974.69                       | -                   | 52.92             | 0.00             | 3921.77                               |
| MW - 15        | 10/03/13         | 3974.69                       | -                   | 52.88             | 0.00             | 3921.81                               |
| MW - 15        | 10/11/13         | 3974.69                       | -                   | 52.76             | 0.00             | 3921.93                               |
| MW - 15        | 10/17/13         | 3974.69                       | -                   | 52.79             | 0.00             | 3921.90                               |
| MW - 15        | 10/22/13         | 3974.69                       | -                   | 52.78             | 0.00             | 3921.91                               |
| MW - 15        | 10/24/13         | 3974.69                       | -                   | 52.96             | 0.00             | 3921.73                               |
| MW - 15        | 10/30/13         | 3974.69                       | -                   | 52.92             | 0.00             | 3921.77                               |
| MW - 15        | 11/01/13         | 3974.69                       | -                   | 52.85             | 0.00             | 3921.84                               |
| MW - 15        | 11/04/13         | 3974.69                       | -                   | 52.83             | 0.00             | 3921.86                               |
| MW - 15        | 11/08/13         | 3974.69                       | -                   | 52.95             | 0.00             | 3921.74                               |
| MW - 15        | 11/13/13         | 3974.69                       | -                   | 52.80             | 0.00             | 3921.89                               |
| MW - 15        | 11/15/13         | 3974.69                       | -                   | 52.81             | 0.00             | 3921.88                               |
| MW - 15        | 11/19/13         | 3974.69                       | -                   | 52.79             | 0.00             | 3921.90                               |
| MW - 15        | 12/08/13         | 3974.69                       | -                   | 52.79             | 0.00             | 3921.90                               |
| MW - 15        | 12/12/13         | 3974.69                       | -                   | 52.85             | 0.00             | 3921.84                               |
| MW - 15        | 12/16/13         | 3974.69                       | -                   | 52.83             | 0.00             | 3921.86                               |
| MW - 15        | 12/18/13         | 3974.69                       | -                   | 52.84             | 0.00             | 3921.85                               |
| MW - 15        | 12/23/13         | 3974.69                       | -                   | 52.94             | 0.00             | 3921.75                               |
| MW - 15        | 12/30/13         | 3974.69                       | -                   | 52.89             | 0.00             | 3921.80                               |
| MW - 15        | 01/01/14         | 3974.69                       | -                   | 52.85             | 0.00             | 3921.84                               |
| MW - 15        | 01/06/14         | 3974.69                       | -                   | 52.83             | 0.00             | 3921.86                               |
| MW - 15        | 01/15/14         | 3974.69                       | -                   | 52.98             | 0.00             | 3921.71                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 15     | 01/17/14      | 3974.69                 | -                | 52.82          | 0.00          | 3921.87                         |
| MW - 15     | 01/20/14      | 3974.69                 | -                | 52.80          | 0.00          | 3921.89                         |
| MW - 15     | 01/22/14      | 3974.69                 | -                | 53.36          | 0.00          | 3921.33                         |
| MW - 15     | 01/29/14      | 3974.69                 | -                | 52.84          | 0.00          | 3921.85                         |
| MW - 15     | 02/04/14      | 3974.69                 | -                | 52.81          | 0.00          | 3921.88                         |
| MW - 15     | 02/13/14      | 3974.69                 | -                | 52.83          | 0.00          | 3921.86                         |
| MW - 15     | 02/21/14      | 3974.69                 | -                | 52.98          | 0.00          | 3921.71                         |
| MW - 15     | 02/26/14      | 3974.69                 | -                | 53.00          | 0.00          | 3921.69                         |
| MW - 15     | 03/12/14      | 3974.69                 | -                | 52.98          | 0.00          | 3921.71                         |
| MW - 15     | 03/14/14      | 3974.69                 | -                | 52.95          | 0.00          | 3921.74                         |
| MW - 15     | 03/17/14      | 3974.69                 | -                | 52.94          | 0.00          | 3921.75                         |
| MW - 15     | 03/24/14      | 3974.69                 | -                | 52.92          | 0.00          | 3921.77                         |
| MW - 15     | 03/26/14      | 3974.69                 | -                | 52.91          | 0.00          | 3921.78                         |
| MW - 15     | 04/09/14      | 3974.69                 | -                | 52.79          | 0.00          | 3921.90                         |
| MW - 15     | 04/28/14      | 3974.69                 | -                | 52.80          | 0.00          | 3921.89                         |
| MW - 15     | 05/28/14      | 3974.69                 | -                | 52.92          | 0.00          | 3921.77                         |
| MW - 15     | 06/18/14      | 3974.69                 | -                | 52.83          | 0.00          | 3921.86                         |
| MW - 15     | 07/30/14      | 3974.69                 | -                | 52.89          | 0.00          | 3921.80                         |
| MW - 15     | 08/23/14      | 3974.69                 | -                | 52.93          | 0.00          | 3921.76                         |
| MW - 15     | 10/31/14      | 3974.69                 | -                | 52.94          | 0.00          | 3921.75                         |
| MW - 15     | 11/18/14      | 3974.69                 | -                | 52.91          | 0.00          | 3921.78                         |
| MW - 15     | 01/09/15      | 3974.69                 | -                | 52.87          | 0.00          | 3921.82                         |
| MW - 15     | 02/19/15      | 3974.69                 | -                | 52.90          | 0.00          | 3921.79                         |
| MW - 15     | 03/31/15      | 3974.69                 | -                | 52.93          | 0.00          | 3921.76                         |
| MW - 15     | 04/09/15      | 3974.69                 | -                | 52.80          | 0.00          | 3921.89                         |
| MW - 15     | 05/12/15      | 3974.69                 | -                | 52.84          | 0.00          | 3921.85                         |
| MW - 15     | 07/27/15      | 3974.69                 | -                | 52.95          | 0.00          | 3921.74                         |
| MW - 15     | 08/18/15      | 3974.69                 | -                | 52.88          | 0.00          | 3921.81                         |
| MW - 15     | 10/08/15      | 3974.69                 | -                | 53.03          | 0.00          | 3921.66                         |
| MW - 15     | 11/23/15      | 3974.69                 | -                | 52.91          | 0.00          | 3921.78                         |
|             |               |                         |                  |                |               |                                 |
| MW - 16     | 12/23/02      | 3975.12                 | -                | 53.44          | 0.00          | 3921.68                         |
| MW - 16     | 01/10/03      | 3975.12                 | -                | 53.45          | 0.00          | 3921.67                         |
| MW - 16     | 05/07/03      | 3975.12                 | -                | 53.38          | 0.00          | 3921.74                         |
| MW - 16     | 08/18/03      | 3975.12                 | -                | 53.44          | 0.00          | 3921.68                         |
| MW - 16     | 12/01/03      | 3975.12                 | -                | 53.48          | 0.00          | 3921.64                         |
| MW - 16     | 02/05/04      | 3975.12                 | -                | 53.48          | 0.00          | 3921.64                         |
| MW - 16     | 05/05/04      | 3975.12                 | -                | 53.41          | 0.00          | 3921.71                         |
| MW - 16     | 09/01/04      | 3975.12                 | -                | 53.52          | 0.00          | 3921.60                         |
| MW - 16     | 12/15/04      | 3975.12                 | -                | 53.48          | 0.00          | 3921.64                         |
| MW - 16     | 03/22/05      | 3975.12                 | -                | 53.26          | 0.00          | 3921.86                         |
| MW - 16     | 06/22/05      | 3975.12                 | -                | 53.15          | 0.00          | 3921.97                         |
| MW - 16     | 09/21/05      | 3975.12                 | -                | 53.08          | 0.00          | 3922.04                         |
| MW - 16     | 12/16/05      | 3975.12                 | -                | 53.02          | 0.00          | 3922.10                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 16     | 03/20/06      | 3975.12                 | -                | 52.97          | 0.00          | 3922.15                         |
| MW - 16     | 06/21/06      | 3975.12                 | -                | 52.94          | 0.00          | 3922.18                         |
| MW - 16     | 09/27/06      | 3975.12                 | -                | 52.90          | 0.00          | 3922.22                         |
| MW - 16     | 12/04/06      | 3975.12                 | -                | 52.88          | 0.00          | 3922.24                         |
| MW - 16     | 03/14/07      | 3975.12                 | -                | 52.84          | 0.00          | 3922.28                         |
| MW - 16     | 05/29/07      | 3975.12                 | -                | 52.80          | 0.00          | 3922.32                         |
| MW - 16     | 08/30/07      | 3975.12                 | -                | 52.78          | 0.00          | 3922.34                         |
| MW - 16     | 11/12/07      | 3975.12                 | -                | 52.73          | 0.00          | 3922.39                         |
| MW - 16     | 03/07/08      | 3975.12                 | -                | 52.66          | 0.00          | 3922.46                         |
| MW - 16     | 06/02/08      | 3975.12                 | -                | 52.62          | 0.00          | 3922.50                         |
| MW - 16     | 09/03/08      | 3975.12                 | -                | 52.63          | 0.00          | 3922.49                         |
| MW - 16     | 12/08/08      | 3975.12                 | -                | 52.57          | 0.00          | 3922.55                         |
| MW - 16     | 02/19/09      | 3975.12                 | -                | 52.58          | 0.00          | 3922.54                         |
| MW - 16     | 05/20/09      | 3975.12                 | -                | 52.54          | 0.00          | 3922.58                         |
| MW - 16     | 08/12/09      | 3975.12                 | -                | 52.55          | 0.00          | 3922.57                         |
| MW - 16     | 11/25/09      | 3975.12                 | -                | 52.51          | 0.00          | 3922.61                         |
| MW - 16     | 01/07/10      | 3975.12                 | -                | 52.51          | 0.00          | 3922.61                         |
| MW - 16     | 02/11/10      | 3975.12                 | -                | 52.48          | 0.00          | 3922.64                         |
| MW - 16     | 05/17/10      | 3975.12                 | -                | 52.60          | 0.00          | 3922.52                         |
| MW - 16     | 08/16/10      | 3975.12                 | -                | 52.61          | 0.00          | 3922.51                         |
| MW - 16     | 11/10/10      | 3975.12                 | -                | 52.61          | 0.00          | 3922.51                         |
| MW - 16     | 02/28/11      | 3975.12                 | -                | 52.60          | 0.00          | 3922.52                         |
| MW - 16     | 05/12/11      | 3975.12                 | -                | 52.29          | 0.00          | 3922.83                         |
| MW - 16     | 08/15/11      | 3975.12                 | -                | 52.56          | 0.00          | 3922.56                         |
| MW - 16     | 11/22/11      | 3975.12                 | -                | 52.40          | 0.00          | 3922.72                         |
| MW - 16     | 02/28/12      | 3975.12                 | -                | 52.41          | 0.00          | 3922.71                         |
| MW - 16     | 05/17/12      | 3975.12                 | -                | 52.50          | 0.00          | 3922.62                         |
| MW - 16     | 08/01/12      | 3975.12                 | -                | 52.61          | 0.00          | 3922.51                         |
| MW - 16     | 10/25/12      | 3975.12                 | -                | 52.64          | 0.00          | 3922.48                         |
| MW - 16     | 11/29/12      | 3975.12                 | -                | 52.41          | 0.00          | 3922.71                         |
| MW - 16     | 02/11/13      | 3975.12                 | -                | 52.59          | 0.00          | 3922.53                         |
| MW - 16     | 04/11/13      | 3975.12                 | -                | 52.19          | 0.00          | 3922.93                         |
| MW - 16     | 05/06/13      | 3975.12                 | -                | 52.67          | 0.00          | 3922.45                         |
| MW - 16     | 05/29/13      | 3975.12                 | -                | 52.42          | 0.00          | 3922.70                         |
| MW - 16     | 06/26/13      | 3975.12                 | -                | 52.19          | 0.00          | 3922.93                         |
| MW - 16     | 07/31/13      | 3975.12                 | -                | 52.32          | 0.00          | 3922.80                         |
| MW - 16     | 08/06/13      | 3975.12                 | -                | 52.42          | 0.00          | 3922.70                         |
| MW - 16     | 09/30/13      | 3975.12                 | -                | 52.49          | 0.00          | 3922.63                         |
| MW - 16     | 11/19/13      | 3975.12                 | -                | 52.81          | 0.00          | 3922.31                         |
| MW - 16     | 02/04/14      | 3975.12                 | -                | 52.81          | 0.00          | 3922.31                         |
| MW - 16     | 04/28/14      | 3975.12                 | -                | 52.81          | 0.00          | 3922.31                         |
| MW - 16     | 05/28/14      | 3975.12                 | -                | 52.66          | 0.00          | 3922.46                         |
| MW - 16     | 07/30/14      | 3975.12                 | -                | 52.80          | 0.00          | 3922.32                         |
| MW - 16     | 08/23/14      | 3975.12                 | -                | 52.90          | 0.00          | 3922.22                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 16     | 10/31/14      | 3975.12                 | -                | 52.86          | 0.00          | 3922.26                         |
| MW - 16     | 11/18/14      | 3975.12                 | -                | 52.90          | 0.00          | 3922.22                         |
| MW - 16     | 01/09/15      | 3975.12                 | -                | 52.88          | 0.00          | 3922.24                         |
| MW - 16     | 02/19/15      | 3975.12                 | -                | 52.84          | 0.00          | 3922.28                         |
| MW - 16     | 03/31/15      | 3975.12                 | -                | 52.72          | 0.00          | 3922.40                         |
| MW - 16     | 04/09/15      | 3975.12                 | -                | 52.80          | 0.00          | 3922.32                         |
| MW - 16     | 05/12/15      | 3975.12                 | -                | 52.86          | 0.00          | 3922.26                         |
| MW - 16     | 07/27/15      | 3975.12                 | -                | 52.72          | 0.00          | 3922.40                         |
| MW - 16     | 08/18/15      | 3975.12                 | -                | 52.60          | 0.00          | 3922.52                         |
| MW - 16     | 10/08/15      | 3975.12                 | -                | 52.69          | 0.00          | 3922.43                         |
| MW - 16     | 11/23/15      | 3975.12                 | -                | 52.81          | 0.00          | 3922.31                         |
|             |               |                         |                  |                |               |                                 |
| MW - 17     | 12/23/02      | 3975.93                 | -                | 54.41          | 0.00          | 3921.52                         |
| MW - 17     | 01/10/03      | 3975.93                 | -                | 54.35          | 0.00          | 3921.58                         |
| MW - 17     | 05/07/03      | 3975.93                 | -                | 54.35          | 0.00          | 3921.58                         |
| MW - 17     | 08/18/03      | 3975.93                 | -                | 54.36          | 0.00          | 3921.57                         |
| MW - 17     | 12/01/03      | 3975.93                 | -                | 54.47          | 0.00          | 3921.46                         |
| MW - 17     | 02/05/04      | 3975.93                 | -                | 54.44          | 0.00          | 3921.49                         |
| MW - 17     | 05/05/04      | 3975.93                 | -                | 54.42          | 0.00          | 3921.51                         |
| MW - 17     | 09/01/04      | 3975.93                 | -                | 54.50          | 0.00          | 3921.43                         |
| MW - 17     | 12/15/04      | 3975.93                 | -                | 54.44          | 0.00          | 3921.49                         |
| MW - 17     | 03/22/05      | 3975.93                 | -                | 54.23          | 0.00          | 3921.70                         |
| MW - 17     | 06/22/05      | 3975.93                 | -                | 54.13          | 0.00          | 3921.80                         |
| MW - 17     | 09/21/05      | 3975.93                 | -                | 54.56          | 0.00          | 3921.37                         |
| MW - 17     | 12/16/05      | 3975.93                 | -                | 54.00          | 0.00          | 3921.93                         |
| MW - 17     | 03/20/06      | 3975.93                 | -                | 53.94          | 0.00          | 3921.99                         |
| MW - 17     | 08/09/06      | PLUGGED & ABANDONED     |                  |                |               |                                 |
|             |               |                         |                  |                |               |                                 |
| MW - 18     | 05/20/09      | -                       | -                | 53.72          | 0.00          | -                               |
| MW - 18     | 08/12/09      | -                       | -                | 53.72          | 0.00          | -                               |
| MW - 18     | 11/25/09      | -                       | -                | 53.70          | 0.00          | -                               |
| MW - 18     | 01/07/10      | -                       | -                | 53.70          | 0.00          | -                               |
| MW - 18     | 02/11/10      | -                       | -                | 53.67          | 0.00          | -                               |
| MW - 18     | 05/17/10      | -                       | -                | 53.79          | 0.00          | -                               |
| MW - 18     | 08/16/10      | -                       | -                | 53.79          | 0.00          | -                               |
| MW - 18     | 11/10/10      | -                       | -                | 53.80          | 0.00          | -                               |
| MW - 18     | 02/28/11      | -                       | -                | 53.79          | 0.00          | -                               |
| MW - 18     | 05/12/11      | -                       | -                | 53.65          | 0.00          | -                               |
| MW - 18     | 08/15/11      | -                       | -                | 53.70          | 0.00          | -                               |
| MW - 18     | 11/22/11      | -                       | -                | 53.71          | 0.00          | -                               |
| MW - 18     | 02/28/12      | -                       | -                | 53.69          | 0.00          | -                               |
| MW - 18     | 05/17/12      | -                       | -                | 53.68          | 0.00          | -                               |
| MW - 18     | 08/01/12      | -                       | -                | 53.79          | 0.00          | -                               |
| MW - 18     | 10/25/12      | -                       | -                | 53.84          | 0.00          | -                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| MW - 18     | 11/29/12      | -                       | -                | 53.87          | 0.00          | -                               |
| MW - 18     | 02/11/13      | -                       | -                | 53.85          | 0.00          | -                               |
| MW - 18     | 04/11/13      | -                       | -                | 53.95          | 0.00          | -                               |
| MW - 18     | 05/06/13      | -                       | -                | 53.85          | 0.00          | -                               |
| MW - 18     | 05/29/13      | -                       | -                | 53.90          | 0.00          | -                               |
| MW - 18     | 06/26/13      | -                       | -                | 53.94          | 0.00          | -                               |
| MW - 18     | 07/31/13      | -                       | -                | 53.94          | 0.00          | -                               |
| MW - 18     | 08/06/13      | -                       | -                | 53.93          | 0.00          | -                               |
| MW - 18     | 09/30/13      | -                       | -                | 53.99          | 0.00          | -                               |
| MW - 18     | 11/19/13      | -                       | -                | 54.01          | 0.00          | -                               |
| MW - 18     | 02/04/14      | -                       | -                | 54.00          | 0.00          | -                               |
| MW - 18     | 04/28/14      | -                       | -                | 53.99          | 0.00          | -                               |
| MW - 18     | 05/28/14      | -                       | -                | 54.04          | 0.00          | -                               |
| MW - 18     | 07/30/14      | -                       | -                | 54.11          | 0.00          | -                               |
| MW - 18     | 08/23/14      | -                       | -                | 54.12          | 0.00          | -                               |
| MW - 18     | 10/31/14      | -                       | -                | 54.16          | 0.00          | -                               |
| MW - 18     | 11/18/14      | -                       | -                | 54.12          | 0.00          | -                               |
| MW - 18     | 01/09/15      | -                       | -                | 54.07          | 0.00          | -                               |
| MW - 18     | 02/19/15      | -                       | -                | 54.06          | 0.00          | -                               |
| MW - 18     | 03/31/15      | -                       | -                | 54.06          | 0.00          | -                               |
| MW - 18     | 04/09/15      | -                       | -                | 54.03          | 0.00          | -                               |
| MW - 18     | 05/12/15      | -                       | -                | 54.02          | 0.00          | -                               |
| MW - 18     | 07/27/15      | -                       | -                | 54.10          | 0.00          | -                               |
| MW - 18     | 08/18/15      | -                       | -                | 54.10          | 0.00          | -                               |
| MW - 18     | 10/08/15      | -                       | -                | 54.15          | 0.00          | -                               |
| MW - 18     | 11/23/15      | -                       | -                | 54.10          | 0.00          | -                               |
|             |               |                         |                  |                |               |                                 |
| RW - 1      | 11/08/02      | 3970.79                 | 48.44            | 51.55          | 3.11          | 3921.88                         |
| RW - 1      | 11/21/02      | 3970.79                 | 49.01            | 49.04          | 0.03          | 3921.78                         |
| RW - 1      | 12/27/02      | 3970.79                 | 48.48            | 51.37          | 2.89          | 3921.88                         |
| RW - 1      | 01/06/03      | 3970.79                 | 49.48            | 51.13          | 1.65          | 3921.06                         |
| RW - 1      | 01/08/03      | 3970.79                 | 48.46            | 51.20          | 2.74          | 3921.92                         |
| RW - 1      | 01/10/03      | 3970.79                 | 48.95            | 48.97          | 0.02          | 3921.84                         |
| RW - 1      | 01/13/03      | 3970.79                 | 48.65            | 50.36          | 1.71          | 3921.88                         |
| RW - 1      | 02/05/03      | 3970.79                 | 48.51            | 51.32          | 2.81          | 3921.86                         |
| RW - 1      | 02/26/03      | 3970.79                 | 48.41            | 51.34          | 2.93          | 3921.94                         |
| RW - 1      | 03/04/03      | 3970.79                 | 48.41            | 51.34          | 2.93          | 3921.94                         |
| RW - 1      | 03/12/03      | 3970.79                 | 48.44            | 51.41          | 2.97          | 3921.90                         |
| RW - 1      | 03/18/03      | 3970.79                 | 48.51            | 51.51          | 3.00          | 3921.83                         |
| RW - 1      | 03/25/03      | 3970.79                 | 48.85            | 49.04          | 0.19          | 3921.91                         |
| RW - 1      | 03/31/03      | 3970.79                 | 48.92            | 49.07          | 0.15          | 3921.85                         |
| RW - 1      | 04/09/03      | 3970.79                 | 48.97            | 49.00          | 0.03          | 3921.82                         |
| RW - 1      | 04/14/03      | 3970.79                 | sheen            | 48.99          | 0.00          | 3921.80                         |
| RW - 1      | 05/07/03      | 3970.79                 | 48.39            | 51.12          | 2.73          | 3921.99                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| RW - 1      | 05/08/03      | 3970.79                 | 48.46            | 51.21          | 2.75          | 3921.92                         |
| RW - 1      | 05/13/03      | 3970.79                 | 48.49            | 51.32          | 2.83          | 3921.88                         |
| RW - 1      | 05/21/03      | 3970.79                 | 48.57            | 51.36          | 2.79          | 3921.80                         |
| RW - 1      | 05/27/03      | 3970.79                 | 48.44            | 51.27          | 2.83          | 3921.93                         |
| RW - 1      | 05/28/03      | 3970.79                 | 48.54            | 51.45          | 2.91          | 3921.81                         |
| RW - 1      | 06/03/03      | 3970.79                 | 48.52            | 51.48          | 2.96          | 3921.83                         |
| RW - 1      | 06/09/03      | 3970.79                 | 48.46            | 51.40          | 2.94          | 3921.89                         |
| RW - 1      | 07/01/03      | 3970.79                 | 48.51            | 51.40          | 2.89          |                                 |
| RW - 1      | 07/08/03      | 3970.79                 | 48.53            | 49.37          | 0.84          | 3922.13                         |
| RW - 1      | 07/29/03      | 3970.79                 | 48.43            | 51.24          | 2.81          | 3921.94                         |
| RW - 1      | 08/04/03      | 3970.79                 | 48.71            | 51.60          | 2.89          | 3921.65                         |
| RW - 1      | 08/18/03      | 3970.79                 | 48.69            | 49.08          | 0.39          | 3922.04                         |
| RW - 1      | 08/25/03      | 3970.79                 | 48.69            | 51.65          | 2.96          | 3921.66                         |
| RW - 1      | 10/01/03      | 3970.79                 | 48.60            | 49.12          | 0.52          | 3922.11                         |
| RW - 1      | 10/06/03      | 3970.79                 | 48.97            | 49.04          | 0.07          | 3921.81                         |
| RW - 1      | 10/08/03      | 3970.79                 | 49.14            | 50.18          | 1.04          | 3921.49                         |
| RW - 1      | 10/15/03      | 3970.79                 | 49.15            | 49.75          | 0.60          | 3921.55                         |
| RW - 1      | 11/12/03      | 3970.79                 | 48.12            | 51.02          | 2.90          | 3922.24                         |
| RW - 1      | 11/19/03      | 3970.79                 | 58.42            | 51.34          | -7.08         | 3913.43                         |
| RW - 1      | 12/01/03      | 3970.79                 | 49.21            | 50.49          | 1.28          | 3921.39                         |
| RW - 1      | 12/10/03      | 3970.79                 | 48.68            | 50.92          | 2.24          | 3921.77                         |
| RW - 1      | 02/05/04      | 3970.79                 | 49.18            | 51.71          | 2.53          | 3921.23                         |
| RW - 1      | 02/17/04      | 3970.79                 | 48.71            | 51.51          | 2.80          | 3921.66                         |
| RW - 1      | 02/25/04      | 3970.79                 | 49.15            | 51.67          | 2.52          | 3921.26                         |
| RW - 1      | 03/09/04      | 3970.79                 | 48.60            | 49.32          | 0.72          | 3922.08                         |
| RW - 1      | 03/16/04      | 3970.79                 | 48.62            | 50.13          | 1.51          | 3921.94                         |
| RW - 1      | 03/22/04      | 3970.79                 | 48.79            | 51.92          | 3.13          | 3921.53                         |
| RW - 1      | 04/07/04      | 3970.79                 | 48.70            | 49.22          | 0.52          | 3922.01                         |
| RW - 1      | 04/12/04      | 3970.79                 | 48.68            | 51.04          | 2.36          | 3921.76                         |
| RW - 1      | 04/19/04      | 3970.79                 | 48.61            | 49.10          | 0.49          | 3922.11                         |
| RW - 1      | 05/05/04      | 3970.79                 | 48.70            | 51.51          | 2.81          | 3921.67                         |
| RW - 1      | 05/11/04      | 3970.79                 | 48.83            | 51.77          | 2.94          | 3921.52                         |
| RW - 1      | 06/07/04      | 3970.79                 | 48.43            | 51.31          | 2.88          | 3921.93                         |
| RW - 1      | 11/26/04      | 3970.79                 | 48.50            | 51.30          | 2.80          | 3921.87                         |
| RW - 1      | 12/02/04      | 3970.79                 | 48.53            | 51.22          | 2.69          | 3921.86                         |
| RW - 1      | 12/06/04      | 3970.79                 | 48.72            | 51.03          | 2.31          | 3921.72                         |
| RW - 1      | 12/13/04      | 3970.79                 | 48.96            | 51.10          | 2.14          | 3921.51                         |
| RW - 1      | 12/15/04      | 3970.79                 | 48.96            | 51.10          | 2.14          | 3921.51                         |
| RW - 1      | 12/27/04      | 3970.79                 | 48.46            | 51.20          | 2.74          | 3921.92                         |
| RW - 1      | 01/10/05      | 3970.79                 | 48.40            | 51.00          | 2.60          | 3922.00                         |
| RW - 1      | 01/18/05      | 3970.79                 | 48.55            | 51.05          | 2.50          | 3921.87                         |
| RW - 1      | 01/18/05      | 3970.79                 | 48.75            | 49.35          | 0.60          | 3921.95                         |
| RW - 1      | 01/25/05      | 3970.79                 | 48.44            | 50.55          | 2.11          | 3922.03                         |
| RW - 1      | 01/27/05      | 3970.79                 | 48.52            | 51.10          | 2.58          | 3921.88                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| RW - 1      | 02/01/05      | 3970.79                 | 48.50            | 50.25          | 1.75          | 3922.03                         |
| RW - 1      | 02/07/05      | 3970.79                 | 48.45            | 50.30          | 1.85          | 3922.06                         |
| RW - 1      | 02/11/05      | 3970.79                 | 48.47            | 50.27          | 1.80          | 3922.05                         |
| RW - 1      | 02/15/05      | 3970.79                 | 48.35            | 50.34          | 1.99          | 3922.14                         |
| RW - 1      | 02/22/05      | 3970.79                 | 48.30            | 50.79          | 2.49          | 3922.12                         |
| RW - 1      | 02/24/05      | 3970.79                 | 48.27            | 50.79          | 2.52          | 3922.14                         |
| RW - 1      | 03/03/05      | 3970.79                 | 48.52            | 50.85          | 2.33          | 3921.92                         |
| RW - 1      | 03/09/05      | 3970.79                 | 48.55            | 50.87          | 2.32          | 3921.89                         |
| RW - 1      | 03/22/05      | 3970.79                 | 48.25            | 50.95          | 2.70          | 3922.14                         |
| RW - 1      | 03/24/05      | 3970.79                 | 48.25            | 50.95          | 2.70          | 3922.14                         |
| RW - 1      | 03/31/05      | 3970.79                 | 48.28            | 50.91          | 2.63          | 3922.12                         |
| RW - 1      | 06/22/05      | 3970.79                 | 48.28            | 50.18          | 1.90          | 3922.23                         |
| RW - 1      | 07/21/05      | 3970.79                 | 48.15            | 50.82          | 2.67          | 3922.24                         |
| RW - 1      | 08/03/05      | 3970.79                 | 48.13            | 50.76          | 2.63          | 3922.27                         |
| RW - 1      | 08/12/05      | 3970.79                 | 48.13            | 50.78          | 2.65          | 3922.26                         |
| RW - 1      | 08/15/05      | 3970.79                 | 48.22            | 50.24          | 2.02          | 3922.27                         |
| RW - 1      | 08/22/05      | 3970.79                 | 48.13            | 50.51          | 2.38          | 3922.30                         |
| RW - 1      | 08/30/05      | 3970.79                 | 48.14            | 50.62          | 2.48          | 3922.28                         |
| RW - 1      | 09/07/05      | 3970.79                 | 48.14            | 50.55          | 2.41          | 3922.29                         |
| RW - 1      | 09/14/05      | 3970.79                 | 48.20            | 50.55          | 2.35          | 3922.24                         |
| RW - 1      | 09/20/05      | 3970.79                 | 48.16            | 50.40          | 2.24          | 3922.29                         |
| RW - 1      | 09/21/05      | 3970.79                 | 48.22            | 50.56          | 2.34          | 3922.22                         |
| RW - 1      | 09/28/05      | 3970.79                 | 48.12            | 50.55          | 2.43          | 3922.31                         |
| RW - 1      | 10/06/05      | 3970.79                 | 48.16            | 50.51          | 2.35          | 3922.28                         |
| RW - 1      | 10/13/05      | 3970.79                 | 48.15            | 50.49          | 2.34          | 3922.29                         |
| RW - 1      | 10/20/05      | 3970.79                 | 48.19            | 50.40          | 2.21          | 3922.27                         |
| RW - 1      | 10/26/05      | 3970.79                 | 48.18            | 50.35          | 2.17          | 3922.28                         |
| RW - 1      | 11/03/05      | 3970.79                 | 48.10            | 50.50          | 2.40          | 3922.33                         |
| RW - 1      | 11/10/05      | 3970.79                 | 48.11            | 50.54          | 2.43          | 3922.32                         |
| RW - 1      | 11/16/05      | 3970.79                 | 48.13            | 50.40          | 2.27          | 3922.32                         |
| RW - 1      | 11/23/05      | 3970.79                 | 48.17            | 50.37          | 2.20          | 3922.29                         |
| RW - 1      | 11/28/05      | 3970.79                 | 48.08            | 50.50          | 2.42          | 3922.35                         |
| RW - 1      | 12/05/05      | 3970.79                 | 48.19            | 50.30          | 2.11          | 3922.28                         |
| RW - 1      | 12/12/05      | 3970.79                 | 48.15            | 50.33          | 2.18          | 3922.31                         |
| RW - 1      | 12/16/05      | 3970.79                 | 48.84            | 49.98          | 1.14          | 3921.78                         |
| RW - 1      | 12/19/05      | 3970.79                 | 48.21            | 50.35          | 2.14          | 3922.26                         |
| RW - 1      | 12/29/05      | 3970.79                 | 48.12            | 50.41          | 2.29          | 3922.33                         |
| RW - 1      | 01/04/06      | 3970.79                 | 48.14            | 50.40          | 2.26          | 3922.31                         |
| RW - 1      | 01/10/06      | 3970.79                 | 48.10            | 50.53          | 2.43          | 3922.33                         |
| RW - 1      | 01/17/06      | 3970.79                 | 48.10            | 50.45          | 2.35          | 3922.34                         |
| RW - 1      | 01/26/06      | 3970.79                 | 48.10            | 50.45          | 2.35          | 3922.34                         |
| RW - 1      | 01/31/06      | 3970.79                 | 48.10            | 50.42          | 2.32          | 3922.34                         |
| RW - 1      | 02/07/06      | 3970.79                 | 48.11            | 50.34          | 2.23          | 3922.35                         |
| RW - 1      | 02/09/06      | 3970.79                 | 48.12            | 50.43          | 2.31          | 3922.32                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| RW - 1      | 02/13/06      | 3970.79                 | 48.12            | 50.45          | 2.33          | 3922.32                         |
| RW - 1      | 02/22/06      | 3970.79                 | 48.13            | 50.47          | 2.34          | 3922.31                         |
| RW - 1      | 02/28/06      | 3970.79                 | 48.11            | 50.46          | 2.35          | 3922.33                         |
| RW - 1      | 03/07/06      | 3970.79                 | 48.13            | 50.39          | 2.26          | 3922.32                         |
| RW - 1      | 03/15/06      | 3970.79                 | 48.09            | 50.36          | 2.27          | 3922.36                         |
| RW - 1      | 03/20/06      | 3970.79                 | 48.10            | 50.27          | 2.17          | 3922.36                         |
| RW - 1      | 03/22/06      | 3970.79                 | 48.14            | 50.43          | 2.29          | 3922.31                         |
| RW - 1      | 03/29/06      | 3970.79                 | 48.09            | 50.40          | 2.31          | 3922.35                         |
| RW - 1      | 04/11/06      | 3970.79                 | 47.96            | 50.37          | 2.41          | 3922.47                         |
| RW - 1      | 04/18/06      | 3970.79                 | 48.02            | 50.31          | 2.29          | 3922.43                         |
| RW - 1      | 04/25/06      | 3970.79                 | 48.05            | 50.29          | 2.24          | 3922.40                         |
| RW - 1      | 05/02/06      | 3970.79                 | 48.00            | 50.31          | 2.31          | 3922.44                         |
| RW - 1      | 05/09/06      | 3970.79                 | 48.03            | 50.21          | 2.18          | 3922.43                         |
| RW - 1      | 05/16/06      | 3970.79                 | 48.05            | 50.22          | 2.17          | 3922.41                         |
| RW - 1      | 05/23/06      | 3970.79                 | 48.03            | 50.20          | 2.17          | 3922.43                         |
| RW - 1      | 05/31/06      | 3970.79                 | 48.06            | 50.18          | 2.12          | 3922.41                         |
| RW - 1      | 06/06/06      | 3970.79                 | 48.10            | 50.09          | 1.99          | 3922.39                         |
| RW - 1      | 06/13/06      | 3970.79                 | 48.05            | 50.05          | 2.00          | 3922.44                         |
| RW - 1      | 06/20/06      | 3970.79                 | 48.10            | 50.10          | 2.00          | 3922.39                         |
| RW - 1      | 06/21/06      | 3970.79                 | 48.26            | 49.08          | 0.82          | 3922.41                         |
| RW - 1      | 07/06/06      | 3970.79                 | 48.09            | 50.18          | 2.09          | 3922.39                         |
| RW - 1      | 07/12/06      | 3970.79                 | 48.06            | 50.17          | 2.11          | 3922.41                         |
| RW - 1      | 07/20/06      | 3970.79                 | 49.89            | 50.16          | 0.27          | 3920.86                         |
| RW - 1      | 07/25/06      | 3970.79                 | 48.01            | 50.21          | 2.20          | 3922.45                         |
| RW - 1      | 08/01/06      | 3970.79                 | 48.01            | 50.23          | 2.22          | 3922.45                         |
| RW - 1      | 08/16/06      | 3970.79                 | 48.01            | 50.25          | 2.24          | 3922.44                         |
| RW - 1      | 08/23/06      | 3970.79                 | 48.06            | 50.11          | 2.05          | 3922.42                         |
| RW - 1      | 08/28/06      | 3970.79                 | 48.03            | 50.03          | 2.00          | 3922.46                         |
| RW - 1      | 09/12/06      | 3970.79                 | 48.09            | 49.80          | 1.71          | 3922.44                         |
| RW - 1      | 09/22/06      | 3970.79                 | 48.14            | 49.90          | 1.76          | 3922.39                         |
| RW - 1      | 09/27/06      | 3970.79                 | 48.20            | 49.60          | 1.40          | 3922.38                         |
| RW - 1      | 10/06/06      | 3970.79                 | 48.04            | 50.00          | 1.96          | 3922.46                         |
| RW - 1      | 10/10/06      | 3970.79                 | 48.20            | 49.34          | 1.14          | 3922.42                         |
| RW - 1      | 10/16/06      | 3970.79                 | 48.13            | 49.52          | 1.39          | 3922.45                         |
| RW - 1      | 10/26/06      | 3970.79                 | 48.05            | 49.83          | 1.78          | 3922.47                         |
| RW - 1      | 11/03/06      | 3970.79                 | 48.18            | 49.70          | 1.52          | 3922.38                         |
| RW - 1      | 11/09/06      | 3970.79                 | 48.10            | 49.60          | 1.50          | 3922.47                         |
| RW - 1      | 11/16/06      | 3970.79                 | 48.19            | 49.16          | 0.97          | 3922.45                         |
| RW - 1      | 11/22/06      | 3970.79                 | 48.20            | 49.56          | 1.36          | 3922.39                         |
| RW - 1      | 12/04/06      | 3970.79                 | 48.10            | 49.84          | 1.74          | 3922.43                         |
| RW - 1      | 12/08/06      | 3970.79                 | 48.08            | 49.99          | 1.91          | 3922.42                         |
| RW - 1      | 12/15/06      | 3970.79                 | 48.09            | 49.53          | 1.44          | 3922.48                         |
| RW - 1      | 01/05/07      | 3970.79                 | 48.05            | 50.10          | 2.05          | 3922.43                         |
| RW - 1      | 01/12/07      | 3970.79                 | 48.13            | 49.70          | 1.57          | 3922.42                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| RW - 1      | 01/18/07      | 3970.79                 | 48.11            | 49.51          | 1.40          | 3922.47                         |
| RW - 1      | 01/24/07      | 3970.79                 | 48.18            | 49.46          | 1.28          | 3922.42                         |
| RW - 1      | 01/29/07      | 3970.79                 | 48.21            | 49.33          | 1.12          | 3922.41                         |
| RW - 1      | 02/09/07      | 3970.79                 | 48.03            | 48.05          | 0.02          | 3922.76                         |
| RW - 1      | 02/16/07      | 3970.79                 | 48.10            | 49.77          | 1.67          | 3922.44                         |
| RW - 1      | 03/02/07      | 3970.79                 | 48.00            | 49.82          | 1.82          | 3922.52                         |
| RW - 1      | 03/14/07      | 3970.79                 | 48.11            | 49.20          | 1.09          | 3922.52                         |
| RW - 1      | 03/26/07      | 3970.79                 | 48.09            | 49.42          | 1.33          | 3922.50                         |
| RW - 1      | 04/03/07      | 3970.79                 | 47.99            | 49.80          | 1.81          | 3922.53                         |
| RW - 1      | 04/09/07      | 3970.79                 | 48.01            | 49.60          | 1.59          | 3922.54                         |
| RW - 1      | 04/26/07      | 3970.79                 | 47.96            | 49.87          | 1.91          | 3922.54                         |
| RW - 1      | 04/30/07      | 3970.79                 | 48.14            | 49.05          | 0.91          | 3922.51                         |
| RW - 1      | 05/11/07      | 3970.79                 | 48.01            | 49.65          | 1.64          | 3922.53                         |
| RW - 1      | 05/16/07      | 3970.79                 | 48.14            | 49.07          | 0.93          | 3922.51                         |
| RW - 1      | 05/22/07      | 3970.79                 | 48.08            | 49.03          | 0.95          | 3922.57                         |
| RW - 1      | 05/29/07      | 3970.79                 | 48.06            | 49.29          | 1.23          | 3922.55                         |
| RW - 1      | 06/01/07      | 3970.79                 | 48.00            | 49.46          | 1.46          | 3922.57                         |
| RW - 1      | 06/08/07      | 3970.79                 | 48.03            | 49.37          | 1.34          | 3922.56                         |
| RW - 1      | 06/11/07      | 3970.79                 | 48.17            | 49.00          | 0.83          | 3922.50                         |
| RW - 1      | 06/20/07      | 3970.79                 | 48.00            | 49.50          | 1.50          | 3922.57                         |
| RW - 1      | 07/10/07      | 3970.79                 | 48.01            | 49.56          | 1.55          | 3922.55                         |
| RW - 1      | 07/20/07      | 3970.79                 | 47.99            | 49.60          | 1.61          | 3922.56                         |
| RW - 1      | 07/25/07      | 3970.79                 | 48.04            | 49.22          | 1.18          | 3922.57                         |
| RW - 1      | 08/01/07      | 3970.79                 | 48.02            | 49.24          | 1.22          | 3922.59                         |
| RW - 1      | 08/10/07      | 3970.79                 | 48.02            | 49.37          | 1.35          | 3922.57                         |
| RW - 1      | 08/15/07      | 3970.79                 | 48.03            | 49.16          | 1.13          | 3922.59                         |
| RW - 1      | 08/30/07      | 3970.79                 | 47.97            | 49.61          | 1.64          | 3922.57                         |
| RW - 1      | 08/31/07      | 3970.79                 | 47.97            | 49.61          | 1.64          | 3922.57                         |
| RW - 1      | 09/19/07      | 3970.79                 | 47.92            | 49.73          | 1.81          | 3922.60                         |
| RW - 1      | 09/27/07      | 3970.79                 | 47.98            | 49.39          | 1.41          | 3922.60                         |
| RW - 1      | 10/01/07      | 3970.79                 | 48.02            | 49.06          | 1.04          | 3922.61                         |
| RW - 1      | 10/19/07      | 3970.79                 | 47.92            | 49.62          | 1.70          | 3922.62                         |
| RW - 1      | 10/26/07      | 3970.79                 | 47.97            | 49.39          | 1.42          | 3922.61                         |
| RW - 1      | 11/12/07      | 3970.79                 | 47.93            | 49.58          | 1.65          | 3922.61                         |
| RW - 1      | 11/16/07      | 3970.79                 | 47.92            | 49.31          | 1.39          | 3922.66                         |
| RW - 1      | 11/29/07      | 3970.79                 | 47.92            | 50.01          | 2.09          | 3922.56                         |
| RW - 1      | 12/13/07      | 3970.79                 | 47.90            | 49.54          | 1.64          | 3922.64                         |
| RW - 1      | 01/10/08      | 3970.79                 | 47.90            | 49.50          | 1.60          | 3922.65                         |
| RW - 1      | 01/17/08      | 3970.79                 | 47.92            | 49.37          | 1.45          | 3922.65                         |
| RW - 1      | 01/22/08      | 3970.79                 | 47.90            | 49.43          | 1.53          | 3922.66                         |
| RW - 1      | 02/06/08      | 3970.79                 | 47.09            | 49.05          | 1.96          | 3923.41                         |
| RW - 1      | 2/12/08 #1    | 3970.79                 | 48.01            | 48.91          | 0.90          | 3922.65                         |
| RW - 1      | 2/12/08 #2    | 3970.79                 | 48.19            | 48.21          | 0.02          | 3922.60                         |
| RW - 1      | 2/27/08 #1    | 3970.79                 | 48.00            | 48.98          | 0.98          | 3922.64                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| RW - 1      | 2/27/08 #2    | 3970.79                 | 48.15            | 48.21          | 0.06          | 3922.63                         |
| RW - 1      | 03/07/08      | 3970.79                 | 47.92            | 49.21          | 1.29          | 3922.68                         |
| RW - 1      | 3/12/08 #1    | 3970.79                 | 47.92            | 49.21          | 1.29          | 3922.68                         |
| RW - 1      | 3/12/08 #2    | 3970.79                 | 48.04            | 48.31          | 0.27          | 3922.71                         |
| RW - 1      | 3/20/2008#1   | 3970.79                 | 48.23            | 48.50          | 0.27          | 3922.52                         |
| RW - 1      | 3/20/08#2     | 3970.79                 | 48.10            | 48.45          | 0.35          | 3922.64                         |
| RW - 1      | 3/23/08 #1    | 3970.79                 | 47.99            | 48.99          | 1.00          | 3922.65                         |
| RW - 1      | 3/23/08 #2    | 3970.79                 | 48.17            | 48.21          | 0.04          | 3922.61                         |
| RW - 1      | 4/2/08 #1     | 3970.79                 | 47.98            | 48.92          | 0.94          | 3922.67                         |
| RW - 1      | 4/2/08 #2     | 3970.79                 | 48.09            | 48.42          | 0.33          | 3922.65                         |
| RW - 1      | 4/9/08 #1     | 3970.79                 | 47.95            | 48.98          | 1.03          | 3922.69                         |
| RW - 1      | 4/9/08 #2     | 3970.79                 | 48.12            | 48.15          | 0.03          | 3922.67                         |
| RW - 1      | 04/16/08      | 3970.79                 | 47.98            | 48.87          | 0.89          | 3922.68                         |
| RW - 1      | 04/23/08      | 3970.79                 | 47.98            | 48.91          | 0.93          | 3922.67                         |
| RW - 1      | 04/30/08      | 3970.79                 | 47.92            | 49.07          | 1.15          | 3922.70                         |
| RW - 1      | 05/29/08      | 3970.79                 | 47.97            | 48.85          | 0.88          | 3922.69                         |
| RW - 1      | 06/02/08      | 3970.79                 | 47.99            | 48.70          | 0.71          | 3922.69                         |
| RW - 1      | 06/03/08      | 3970.79                 | 47.99            | 48.70          | 0.71          | 3922.69                         |
| RW - 1      | 06/11/08      | 3970.79                 | 47.91            | 48.99          | 1.08          | 3922.72                         |
| RW - 1      | 06/18/08      | 3970.79                 | 47.96            | 48.84          | 0.88          | 3922.70                         |
| RW - 1      | 06/23/08      | 3970.79                 | 47.99            | 48.70          | 0.71          | 3922.69                         |
| RW - 1      | 07/01/08      | 3970.79                 | 47.94            | 49.02          | 1.08          | 3922.69                         |
| RW - 1      | 07/09/08      | 3970.79                 | 47.95            | 48.91          | 0.96          | 3922.70                         |
| RW - 1      | 07/15/08      | 3970.79                 | 47.98            | 48.76          | 0.78          | 3922.69                         |
| RW - 1      | 07/22/08      | 3970.79                 | 47.94            | 49.00          | 1.06          | 3922.69                         |
| RW - 1      | 08/02/08      | 3970.79                 | 47.92            | 48.96          | 1.04          | 3922.71                         |
| RW - 1      | 08/13/08      | 3970.79                 | 47.90            | 49.03          | 1.13          | 3922.72                         |
| RW - 1      | 09/03/08      | 3970.79                 | 47.83            | 49.22          | 1.39          | 3922.75                         |
| RW - 1      | 09/11/08      | 3970.79                 | 47.94            | 48.86          | 0.92          | 3922.71                         |
| RW - 1      | 09/19/08      | 3970.79                 | 47.91            | 48.85          | 0.94          | 3922.74                         |
| RW - 1      | 09/26/08      | 3970.79                 | 47.89            | 49.00          | 1.11          | 3922.73                         |
| RW - 1      | 10/10/08      | 3970.79                 | 47.91            | 48.84          | 0.93          | 3922.74                         |
| RW - 1      | 10/17/08      | 3970.79                 | 47.74            | 47.93          | 0.19          | 3923.02                         |
| RW - 1      | 10/21/08      | 3970.79                 | 47.95            | 48.52          | 0.57          | 3922.75                         |
| RW - 1      | 10/30/08      | 3970.79                 | 47.89            | 48.95          | 1.06          | 3922.74                         |
| RW - 1      | 11/04/08      | 3970.79                 | 48.00            | 48.61          | 0.61          | 3922.70                         |
| RW - 1      | 11/18/08      | 3970.79                 | 47.91            | 49.03          | 1.12          | 3922.71                         |
| RW - 1      | 11/25/08      | 3970.79                 | 47.90            | 49.12          | 1.22          | 3922.71                         |
| RW - 1      | 11/25/08      | 3970.79                 | 48.70            | 48.72          | 0.02          | 3922.09                         |
| RW - 1      | 12/10/08      | 3970.79                 | 47.87            | 49.05          | 1.18          | 3922.74                         |
| RW - 1      | 12/18/08      | 3970.79                 | 47.84            | 49.10          | 1.26          | 3922.76                         |
| RW - 1      | 01/06/09      | 3970.79                 | 47.84            | 49.07          | 1.23          | 3922.77                         |
| RW - 1      | 01/14/09      | 3970.79                 | 47.09            | 48.75          | 1.66          | 3923.45                         |
| RW - 1      | 01/21/09      | 3970.79                 | 47.91            | 48.84          | 0.93          | 3922.74                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| RW - 1      | 01/22/09      | 3970.79                 | 48.00            | 48.21          | 0.21          | 3922.76                         |
| RW - 1      | 01/30/09      | 3970.79                 | 47.91            | 48.74          | 0.83          | 3922.76                         |
| RW - 1      | 02/03/09      | 3970.79                 | 47.99            | 48.57          | 0.58          | 3922.71                         |
| RW - 1      | 02/12/09      | 3970.79                 | 47.89            | 48.91          | 1.02          | 3922.75                         |
| RW - 1      | 02/19/09      | 3970.79                 | 47.85            | 49.00          | 1.15          | 3922.77                         |
| RW - 1      | 03/04/09      | 3970.79                 | 47.92            | 48.97          | 1.05          | 3922.71                         |
| RW - 1      | 03/06/09      | 3970.79                 | 47.82            | 49.00          | 1.18          | 3922.79                         |
| RW - 1      | 03/11/09      | 3970.79                 | 47.94            | 48.60          | 0.66          | 3922.75                         |
| RW - 1      | 03/16/09      | 3970.79                 | 47.95            | 49.00          | 1.05          | 3922.68                         |
| RW - 1      | 03/19/09      | 3970.79                 | 47.90            | 48.72          | 0.82          | 3922.77                         |
| RW - 1      | 03/24/09      | 3970.79                 | 47.89            | 48.49          | 0.60          | 3922.81                         |
| RW - 1      | 04/03/09      | 3970.79                 | 47.85            | 48.90          | 1.05          | 3922.78                         |
| RW - 1      | 04/15/09      | 3970.79                 | 47.86            | 48.80          | 0.94          | 3922.79                         |
| RW - 1      | 04/17/09      | 3970.79                 | 47.98            | 48.25          | 0.27          | 3922.77                         |
| RW - 1      | 04/22/09      | 3970.79                 | 47.83            | 48.88          | 1.05          | 3922.80                         |
| RW - 1      | 04/29/09      | 3970.79                 | 47.84            | 48.79          | 0.95          | 3922.81                         |
| RW - 1      | 05/20/09      | 3970.79                 | 47.82            | 48.88          | 1.06          | 3922.81                         |
| RW - 1      | 06/09/09      | 3970.79                 | 47.82            | 48.95          | 1.13          | 3922.80                         |
| RW - 1      | 06/17/09      | 3970.79                 | 47.88            | 48.81          | 0.93          | 3922.77                         |
| RW - 1      | 06/23/09      | 3970.79                 | 47.83            | 48.87          | 1.04          | 3922.80                         |
| RW - 1      | 07/01/09      | 3970.79                 | 47.82            | 48.88          | 1.06          | 3922.81                         |
| RW - 1      | 07/08/09      | 3970.79                 | 47.89            | 48.61          | 0.72          | 3922.79                         |
| RW - 1      | 07/15/09      | 3970.79                 | 47.86            | 48.64          | 0.78          | 3922.81                         |
| RW - 1      | 07/17/09      | 3970.79                 | 47.91            | 48.60          | 0.69          | 3922.78                         |
| RW - 1      | 07/23/09      | 3970.79                 | 47.83            | 48.88          | 1.05          | 3922.80                         |
| RW - 1      | 07/24/09      | 3970.79                 | 47.96            | 48.17          | 0.21          | 3922.80                         |
| RW - 1      | 07/30/09      | 3970.79                 | 47.91            | 48.60          | 0.69          | 3922.78                         |
| RW - 1      | 08/04/09      | 3970.79                 | 47.91            | 48.48          | 0.57          | 3922.79                         |
| RW - 1      | 08/12/09      | 3970.79                 | 47.88            | 48.73          | 0.85          | 3922.78                         |
| RW - 1      | 08/20/09      | 3970.79                 | 47.92            | 48.75          | 0.83          | 3922.75                         |
| RW - 1      | 08/26/09      | 3970.79                 | 47.83            | 48.80          | 0.97          | 3922.81                         |
| RW - 1      | 09/02/09      | 3970.79                 | 47.87            | 48.75          | 0.88          | 3922.79                         |
| RW - 1      | 09/09/09      | 3970.79                 | 47.90            | 48.61          | 0.71          | 3922.78                         |
| RW - 1      | 09/14/09      | 3970.79                 | 47.92            | 48.45          | 0.53          | 3922.79                         |
| RW - 1      | 09/21/09      | 3970.79                 | 47.86            | 48.71          | 0.85          | 3922.80                         |
| RW - 1      | 10/01/09      | 3970.79                 | 47.88            | 48.84          | 0.96          | 3922.77                         |
| RW - 1      | 10/08/09      | 3970.79                 | 47.90            | 48.76          | 0.86          | 3922.76                         |
| RW - 1      | 10/14/09      | 3970.79                 | 47.87            | 48.70          | 0.83          | 3922.80                         |
| RW - 1      | 10/21/09      | 3970.79                 | 47.82            | 48.59          | 0.77          | 3922.85                         |
| RW - 1      | 10/28/09      | 3970.79                 | 47.85            | 48.69          | 0.84          | 3922.81                         |
| RW - 1      | 11/04/09      | 3970.79                 | 47.90            | 48.63          | 0.73          | 3922.78                         |
| RW - 1      | 11/11/09      | 3970.79                 | 47.87            | 48.60          | 0.73          | 3922.81                         |
| RW - 1      | 11/18/09      | 3970.79                 | 47.88            | 48.61          | 0.73          | 3922.80                         |
| RW - 1      | 11/25/09      | 3970.79                 | 47.90            | 48.58          | 0.68          | 3922.79                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| RW - 1      | 12/02/09      | 3970.79                 | 47.86            | 48.80          | 0.94          | 3922.79                         |
| RW - 1      | 12/10/09      | 3970.79                 | 47.87            | 48.61          | 0.74          | 3922.81                         |
| RW - 1      | 12/17/09      | 3970.79                 | 47.94            | 48.59          | 0.65          | 3922.75                         |
| RW - 1      | 12/21/09      | 3970.79                 | 47.87            | 48.52          | 0.65          | 3922.82                         |
| RW - 1      | 12/30/09      | 3970.79                 | 48.02            | 48.49          | 0.47          | 3922.70                         |
| RW - 1      | 01/07/10      | 3970.79                 | 47.95            | 48.20          | 0.25          | 3922.80                         |
| RW - 1      | 01/18/10      | 3970.79                 | 47.91            | 48.28          | 0.37          | 3922.82                         |
| RW - 1      | 02/02/10      | 3970.79                 | 47.88            | 48.55          | 0.67          | 3922.81                         |
| RW - 1      | 02/11/10      | 3970.79                 | 47.84            | 48.51          | 0.67          | 3922.85                         |
| RW - 1      | 02/18/10      | 3970.79                 | 47.82            | 48.60          | 0.78          | 3922.85                         |
| RW - 1      | 02/25/10      | 3970.79                 | 47.99            | 48.34          | 0.35          | 3922.75                         |
| RW - 1      | 03/02/10      | 3970.79                 | 48.05            | 48.28          | 0.23          | 3922.71                         |
| RW - 1      | 03/04/10      | 3970.79                 | 47.97            | 48.10          | 0.13          | 3922.80                         |
| RW - 1      | 03/10/10      | 3970.79                 | 47.93            | 48.26          | 0.33          | 3922.81                         |
| RW - 1      | 03/12/10      | 3970.79                 | 47.98            | 48.37          | 0.39          | 3922.75                         |
| RW - 1      | 03/15/10      | 3970.79                 | 48.00            | 48.10          | 0.10          | 3922.78                         |
| RW - 1      | 03/18/10      | 3970.79                 | 47.88            | 48.42          | 0.54          | 3922.83                         |
| RW - 1      | 03/22/10      | 3970.79                 | 48.00            | 48.23          | 0.23          | 3922.76                         |
| RW - 1      | 05/17/10      | 3970.79                 | 50.39            | 50.48          | 0.09          | 3920.39                         |
| RW - 1      | 05/20/10      | 3970.79                 | 50.08            | 50.39          | 0.31          | 3920.66                         |
| RW - 1      | 03/04/11      | 3970.79                 | 50.30            | 50.62          | 0.32          | 3920.44                         |
| RW - 1      | 05/12/11      | 3970.79                 | 48.55            | 49.30          | 0.75          | 3922.13                         |
| RW - 1      | 08/02/11      | 3970.79                 | 51.80            | 52.10          | 0.30          | 3918.95                         |
| RW - 1      | 08/09/11      | 3970.79                 | 49.80            | 50.42          | 0.62          | 3920.90                         |
| RW - 1      | 08/12/11      | 3970.79                 | -                | 49.20          | 0.00          | 3921.59                         |
| RW - 1      | 08/15/11      | 3970.79                 | -                | 49.20          | 0.00          | 3921.59                         |
| RW - 1      | 08/23/11      | 3970.79                 | 51.60            | 52.30          | 0.70          | 3919.09                         |
| RW - 1      | 08/26/11      | 3970.79                 | 48.11            | 48.90          | 0.79          | 3922.56                         |
| RW - 1      | 11/22/11      | 3970.79                 | 49.10            | 50.04          | 0.94          | 3921.55                         |
| RW - 1      | 12/02/11      | 3970.79                 | 47.82            | 48.80          | 0.98          | 3922.82                         |
| RW - 1      | 12/29/11      | 3970.79                 | 47.93            | 48.66          | 0.73          | 3922.75                         |
| RW - 1      | 01/26/12      | 3970.79                 | 48.75            | 50.46          | 1.71          | 3921.78                         |
| RW - 1      | 02/28/12      | 3970.79                 | 49.24            | 51.24          | 2.00          | 3921.25                         |
| RW - 1      | 05/17/12      | 3970.79                 | 47.82            | 49.02          | 1.20          | 3922.79                         |
| RW - 1      | 08/01/12      | 3970.79                 | 47.94            | 49.13          | 1.19          | 3922.67                         |
| RW - 1      | 10/25/12      | 3970.79                 | 47.96            | 49.39          | 1.43          | 3922.62                         |
| RW - 1      | 11/29/12      | 3970.79                 | 47.97            | 49.62          | 1.65          | 3922.57                         |
| RW - 1      | 02/11/13      | 3970.79                 | 47.86            | 49.79          | 1.93          | 3922.64                         |
| RW - 1      | 04/11/13      | 3970.79                 | -                | 48.41          | 0.00          | 3922.38                         |
| RW - 1      | 05/06/13      | 3970.79                 | 47.98            | 49.25          | 1.27          | 3922.62                         |
| RW - 1      | 05/29/13      | 3970.79                 | -                | 48.33          | 0.00          | 3922.46                         |
| RW - 1      | 06/26/13      | 3970.79                 | -                | 49.73          | 0.00          | 3921.06                         |
| RW - 1      | 07/31/13      | 3970.79                 | 48.13            | 49.15          | 1.02          | 3922.51                         |
| RW - 1      | 08/06/13      | 3970.79                 | 48.30            | 48.37          | 0.07          | 3922.48                         |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| RW - 1      | 09/30/13      | 3970.79                 | 48.21            | 48.96          | 0.75          | 3922.47                         |
| RW - 1      | 11/18/13      | 3970.79                 | 48.23            | 48.76          | 0.53          | 3922.48                         |
| RW - 1      | 02/04/14      | 3970.79                 | 48.29            | 48.54          | 0.25          | 3922.46                         |
| RW - 1      | 05/28/14      | 3970.79                 | 48.18            | 49.66          | 1.48          | 3922.39                         |
| RW - 1      | 07/30/14      | 3970.79                 | 48.36            | 48.44          | 0.08          | 3922.42                         |
| RW - 1      | 08/23/14      | 3970.79                 | -                | 49.66          | 0.00          | 3921.13                         |
| RW - 1      | 09/10/14      | 3970.79                 | 48.50            | 48.80          | 0.30          | 3922.25                         |
| RW - 1      | 09/23/14      | 3970.79                 | 48.59            | 48.79          | 0.20          | 3922.17                         |
| RW - 1      | 10/31/14      | 3970.79                 | 48.32            | 48.60          | 0.28          | 3922.43                         |
| RW - 1      | 11/18/14      | 3970.79                 | 48.42            | 48.60          | 0.18          | 3922.34                         |
| RW - 1      | 01/05/15      | 3970.79                 | 52.80            | 53.17          | 0.37          | 3917.93                         |
| RW - 1      | 01/09/15      | 3970.79                 | 48.29            | 48.98          | 0.69          | 3922.40                         |
| RW - 1      | 01/14/15      | 3970.79                 | 48.31            | 49.15          | 0.84          | 3922.35                         |
| RW - 1      | 01/21/15      | 3970.79                 | 52.84            | 53.18          | 0.34          | 3917.90                         |
| RW - 1      | 02/11/15      | 3970.79                 | 52.83            | 53.18          | 0.35          | 3917.91                         |
| RW - 1      | 02/19/15      | 3970.79                 | 49.00            | 50.10          | 1.10          | 3921.63                         |
| RW - 1      | 03/09/15      | 3970.79                 | 52.86            | 53.20          | 0.34          | 3917.88                         |
| RW - 1      | 03/11/15      | 3970.79                 | 53.13            | 53.48          | 0.35          | 3917.61                         |
| RW - 1      | 03/31/15      | 3970.79                 | 52.86            | 53.20          | 0.34          | 3917.88                         |
| RW - 1      | 04/09/15      | 3970.79                 | 48.34            | 48.40          | 0.06          | 3922.44                         |
| RW - 1      | 04/15/15      | 3970.79                 | 48.31            | 48.45          | 0.14          | 3922.46                         |
| RW - 1      | 04/22/15      | 3970.79                 | 48.33            | 48.64          | 0.31          | 3922.41                         |
| RW - 1      | 05/12/15      | 3970.79                 | 48.29            | 48.87          | 0.58          | 3922.41                         |
| RW - 1      | 05/26/15      | 3970.79                 | 52.81            | 53.15          | 0.34          | 3917.93                         |
| RW - 1      | 06/01/15      | 3970.79                 | 48.28            | 48.81          | 0.53          | 3922.43                         |
| RW - 1      | 06/04/15      | 3970.79                 | 48.28            | 48.66          | 0.38          | 3922.45                         |
| RW - 1      | 07/27/15      | 3970.79                 | 48.45            | 49.07          | 0.62          | 3922.25                         |
| RW - 1      | 08/18/15      | 3970.79                 | 48.14            | 49.39          | 1.25          | 3922.46                         |
| RW - 1      | 10/08/15      | 3970.79                 | 48.48            | 49.13          | 0.65          | 3922.21                         |
| RW - 1      | 10/21/15      | 3970.79                 | 48.35            | 48.39          | 0.04          | 3922.43                         |
| RW - 1      | 11/23/15      | 3970.79                 | 48.38            | 49.57          | 1.19          | 3922.23                         |
|             |               |                         |                  |                |               |                                 |
| RW - 2      | 05/20/10      | -                       | -                | 54.42          | 0.00          | -                               |
| RW - 2      | 03/04/11      | -                       | sheen            | 54.05          | 0.00          | -                               |
| RW - 2      | 05/12/11      | -                       | -                | 52.69          | 0.00          | -                               |
| RW - 2      | 08/02/11      | -                       | sheen            | 55.00          | 0.00          | -                               |
| RW - 2      | 08/09/11      | -                       | sheen            | 55.50          | 0.00          | -                               |
| RW - 2      | 08/12/11      | -                       | sheen            | 54.07          | 0.00          | -                               |
| RW - 2      | 08/15/11      | -                       | sheen            | 54.01          | 0.00          | -                               |
| RW - 2      | 08/23/11      | -                       | sheen            | 53.92          | 0.00          | -                               |
| RW - 2      | 08/26/11      | -                       | sheen            | 52.75          | 0.00          | -                               |
| RW - 2      | 12/02/11      | -                       | 52.60            | 52.93          | 0.33          | -                               |
| RW - 2      | 12/29/11      | -                       | 52.62            | 52.96          | 0.34          | -                               |
| RW - 2      | 01/26/12      | -                       | 52.89            | 53.13          | 0.24          | -                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| RW - 2      | 02/28/12      | -                       | 52.55            | 53.18          | 0.63          | -                               |
| RW - 2      | 05/17/12      | -                       | 52.47            | 53.31          | 0.84          | -                               |
| RW - 2      | 08/01/12      | -                       | 52.59            | 53.42          | 0.83          | -                               |
| RW - 2      | 10/25/12      | -                       | 52.65            | 53.53          | 0.88          | -                               |
| RW - 2      | 11/29/12      | -                       | 52.73            | 53.56          | 0.83          | -                               |
| RW - 2      | 02/11/13      | -                       | 52.76            | 52.86          | 0.10          | -                               |
| RW - 2      | 04/11/13      | -                       | 53.05            | 53.07          | 0.02          | -                               |
| RW - 2      | 05/06/13      | -                       | 52.77            | 52.89          | 0.12          | -                               |
| RW - 2      | 05/29/13      | -                       | 53.00            | 53.09          | 0.09          | -                               |
| RW - 2      | 06/26/13      | -                       | 53.04            | 53.29          | 0.25          | -                               |
| RW - 2      | 07/31/13      | -                       | 52.89            | 53.09          | 0.20          | -                               |
| RW - 2      | 08/06/13      | -                       | 52.89            | 53.03          | 0.14          | -                               |
| RW - 2      | 09/30/13      | -                       | 52.95            | 53.14          | 0.19          | -                               |
| RW - 2      | 11/18/13      | -                       | 52.90            | 53.18          | 0.28          | -                               |
| RW - 2      | 02/04/14      | -                       | 52.86            | 53.19          | 0.33          | -                               |
| RW - 2      | 04/28/14      | -                       | 52.83            | 53.41          | 0.58          | -                               |
| RW - 2      | 05/28/14      | -                       | 52.96            | 53.35          | 0.39          | -                               |
| RW - 2      | 07/30/14      | -                       | 53.10            | 53.28          | 0.18          | -                               |
| RW - 2      | 08/23/14      | -                       | 53.35            | 53.47          | 0.12          | -                               |
| RW - 2      | 09/10/14      | -                       | 53.07            | 53.40          | 0.33          | -                               |
| RW - 2      | 09/23/14      | -                       | 53.00            | 53.30          | 0.30          | -                               |
| RW - 2      | 10/31/14      | -                       | 52.99            | 53.24          | 0.25          | -                               |
| RW - 2      | 11/18/14      | -                       | 52.90            | 53.27          | 0.37          | -                               |
| RW - 2      | 01/05/15      | -                       | 52.73            | 53.48          | 0.75          | -                               |
| RW - 2      | 01/09/15      | -                       | 52.98            | 53.15          | 0.17          | -                               |
| RW - 2      | 01/14/15      | -                       | 53.00            | 53.17          | 0.17          | -                               |
| RW - 2      | 01/21/15      | -                       | 52.76            | 53.47          | 0.71          | -                               |
| RW - 2      | 02/11/15      | -                       | 52.74            | 53.46          | 0.72          | -                               |
| RW - 2      | 02/19/15      | -                       | 53.28            | 53.32          | 0.04          | -                               |
| RW - 2      | 03/09/15      | -                       | 52.73            | 53.46          | 0.73          | -                               |
| RW - 2      | 03/11/15      | -                       | 52.96            | 53.14          | 0.18          | -                               |
| RW - 2      | 03/31/15      | -                       | 52.77            | 53.49          | 0.72          | -                               |
| RW - 2      | 04/09/15      | -                       | 52.93            | 53.12          | 0.19          | -                               |
| RW - 2      | 04/15/15      | -                       | 52.93            | 53.23          | 0.30          | -                               |
| RW - 2      | 04/22/15      | -                       | 52.92            | 53.22          | 0.30          | -                               |
| RW - 2      | 05/12/15      | -                       | 52.98            | 53.15          | 0.17          | -                               |
| RW - 2      | 05/26/15      | -                       | 52.74            | 53.45          | 0.71          | -                               |
| RW - 2      | 06/01/15      | -                       | 52.96            | 53.08          | 0.12          | -                               |
| RW - 2      | 06/04/15      | -                       | 52.96            | 53.13          | 0.17          | -                               |
| RW - 2      | 07/27/15      | -                       | 53.14            | 53.19          | 0.05          | -                               |
| RW - 2      | 08/18/15      | -                       | 52.95            | 53.11          | 0.16          | -                               |
| RW - 2      | 10/08/15      | -                       | 53.17            | 53.65          | 0.48          | -                               |
| RW - 2      | 10/21/15      | -                       | 53.02            | 53.45          | 0.43          | -                               |
| RW - 2      | 11/23/15      | -                       | 52.45            | 53.60          | 1.15          | -                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL<br>NUMBER | DATE<br>MEASURED | TOP OF<br>CASING<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUNDWATER<br>ELEVATION |
|----------------|------------------|-------------------------------|---------------------|-------------------|------------------|---------------------------------------|
| RW - 3         | 05/20/10         | -                             | 54.73               | 58.80             | 4.07             | -                                     |
| RW - 3         | 03/04/11         | -                             | 54.66               | 55.70             | 1.04             | -                                     |
| RW - 3         | 05/12/11         | -                             | 53.84               | 54.65             | 0.81             | -                                     |
| RW - 3         | 08/02/11         | -                             | 54.35               | 55.32             | 0.97             | -                                     |
| RW - 3         | 08/09/11         | -                             | 54.24               | 55.50             | 1.26             | -                                     |
| RW - 3         | 08/12/11         | -                             | 54.26               | 55.65             | 1.39             | -                                     |
| RW - 3         | 08/15/11         | -                             | 54.24               | 55.50             | 1.26             | -                                     |
| RW - 3         | 08/23/11         | -                             | 53.92               | 54.85             | 0.93             | -                                     |
| RW - 3         | 08/26/11         | -                             | 53.07               | 53.95             | 0.88             | -                                     |
| RW - 3         | 12/02/11         | -                             | 53.01               | 53.97             | 0.96             | -                                     |
| RW - 3         | 12/29/11         | -                             | 53.11               | 53.84             | 0.73             | -                                     |
| RW - 3         | 01/26/12         | -                             | 53.55               | 54.08             | 0.53             | -                                     |
| RW - 3         | 02/28/12         | -                             | 53.00               | 54.14             | 1.14             | -                                     |
| RW - 3         | 05/17/12         | -                             | 53.10               | 53.62             | 0.52             | -                                     |
| RW - 3         | 08/01/12         | -                             | 53.22               | 53.74             | 0.52             | -                                     |
| RW - 3         | 10/25/12         | -                             | 53.13               | 54.32             | 1.19             | -                                     |
| RW - 3         | 11/29/12         | -                             | 53.26               | 53.87             | 0.61             | -                                     |
| RW - 3         | 02/11/13         | -                             | 53.16               | 54.00             | 0.84             | -                                     |
| RW - 3         | 04/11/13         | -                             | 53.44               | 54.19             | 0.75             | -                                     |
| RW - 3         | 05/06/13         | -                             | 53.18               | 54.10             | 0.92             | -                                     |
| RW - 3         | 05/29/13         | -                             | 53.35               | 54.16             | 0.81             | -                                     |
| RW - 3         | 06/26/13         | -                             | 53.38               | 54.26             | 0.88             | -                                     |
| RW - 3         | 07/31/13         | -                             | 53.20               | 54.55             | 1.35             | -                                     |
| RW - 3         | 08/06/13         | -                             | 53.19               | 54.66             | 1.47             | -                                     |
| RW - 3         | 09/30/13         | -                             | 53.27               | 54.71             | 1.44             | -                                     |
| RW - 3         | 11/18/13         | -                             | 52.22               | 53.72             | 1.50             | -                                     |
| RW - 3         | 02/04/14         | -                             | 53.24               | 54.21             | 0.97             | -                                     |
| RW - 3         | 04/28/14         | -                             | 53.12               | 55.14             | 2.02             | -                                     |
| RW - 3         | 05/28/14         | -                             | 53.19               | 55.55             | 2.36             | -                                     |
| RW - 3         | 07/30/14         | -                             | 52.58               | 53.03             | 0.45             | -                                     |
| RW - 3         | 08/23/14         | -                             | 52.98               | 53.71             | 0.73             | -                                     |
| RW - 3         | 09/10/14         | -                             | 53.62               | 53.78             | 0.16             | -                                     |
| RW - 3         | 09/23/14         | -                             | 53.58               | 53.98             | 0.40             | -                                     |
| RW - 3         | 10/31/14         | -                             | 53.53               | 53.67             | 0.14             | -                                     |
| RW - 3         | 11/18/14         | -                             | 53.55               | 53.73             | 0.18             | -                                     |
| RW - 3         | 01/05/15         | -                             | 52.77               | 53.54             | 0.77             | -                                     |
| RW - 3         | 01/09/15         | -                             | 53.48               | 53.86             | 0.38             | -                                     |
| RW - 3         | 01/14/15         | -                             | 53.48               | 53.86             | 0.38             | -                                     |
| RW - 3         | 01/21/15         | -                             | 52.78               | 53.56             | 0.78             | -                                     |
| RW - 3         | 02/11/15         | -                             | 52.77               | 53.54             | 0.77             | -                                     |
| RW - 3         | 02/19/15         | -                             | 53.47               | 53.98             | 0.51             | -                                     |
| RW - 3         | 03/09/15         | -                             | 52.75               | 53.55             | 0.80             | -                                     |
| RW - 3         | 03/11/15         | -                             | 53.42               | 54.14             | 0.72             | -                                     |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| RW - 3      | 03/31/15      | -                       | 52.78            | 53.57          | 0.79          | -                               |
| RW - 3      | 04/09/15      | -                       | 53.36            | 54.20          | 0.84          | -                               |
| RW - 3      | 04/15/15      | -                       | 53.34            | 54.30          | 0.96          | -                               |
| RW - 3      | 04/22/15      | -                       | 53.33            | 54.34          | 1.01          | -                               |
| RW - 3      | 05/12/15      | -                       | 53.39            | 54.10          | 0.71          | -                               |
| RW - 3      | 05/26/15      | -                       | 52.84            | 53.52          | 0.68          | -                               |
| RW - 3      | 06/01/15      | -                       | 53.42            | 54.02          | 0.60          | -                               |
| RW - 3      | 06/04/15      | -                       | 53.40            | 54.04          | 0.64          | -                               |
| RW - 3      | 07/27/15      | -                       | 53.48            | 54.45          | 0.97          | -                               |
| RW - 3      | 08/18/15      | -                       | 53.09            | 54.45          | 1.36          | -                               |
| RW - 3      | 10/08/15      | -                       | 53.38            | 54.99          | 1.61          | -                               |
| RW - 3      | 10/21/15      | -                       | 53.28            | 55.05          | 1.77          | -                               |
| RW - 3      | 11/23/15      | -                       | 52.55            | 52.57          | 0.02          | -                               |
|             |               |                         |                  |                |               |                                 |
| RW - 4      | 05/20/10      | -                       | 55.62            | 59.23          | 3.61          | -                               |
| RW - 4      | 03/04/11      | -                       | 53.13            | 55.08          | 1.95          | -                               |
| RW - 4      | 05/12/11      | -                       | 53.58            | 55.35          | 1.77          | -                               |
| RW - 4      | 08/02/11      | -                       | 55.71            | 58.75          | 3.04          | -                               |
| RW - 4      | 08/09/11      | -                       | 55.02            | 58.91          | 3.89          | -                               |
| RW - 4      | 08/12/11      | -                       | 54.40            | 58.55          | 4.15          | -                               |
| RW - 4      | 08/15/11      | -                       | 55.02            | 58.91          | 3.89          | -                               |
| RW - 4      | 08/23/11      | -                       | 54.42            | 57.62          | 3.20          | -                               |
| RW - 4      | 08/26/11      | -                       | 52.93            | 55.20          | 2.27          | -                               |
| RW - 4      | 12/02/11      | -                       | 52.69            | 55.52          | 2.83          | -                               |
| RW - 4      | 12/29/11      | -                       | 52.83            | 55.21          | 2.38          | -                               |
| RW - 4      | 01/26/12      | -                       | 52.99            | 55.36          | 2.37          | -                               |
| RW - 4      | 02/28/12      | -                       | 52.94            | 55.00          | 2.06          | -                               |
| RW - 4      | 05/17/12      | -                       | 52.85            | 54.81          | 1.96          | -                               |
| RW - 4      | 08/01/12      | -                       | 52.97            | 54.92          | 1.95          | -                               |
| RW - 4      | 10/25/12      | -                       | 53.03            | 54.91          | 1.88          | -                               |
| RW - 4      | 11/29/12      | -                       | 53.07            | 55.00          | 1.93          | -                               |
| RW - 4      | 02/11/13      | -                       | 52.99            | 54.92          | 1.93          | -                               |
| RW - 4      | 04/11/13      | -                       | 53.22            | 55.13          | 1.91          | -                               |
| RW - 4      | 05/06/13      | -                       | 53.07            | 54.76          | 1.69          | -                               |
| RW - 4      | 05/29/13      | -                       | 53.19            | 55.05          | 1.86          | -                               |
| RW - 4      | 06/26/13      | -                       | 52.83            | 56.36          | 3.53          | -                               |
| RW - 4      | 07/31/13      | -                       | 52.47            | 57.93          | 5.46          | -                               |
| RW - 4      | 08/06/13      | -                       | 52.40            | 58.42          | 6.02          | -                               |
| RW - 4      | 09/30/13      | -                       | 52.72            | 57.32          | 4.60          | -                               |
| RW - 4      | 11/18/13      | -                       | 53.15            | 55.15          | 2.00          | -                               |
| RW - 4      | 02/04/14      | -                       | 53.14            | 55.11          | 1.97          | -                               |
| RW - 4      | 04/28/14      | -                       | 53.10            | 55.57          | 2.47          | -                               |
| RW - 4      | 05/28/14      | -                       | 53.08            | 56.15          | 3.07          | -                               |
| RW - 4      | 07/30/14      | -                       | 53.66            | 54.20          | 0.54          | -                               |

TABLE 1

## HISTORIC GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.  
TNM 97-04 (TOWNSEND)  
LEA COUNTY, NEW MEXICO

| WELL NUMBER | DATE MEASURED | TOP OF CASING ELEVATION | DEPTH TO PRODUCT | DEPTH TO WATER | PSH THICKNESS | CORRECTED GROUNDWATER ELEVATION |
|-------------|---------------|-------------------------|------------------|----------------|---------------|---------------------------------|
| RW - 4      | 08/23/14      | -                       | -                | 53.94          | 0.00          | -                               |
| RW - 4      | 09/10/14      | -                       | 53.54            | 54.40          | 0.86          | -                               |
| RW - 4      | 09/23/14      | -                       | 53.46            | 54.80          | 1.34          | -                               |
| RW - 4      | 10/31/14      | -                       | 53.50            | 53.85          | 0.35          | -                               |
| RW - 4      | 11/18/14      | -                       | 53.49            | 54.19          | 0.70          | -                               |
| RW - 4      | 01/05/15      | -                       | 52.71            | 53.74          | 1.03          | -                               |
| RW - 4      | 01/09/15      | -                       | 53.42            | 54.37          | 0.95          | -                               |
| RW - 4      | 01/14/15      | -                       | 53.42            | 54.45          | 1.03          | -                               |
| RW - 4      | 01/21/15      | -                       | -                | 53.67          | 0.00          | -                               |
| RW - 4      | 02/11/15      | -                       | 52.72            | 53.70          | 0.98          | -                               |
| RW - 4      | 02/19/15      | -                       | 53.55            | 54.10          | 0.55          | -                               |
| RW - 4      | 03/09/15      | -                       | -                | 53.67          | 0.00          | -                               |
| RW - 4      | 03/11/15      | -                       | 53.45            | 54.14          | 0.69          | -                               |
| RW - 4      | 03/31/15      | -                       | 52.69            | 53.68          | 0.99          | -                               |
| RW - 4      | 04/09/15      | -                       | 53.33            | 54.62          | 1.29          | -                               |
| RW - 4      | 04/15/15      | -                       | 53.30            | 54.69          | 1.39          | -                               |
| RW - 4      | 04/22/15      | -                       | 53.30            | 54.73          | 1.43          | -                               |
| RW - 4      | 05/12/15      | -                       | 53.33            | 54.68          | 1.35          | -                               |
| RW - 4      | 05/26/15      | -                       | 52.79            | 53.64          | 0.85          | -                               |
| RW - 4      | 06/01/15      | -                       | 53.35            | 54.63          | 1.28          | -                               |
| RW - 4      | 06/04/15      | -                       | 53.31            | 54.68          | 1.37          | -                               |
| RW - 4      | 07/27/15      | -                       | 53.23            | 55.83          | 2.60          | -                               |
| RW - 4      | 08/18/15      | -                       | 53.01            | 55.96          | 2.95          | -                               |
| RW - 4      | 10/08/15      | -                       | 53.16            | 55.08          | 1.92          | -                               |
| RW - 4      | 10/21/15      | -                       | 53.14            | 55.85          | 2.71          | -                               |
| RW - 4      | 11/23/15      | -                       | 53.37            | 55.55          | 2.18          | -                               |
|             |               |                         |                  |                |               |                                 |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION            | SAMPLE<br>DATE | EPA SW 846-8021B, 5030                 |         |                   |                   |                |
|-------------------------------|----------------|----------------------------------------|---------|-------------------|-------------------|----------------|
|                               |                | BENZENE                                | TOLUENE | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| NMOCD REGULATORY<br>GUIDELINE |                | 0.01                                   | 0.75    | 0.75              | 0.62              |                |
| MW - 1                        | 03/02/00       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 1                        | 04/05/00       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 1                        | 09/06/00       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 1                        | 11/28/00       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 1                        | 02/21/01       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 1                        | 05/31/01       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 1                        | 08/23/01       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 1                        | 11/21/01       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 1                        | 02/13/02       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 1                        | 06/12/02       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 1                        | 08/26/02       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 1                        | 11/21/02       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 1                        | 02/06/03       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 1                        | 05/07/03       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 1                        | 08/18/03       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 1                        | 12/01/03       | <0.001                                 | <0.001  | <0.001            | <0.002            | <0.001         |
| MW - 1                        | 02/05/04       | <0.001                                 | <0.001  | <0.001            | <0.002            | <0.001         |
| MW - 1                        | 12/15/04       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 1                        | 03/22/05       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 1                        | 06/22/05       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 1                        | 09/14/05       | Plugged and Abandoned                  |         |                   |                   |                |
|                               |                |                                        |         |                   |                   |                |
| MW - 2                        | 03/22/05       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 06/22/05       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 09/21/05       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 12/16/05       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 03/20/06       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 06/21/06       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 09/27/06       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 12/04/06       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 03/14/07       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 05/29/07       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 08/30/07       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 11/12/07       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 03/07/08       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 06/02/08       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 09/03/08       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 12/10/08       | 13.80                                  | 5.200   | 0.864             | 2.700             |                |
| MW - 2                        | 02/19/09       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 05/20/09       | Not Sampled Due to PSH in Well         |         |                   |                   |                |
| MW - 2                        | 08/12/09       | Not Sampled Due to PSH in Well         |         |                   |                   |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030         |         |                   |                   |                |
|--------------------|----------------|--------------------------------|---------|-------------------|-------------------|----------------|
|                    |                | BENZENE                        | TOLUENE | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 2             | 11/25/09       | 12.00                          | 6.380   | 0.834             | 2.940             |                |
| MW - 2             | 02/11/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 05/17/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 08/16/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 11/10/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 02/28/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 05/12/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 08/15/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 11/22/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 02/28/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 05/17/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 08/01/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 11/29/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 02/11/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 05/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 08/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 11/18/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 02/04/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 05/28/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 08/23/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 11/18/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 02/19/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 05/12/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 08/18/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 2             | 11/23/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
|                    |                |                                |         |                   |                   |                |
| MW - 3             | 03/22/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 06/22/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 09/21/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 12/16/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 03/20/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 06/21/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 09/27/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 12/04/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 03/14/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 05/29/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 08/30/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 11/12/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 03/07/08       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 06/02/08       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 09/03/08       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 12/10/08       | 10.10                          | 6.40    | 1.040             | 2.80              |                |
| MW - 3             | 02/19/09       | Not Sampled Due to PSH in Well |         |                   |                   |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030         |         |                   |                   |                |
|--------------------|----------------|--------------------------------|---------|-------------------|-------------------|----------------|
|                    |                | BENZENE                        | TOLUENE | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 3             | 05/20/09       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 08/12/09       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 11/25/09       | 16.80                          | 17.20   | 4.690             | 14.20             |                |
| MW - 3             | 02/11/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 05/17/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 08/16/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 11/10/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 02/28/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 05/12/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 08/15/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 11/22/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 02/28/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 05/17/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 08/01/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 11/29/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 02/11/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 05/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 05/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 11/18/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 02/04/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 05/28/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 08/23/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 11/18/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 02/19/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 05/12/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 08/18/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 3             | 11/23/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
|                    |                |                                |         |                   |                   |                |
| MW - 4             | 03/22/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 4             | 06/22/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 4             | 09/21/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 4             | 12/16/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 4             | 03/20/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 4             | 06/21/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 4             | 09/27/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 4             | 12/04/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 4             | 03/14/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 4             | 05/29/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 4             | 08/30/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 4             | 11/12/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 4             | 03/07/08       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 4             | 06/02/08       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 4             | 09/03/08       | Not Sampled Due to PSH in Well |         |                   |                   |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030         |          |                   |                   |                |
|--------------------|----------------|--------------------------------|----------|-------------------|-------------------|----------------|
|                    |                | BENZENE                        | TOLUENE  | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 4             | 12/10/08       | 1.930                          | 0.996    | 0.613             | 1.620             |                |
| MW - 4             | 02/19/09       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 4             | 05/20/09       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 4             | 08/12/09       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 4             | 11/25/09       | 2.000                          | 1.060    | 0.618             | 1.340             |                |
| MW - 4             | 02/11/10       | 2.150                          | 1.230    | 0.825             | 2.150             |                |
| MW - 4             | 05/17/10       | 0.747                          | 0.125    | 0.335             | 0.549             |                |
| MW - 4             | 08/16/10       | 1.180                          | 0.237    | 0.445             | 0.599             |                |
| MW - 4             | 11/10/10       | 0.583                          | 0.174    | 0.370             | 0.762             |                |
| MW - 4             | 02/28/11       | 1.140                          | 0.343    | 0.556             | 0.999             |                |
| MW - 4             | 05/12/11       | 1.020                          | 0.292    | 0.517             | 1.210             |                |
| MW - 4             | 08/15/11       | 0.838                          | 0.084    | 0.355             | 0.387             |                |
| MW - 4             | 11/22/11       | 0.684                          | 0.061    | 0.435             | 1.070             |                |
| MW - 4             | 02/28/12       | 0.614                          | 0.073    | 0.366             | 0.865             |                |
| MW - 4             | 05/17/12       | 0.901                          | 0.071    | 0.474             | 0.929             |                |
| MW - 4             | 08/01/12       | 0.632                          | <0.050   | 0.396             | 0.776             |                |
| MW - 4             | 11/29/12       | 0.188                          | 0.0042   | 0.135             | 0.308             |                |
| MW - 4             | 02/11/13       | 0.262                          | <0.005   | 0.329             | 0.790             |                |
| MW - 4             | 05/06/13       | 0.396                          | <0.005   | 0.480             | 1.55              |                |
| MW - 4             | 08/06/13       | 0.259                          | <0.005   | 0.406             | 1.05              |                |
| MW - 4             | 11/19/13       | <0.00100                       | <0.00100 | <0.00100          | <0.00300          |                |
| MW - 4             | 12/08/13       | 0.0777                         | <0.0500  | <0.0500           | <0.150            |                |
| MW - 4             | 02/04/14       | 0.322                          | <0.0500  | 0.294             | 0.684             |                |
| MW - 4             | 05/28/14       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 4             | 08/23/14       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 4             | 11/18/14       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 4             | 02/19/15       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 4             | 05/12/15       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 4             | 08/18/15       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 4             | 11/23/15       | Not Sampled Due to PSH in Well |          |                   |                   |                |
|                    |                |                                |          |                   |                   |                |
| MW - 5             | 03/22/05       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 5             | 06/22/05       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 5             | 09/21/05       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 5             | 12/16/05       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 5             | 03/20/06       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 5             | 06/21/06       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 5             | 09/27/06       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 5             | 12/04/06       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 5             | 03/14/07       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 5             | 05/29/07       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 5             | 08/30/07       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 5             | 11/12/07       | Not Sampled Due to PSH in Well |          |                   |                   |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030         |         |                   |                   |                |
|--------------------|----------------|--------------------------------|---------|-------------------|-------------------|----------------|
|                    |                | BENZENE                        | TOLUENE | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 5             | 03/07/08       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 06/02/08       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 09/03/08       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 12/10/08       | 18.90                          | 9.030   | 1.490             | 3.520             |                |
| MW - 5             | 02/19/09       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 05/20/09       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 08/12/09       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 11/25/09       | 15.60                          | 5.700   | 1.080             | 2.290             |                |
| MW - 5             | 02/11/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 05/17/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 08/16/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 11/10/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 02/28/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 05/12/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 08/15/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 11/22/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 02/28/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 05/17/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 08/01/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 11/29/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 02/11/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 05/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 08/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 11/18/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 02/04/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 05/28/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 08/23/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 11/18/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 02/19/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 05/12/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 08/18/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 5             | 11/23/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
|                    |                |                                |         |                   |                   |                |
| MW - 6             | 03/22/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 6             | 06/22/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 6             | 09/21/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 6             | 12/16/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 6             | 03/20/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 6             | 06/21/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 6             | 09/27/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 6             | 12/04/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 6             | 03/14/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 6             | 05/29/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030         |          |                   |                   |                |
|--------------------|----------------|--------------------------------|----------|-------------------|-------------------|----------------|
|                    |                | BENZENE                        | TOLUENE  | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 6             | 08/30/07       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 11/12/07       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 03/07/08       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 06/02/08       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 09/03/08       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 12/10/08       | 26.00                          | 3.950    | 1.230             | 2.850             |                |
| MW - 6             | 02/19/09       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 05/20/09       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 08/12/09       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 11/25/09       | 19.80                          | 5.060    | 1.010             | 2.330             |                |
| MW - 6             | 02/11/10       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 05/17/10       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 08/16/10       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 11/10/10       | 4.04                           | 2.830    | 0.494             | 1.710             |                |
| MW - 6             | 02/28/11       | 3.77                           | 2.320    | 0.330             | 0.926             |                |
| MW - 6             | 05/12/11       | 1.37                           | 0.637    | 0.123             | 0.503             |                |
| MW - 6             | 08/15/11       | 2.10                           | 0.945    | 0.0741            | 0.612             |                |
| MW - 6             | 11/22/11       | 3.59                           | 1.460    | 0.3170            | 1.100             |                |
| MW - 6             | 02/28/12       | 4.54                           | 1.560    | 0.2890            | 1.200             |                |
| MW - 6             | 05/17/12       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 08/01/12       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 11/29/12       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 02/11/13       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 05/06/13       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 08/06/13       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 11/18/13       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 02/04/14       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 05/28/14       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 08/23/14       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 11/18/14       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 02/19/15       | 0.579                          | <0.0500  | 0.0912            | 0.154             |                |
| MW - 6             | 05/12/15       | Not Sampled Due to PSH in Well |          |                   |                   |                |
| MW - 6             | 08/18/15       | 0.324                          | <0.0500  | <0.0500           | 0.158             |                |
| MW - 6             | 11/23/15       | 0.286                          | <0.00100 | 0.0413            | 0.0857            |                |
|                    |                |                                |          |                   |                   |                |
| MW - 7             | 03/02/00       | <0.001                         | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 7             | 04/25/00       | <0.001                         | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 7             | 09/06/00       | <0.001                         | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 7             | 11/28/00       | <0.001                         | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 7             | 02/21/01       | 0.005                          | <0.001   | <0.001            | 0.013             | 0.026          |
| MW - 7             | 05/31/01       | 0.033                          | 0.015    | <0.001            | 0.100             |                |
| MW - 7             | 08/23/01       | 0.009                          | 0.002    | <0.001            | 0.029             | 0.049          |
| MW - 7             | 11/21/01       | 0.007                          | 0.002    | <0.001            | 0.022             | 0.037          |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030                 |         |                   |                   |                |
|--------------------|----------------|----------------------------------------|---------|-------------------|-------------------|----------------|
|                    |                | BENZENE                                | TOLUENE | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 7             | 02/13/02       | 0.004                                  | <0.001  | <0.001            | 0.017             | 0.027          |
| MW - 7             | 06/12/02       | 0.002                                  | <0.001  | <0.001            | 0.009             | 0.001          |
| MW - 7             | 08/26/02       | 0.001                                  | <0.001  | 0.012             | 0.014             | <0.001         |
| MW - 7             | 11/21/02       | <0.001                                 | <0.001  | <0.001            | 0.003             | <0.001         |
| MW - 7             | 02/06/03       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 7             | 05/07/03       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 7             | 08/18/03       | <0.001                                 | <0.001  | <0.001            | 0.002             | <0.001         |
| MW - 7             | 12/01/03       | <0.001                                 | <0.001  | <0.001            | <0.002            | <0.001         |
| MW - 7             | 02/05/04       | <0.001                                 | <0.001  | <0.001            | <0.002            | <0.001         |
| MW - 7             | 12/15/04       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 7             | 03/22/05       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 06/22/05       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 09/21/05       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 12/16/05       | <0.001                                 | <0.001  | 0.0028            | 0.0031            |                |
| MW - 7             | 03/20/06       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 06/21/06       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 09/27/06       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 12/04/06       | <0.001                                 | <0.001  | 0.0309            | 0.0085            |                |
| MW - 7             | 03/14/07       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 05/29/07       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 08/30/07       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 11/12/07       | <0.001                                 | <0.001  | 0.0062            | 0.0015            |                |
| MW - 7             | 03/07/08       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 06/02/08       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 09/03/08       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 12/08/08       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 7             | 02/19/09       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 05/20/09       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 08/12/09       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 11/25/09       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 7             | 02/11/10       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 05/17/10       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 08/16/10       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 11/10/10       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 7             | 02/28/11       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 05/12/11       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 08/15/11       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 11/22/11       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 7             | 02/28/12       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 05/17/12       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 08/01/12       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 7             | 11/29/12       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 7             | 02/11/13       | Not Sampled on Current Sample Schedule |         |                   |                   |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030                 |          |                   |                   |                |
|--------------------|----------------|----------------------------------------|----------|-------------------|-------------------|----------------|
|                    |                | BENZENE                                | TOLUENE  | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 7             | 05/06/13       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 7             | 08/06/13       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 7             | 11/19/13       | 0.0729                                 | 0.0023   | 0.0788            | 0.2020            |                |
| MW - 7             | 12/08/13       | <0.00100                               | <0.00100 | <0.00100          | <0.00300          |                |
| MW - 7             | 02/04/14       | <0.00100                               | <0.00100 | <0.00100          | <0.00300          |                |
| MW - 7             | 05/28/14       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 7             | 08/23/14       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 7             | 11/18/14       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 7             | 02/19/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 7             | 05/12/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 7             | 08/18/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 7             | 11/23/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
|                    |                |                                        |          |                   |                   |                |
| MW - 8             | 03/02/00       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 04/25/00       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 09/06/00       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 11/28/00       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 02/21/01       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 05/31/01       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 08/23/01       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 11/21/01       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 02/13/02       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 06/12/02       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 08/26/02       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 11/21/02       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 02/06/03       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 05/07/03       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 08/18/03       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 12/01/03       | <0.001                                 | <0.001   | <0.001            | <0.002            | <0.001         |
| MW - 8             | 02/05/04       | <0.001                                 | <0.001   | <0.001            | <0.002            | <0.001         |
| MW - 8             | 12/15/04       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 8             | 03/22/05       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 8             | 06/22/05       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 8             | 09/14/05       | Plugged and Abandoned                  |          |                   |                   |                |
|                    |                |                                        |          |                   |                   |                |
| MW - 9             | 03/22/05       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 9             | 06/22/05       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 9             | 09/21/05       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 9             | 12/16/05       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 9             | 03/20/06       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 9             | 06/21/06       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 9             | 09/27/06       | Not Sampled Due to PSH in Well         |          |                   |                   |                |
| MW - 9             | 12/04/06       | Not Sampled Due to PSH in Well         |          |                   |                   |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030         |         |                   |                   |                |
|--------------------|----------------|--------------------------------|---------|-------------------|-------------------|----------------|
|                    |                | BENZENE                        | TOLUENE | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 9             | 03/14/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 05/29/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 08/30/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 11/12/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 03/07/08       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 06/02/08       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 09/03/08       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 12/10/08       | 2.240                          | 2.850   | 0.633             | 1.790             |                |
| MW - 9             | 02/19/09       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 05/20/09       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 08/12/09       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 08/12/09       | 2.090                          | 2.470   | 0.503             | 1.600             |                |
| MW - 9             | 02/11/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 05/17/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 08/16/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 11/10/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 02/28/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 05/12/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 08/15/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 11/22/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 02/28/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 05/17/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 08/01/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 11/29/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 02/11/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 05/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 08/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 11/18/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 02/04/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 05/28/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 08/23/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 11/18/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 02/19/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 05/12/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 08/18/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| MW - 9             | 11/23/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
|                    |                |                                |         |                   |                   |                |
| MW - 10            | 03/02/00       | <0.001                         | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 10            | 04/25/00       | <0.001                         | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 10            | 09/06/00       | <0.001                         | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 10            | 11/28/00       | <0.001                         | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 10            | 02/21/01       | <0.001                         | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 10            | 05/31/01       | <0.001                         | <0.001  | <0.001            | <0.001            | <0.001         |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030                 |         |                   |                   |                |
|--------------------|----------------|----------------------------------------|---------|-------------------|-------------------|----------------|
|                    |                | BENZENE                                | TOLUENE | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 10            | 08/23/01       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 10            | 11/21/01       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 10            | 02/13/02       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 10            | 06/12/02       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 10            | 08/26/02       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 10            | 11/21/02       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 10            | 02/06/03       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 10            | 05/07/03       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 10            | 08/18/03       | 0.005                                  | 0.002   | <0.001            | 0.001             | <0.001         |
| MW - 10            | 12/01/03       | 0.002                                  | 0.001   | <0.001            | <0.002            | <0.001         |
| MW - 10            | 02/05/04       | <0.001                                 | <0.001  | <0.001            | <0.002            | <0.001         |
| MW - 10            | 12/15/04       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 10            | 03/22/05       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 06/22/05       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 09/21/05       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 12/16/05       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 10            | 03/20/06       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 06/21/06       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 09/27/06       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 12/04/06       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 10            | 03/14/07       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 05/29/07       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 08/30/07       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 11/12/07       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 10            | 03/07/08       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 06/02/08       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 09/03/08       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 12/08/08       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 10            | 02/19/09       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 05/20/09       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 08/12/09       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 11/25/09       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 10            | 02/11/10       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 05/17/10       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 08/16/10       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 11/10/10       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 10            | 02/28/11       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 05/12/11       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 08/15/11       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 11/22/11       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 10            | 02/28/12       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 05/17/12       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 10            | 08/01/12       | Not Sampled on Current Sample Schedule |         |                   |                   |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030                 |          |                   |                   |                |
|--------------------|----------------|----------------------------------------|----------|-------------------|-------------------|----------------|
|                    |                | BENZENE                                | TOLUENE  | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 10            | 11/29/12       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 10            | 02/11/13       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 10            | 05/06/13       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 10            | 08/06/13       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 10            | 11/18/13       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 10            | 02/04/14       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 10            | 05/28/14       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 10            | 08/23/14       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 10            | 11/18/14       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 10            | 02/19/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 10            | 05/12/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 10            | 08/18/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 10            | 11/23/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
|                    |                |                                        |          |                   |                   |                |
| MW - 11            | 03/02/00       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 11            | 04/25/00       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 11            | 09/06/00       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 11            | 11/28/00       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 11            | 02/21/01       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 11            | 05/31/01       | 0.015                                  | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 11            | 08/23/01       | 0.005                                  | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 11            | 11/21/01       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 11            | 02/13/02       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 11            | 06/12/02       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 11            | 08/26/02       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 11            | 11/21/02       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 11            | 02/06/03       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 11            | 05/07/03       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 11            | 08/18/03       | 0.006                                  | <0.001   | <0.001            | 0.006             | <0.001         |
| MW - 11            | 12/01/03       | 0.039                                  | <0.001   | 0.002             | 0.004             | <0.001         |
| MW - 11            | 02/05/04       | <0.001                                 | <0.001   | <0.001            | 0.017             | <0.001         |
| MW - 11            | 05/05/04       | <0.001                                 | <0.001   | <0.001            | 0.005             | <0.001         |
| MW - 11            | 09/01/04       | <0.001                                 | <0.001   | <0.001            | 0.006             | <0.001         |
| MW - 11            | 12/15/04       | <0.001                                 | <0.001   | <0.001            | 0.002             |                |
| MW - 11            | 03/22/05       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 11            | 06/22/05       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 11            | 09/21/05       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 11            | 12/16/05       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 11            | 03/20/06       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 11            | 06/21/06       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 11            | 09/27/06       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 12/04/06       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 11            | 03/14/07       | Not Sampled on Current Sample Schedule |          |                   |                   |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030                 |          |                   |                   |                |
|--------------------|----------------|----------------------------------------|----------|-------------------|-------------------|----------------|
|                    |                | BENZENE                                | TOLUENE  | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 11            | 05/29/07       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 08/30/07       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 11/12/07       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 11            | 03/07/08       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 06/02/08       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 09/03/08       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 12/08/08       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 11            | 02/19/09       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 05/20/09       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 08/12/09       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 11/25/09       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 11            | 02/11/10       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 05/17/10       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 08/16/10       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 11/10/10       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 11            | 02/28/11       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 05/12/11       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 08/15/11       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 11/22/11       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 11            | 02/28/12       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 05/17/12       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 08/01/12       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 11/29/12       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 11            | 02/11/13       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 05/06/13       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 08/06/13       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 11/18/13       | 0.0023                                 | <0.001   | <0.001            | <0.00300          |                |
| MW - 11            | 02/04/14       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 05/28/14       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 08/23/14       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 11/18/14       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 11            | 02/19/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 05/12/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 08/18/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 11            | 11/23/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
|                    |                |                                        |          |                   |                   |                |
| MW - 12            | 03/02/00       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 12            | 04/25/00       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 12            | 09/06/00       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 12            | 11/28/00       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 12            | 02/21/01       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 12            | 05/31/01       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 12            | 08/23/01       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030                 |         |                   |                   |                |
|--------------------|----------------|----------------------------------------|---------|-------------------|-------------------|----------------|
|                    |                | BENZENE                                | TOLUENE | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 12            | 11/21/01       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 12            | 02/13/02       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 12            | 06/12/02       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 12            | 08/26/02       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 12            | 11/21/02       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 12            | 02/06/03       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 12            | 05/07/03       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 12            | 08/18/03       | <0.001                                 | <0.001  | <0.001            | <0.001            | <0.001         |
| MW - 12            | 12/01/03       | 0.002                                  | 0.001   | <0.001            | <0.002            | <0.001         |
| MW - 12            | 02/05/04       | <0.001                                 | <0.001  | <0.001            | <0.002            | <0.001         |
| MW - 12            | 12/15/04       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 12            | 03/22/05       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 06/22/05       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 09/21/05       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 12/16/05       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 12            | 03/20/06       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 06/21/06       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 09/27/06       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 12/04/06       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 12            | 03/14/07       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 05/29/07       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 08/30/07       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 11/12/07       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 12            | 03/07/08       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 06/02/08       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 09/04/08       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 12/08/08       | <0.001                                 | <0.001  | <0.001            | 0.007             |                |
| MW - 12            | 02/19/09       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 12            | 05/20/09       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 08/12/09       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 11/25/09       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 12            | 02/11/10       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 05/17/10       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 08/16/10       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 11/10/10       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 12            | 02/28/11       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 05/12/11       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 08/15/11       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 11/22/11       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |
| MW - 12            | 02/28/12       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 05/17/12       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 08/01/12       | Not Sampled on Current Sample Schedule |         |                   |                   |                |
| MW - 12            | 11/29/12       | <0.001                                 | <0.001  | <0.001            | <0.001            |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030                 |          |                   |                   |                |
|--------------------|----------------|----------------------------------------|----------|-------------------|-------------------|----------------|
|                    |                | BENZENE                                | TOLUENE  | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 12            | 02/11/13       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 12            | 05/06/13       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 12            | 08/06/13       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 12            | 11/18/13       | 0.386                                  | <0.001   | 0.0412            | 0.0058            |                |
| MW - 12            | 12/08/13       | <0.00100                               | <0.001   | <0.00100          | <0.00300          |                |
| MW - 12            | 02/04/14       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 12            | 05/28/14       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 12            | 08/23/14       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 12            | 11/18/14       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 12            | 02/19/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 12            | 05/12/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 12            | 08/18/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 12            | 11/23/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
|                    |                |                                        |          |                   |                   |                |
| MW - 13            | 03/02/00       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 13            | 04/25/00       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 13            | 09/06/00       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 13            | 11/28/00       | 0.004                                  | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 13            | 02/21/01       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 13            | 05/31/01       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 13            | 08/23/01       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 13            | 11/21/01       | <0.001                                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 13            | 02/13/02       | 0.007                                  | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 13            | 06/12/02       | 0.115                                  | <0.001   | <0.001            | 0.013             | <0.001         |
| MW - 13            | 08/26/02       | 0.046                                  | <0.001   | <0.001            | 0.024             | <0.001         |
| MW - 13            | 11/21/02       | 0.010                                  | <0.001   | <0.001            | 0.045             | <0.001         |
| MW - 13            | 02/06/03       | <0.001                                 | <0.001   | <0.001            | 0.028             | <0.001         |
| MW - 13            | 05/07/03       | 0.003                                  | <0.001   | <0.001            | 0.019             | <0.001         |
| MW - 13            | 08/18/03       | 0.002                                  | <0.001   | <0.001            | 0.035             | <0.001         |
| MW - 13            | 12/01/03       | <0.001                                 | <0.001   | <0.001            | 0.018             | <0.001         |
| MW - 13            | 02/05/04       | 0.002                                  | <0.001   | 0.001             | 0.053             | <0.001         |
| MW - 13            | 05/05/04       | <0.001                                 | <0.001   | 0.001             | 0.002             | <0.001         |
| MW - 13            | 09/01/04       | <0.001                                 | <0.001   | 0.002             | 0.016             | <0.001         |
| MW - 13            | 12/15/04       | <0.001                                 | <0.001   | <0.001            | 0.002             |                |
| MW - 13            | 03/22/05       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 13            | 06/22/05       | <0.001                                 | <0.001   | <0.001            | 0.005             |                |
| MW - 13            | 09/21/05       | <0.001                                 | <0.001   | <0.001            | 0.003             |                |
| MW - 13            | 12/16/05       | <0.001                                 | <0.001   | <0.001            | 0.0074            |                |
| MW - 13            | 03/20/06       | 0.001                                  | <0.001   | 0.001             | 0.0106            |                |
| MW - 13            | 06/21/06       | 0.008                                  | <0.001   | 0.003             | 0.0064            |                |
| MW - 13            | 09/27/06       | 0.103                                  | <0.001   | 0.011             | 0.0115            |                |
| MW - 13            | 12/04/06       | 0.293                                  | <0.001   | 0.011             | 0.0094            |                |
| MW - 13            | 03/14/07       | 0.530                                  | <0.005   | 0.029             | 0.0161            |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030 |          |                   |                   |                |
|--------------------|----------------|------------------------|----------|-------------------|-------------------|----------------|
|                    |                | BENZENE                | TOLUENE  | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 13            | 05/29/07       | 0.496                  | <0.005   | <0.005            | <0.005            |                |
| MW - 13            | 08/30/07       | 0.609                  | <0.005   | 0.0201            | <0.005            |                |
| MW - 13            | 11/12/07       | 0.350                  | <0.005   | <0.005            | <0.005            |                |
| MW - 13            | 03/07/08       | 0.0279                 | <0.005   | <0.005            | <0.005            |                |
| MW - 13            | 06/02/08       | 0.662                  | <0.001   | 0.0173            | <0.010            |                |
| MW - 13            | 09/03/08       | 0.974                  | <0.005   | 0.0143            | 0.0206            |                |
| MW - 13            | 12/08/08       | 1.200                  | <0.005   | <0.005            | <0.005            |                |
| MW - 13            | 02/19/09       | 0.548                  | <0.005   | <0.005            | 0.0151            |                |
| MW - 13            | 05/20/09       | 0.667                  | <0.005   | 0.072             | 0.1920            |                |
| MW - 13            | 08/12/09       | 1.470                  | <0.005   | 0.047             | 0.1630            |                |
| MW - 13            | 11/25/09       | 1.420                  | <0.005   | <0.005            | <0.005            |                |
| MW - 13            | 02/11/10       | 1.920                  | <0.005   | <0.005            | <0.005            |                |
| MW - 13            | 05/17/10       | 0.666                  | <0.005   | <0.005            | <0.005            |                |
| MW - 13            | 08/16/10       | 1.810                  | <0.0200  | 0.0367            | <0.0200           |                |
| MW - 13            | 11/10/10       | 2.040                  | <0.0200  | <0.0200           | <0.0200           |                |
| MW - 13            | 02/28/11       | 2.160                  | <0.005   | 0.0426            | <0.005            |                |
| MW - 13            | 05/12/11       | 3.130                  | <0.0200  | 0.2550            | <0.0200           |                |
| MW - 13            | 08/15/11       | 0.738                  | <0.0200  | <0.0200           | <0.0200           |                |
| MW - 13            | 11/22/11       | 0.810                  | <0.0200  | 0.0714            | <0.0200           |                |
| MW - 13            | 02/28/12       | 0.347                  | 0.140    | 0.1750            | 0.4490            |                |
| MW - 13            | 05/17/12       | 0.0059                 | <0.001   | <0.001            | <0.001            |                |
| MW - 13            | 08/01/12       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 13            | 11/29/12       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 13            | 02/11/13       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 13            | 05/06/13       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 13            | 08/06/13       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 13            | 11/19/13       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 13            | 02/04/14       | <0.00100               | <0.00100 | <0.00100          | <0.00300          |                |
| MW - 13            | 05/28/14       | <0.00100               | <0.00100 | <0.00100          | <0.00300          |                |
| MW - 13            | 08/23/14       | <0.00100               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 13            | 11/18/14       | <0.00100               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 13            | 02/19/15       | <0.00100               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 13            | 05/12/15       | <0.00100               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 13            | 08/18/15       | <0.00100               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 13            | 11/23/15       | <0.00100               | <0.00100 | <0.00100          | <0.00100          |                |
|                    |                |                        |          |                   |                   |                |
| MW - 14            | 03/02/00       | 0.141                  | 0.032    | 0.056             | 0.038             | 0.008          |
| MW - 14            | 04/25/00       | 0.368                  | 0.045    | 0.106             | 0.061             | 0.017          |
| MW - 14            | 09/06/00       | 0.609                  | 0.015    | 0.124             | 0.024             | 0.020          |
| MW - 14            | 11/28/00       | 0.691                  | 0.022    | 0.107             | 0.038             | 0.034          |
| MW - 14            | 02/21/01       | 0.921                  | 0.061    | 0.194             | 0.114             | 0.088          |
| MW - 14            | 05/31/01       | 1.030                  | 0.223    | 0.172             | 0.339             |                |
| MW - 14            | 08/23/01       | 1.780                  | 0.865    | 0.315             | 0.491             | 0.235          |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030 |              |                   |                   |                |
|--------------------|----------------|------------------------|--------------|-------------------|-------------------|----------------|
|                    |                | BENZENE                | TOLUENE      | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 14            | 11/21/01       | <b>0.623</b>           | 0.301        | 0.131             | 0.162             | 0.068          |
| MW - 14            | 02/13/02       | <b>0.572</b>           | 0.414        | 0.142             | 0.213             | 0.093          |
| MW - 14            | 06/12/02       | <b>0.718</b>           | 0.470        | 0.144             | 0.187             | 0.087          |
| MW - 14            | 08/26/02       | <b>0.606</b>           | 0.355        | 0.147             | 0.188             | 0.089          |
| MW - 14            | 11/21/02       | <b>0.850</b>           | 0.666        | 0.178             | 0.350             | 0.175          |
| MW - 14            | 02/06/03       | <b>1.100</b>           | 0.651        | 0.256             | <b>0.450</b>      | <b>0.243</b>   |
| MW - 14            | 05/07/03       | <b>1.880</b>           | <b>1.180</b> | 0.463             | <b>0.839</b>      | <b>0.470</b>   |
| MW - 14            | 08/18/03       | <b>0.833</b>           | 0.242        | 0.235             | 0.366             | 0.213          |
| MW - 14            | 12/01/03       | <b>0.791</b>           | 0.319        | 0.211             | 0.397             | 0.191          |
| MW - 14            | 02/05/04       | <b>0.763</b>           | <b>0.819</b> | 0.226             | <b>0.492</b>      | <b>0.218</b>   |
| MW - 14            | 05/05/04       | <b>0.811</b>           | 0.234        | 0.233             | <b>0.580</b>      | <b>0.275</b>   |
| MW - 14            | 12/15/04       | <b>0.071</b>           | 0.019        | 0.021             | 0.078             |                |
| MW - 14            | 03/22/05       | <b>0.274</b>           | 0.017        | 0.049             | 0.313             |                |
| MW - 14            | 06/22/05       | <b>0.543</b>           | 0.283        | 0.379             | <b>1.130</b>      |                |
| MW - 14            | 09/21/05       | <b>0.413</b>           | 0.159        | 0.318             | <b>0.996</b>      |                |
| MW - 14            | 12/16/05       | <b>0.361</b>           | 0.279        | 0.291             | <b>0.956</b>      |                |
| MW - 14            | 03/20/06       | <b>0.405</b>           | 0.300        | 0.321             | <b>1.040</b>      |                |
| MW - 14            | 06/21/06       | <b>0.414</b>           | 0.352        | 0.322             | <b>1.060</b>      |                |
| MW - 14            | 09/27/06       | <b>0.063</b>           | 0.096        | 0.075             | 0.222             |                |
| MW - 14            | 12/04/06       | <b>0.249</b>           | 0.157        | 0.263             | <b>0.954</b>      |                |
| MW - 14            | 03/14/07       | <b>0.194</b>           | 0.292        | 0.220             | <b>0.751</b>      |                |
| MW - 14            | 05/29/07       | <b>0.212</b>           | 0.097        | 0.251             | <b>0.807</b>      |                |
| MW - 14            | 08/30/07       | <b>0.129</b>           | 0.0891       | 0.211             | <b>0.671</b>      |                |
| MW - 14            | 11/12/07       | <b>0.092</b>           | 0.0249       | 0.196             | <b>0.634</b>      |                |
| MW - 14            | 03/07/08       | <b>0.0338</b>          | <0.001       | 0.0609            | 0.464             |                |
| MW - 14            | 06/02/08       | <b>0.0920</b>          | 0.0310       | 0.1470            | 0.480             |                |
| MW - 14            | 09/03/08       | <b>0.0933</b>          | 0.0025       | 0.2080            | <b>0.787</b>      |                |
| MW - 14            | 12/08/08       | <b>0.0264</b>          | <0.001       | 0.0908            | 0.399             |                |
| MW - 14            | 02/19/09       | Not Sampled            |              |                   |                   |                |
| MW - 14            | 05/20/09       | <b>0.0456</b>          | 0.0053       | 0.1500            | 0.580             |                |
| MW - 14            | 08/12/09       | <b>0.0439</b>          | <0.001       | 0.1570            | <b>0.669</b>      |                |
| MW - 14            | 11/25/09       | <b>0.0181</b>          | <0.001       | 0.0102            | 0.167             |                |
| MW - 14            | 05/17/10       | <b>0.0107</b>          | <0.001       | 0.0681            | 0.248             |                |
| MW - 14            | 08/16/10       | <0.001                 | 0.0024       | 0.0372            | 0.134             |                |
| MW - 14            | 11/10/10       | 0.0057                 | <0.001       | 0.0127            | 0.0494            |                |
| MW - 14            | 02/28/11       | Not Sampled            |              |                   |                   |                |
| MW - 14            | 05/12/11       | <b>0.0116</b>          | <0.001       | 0.0575            | 0.1050            |                |
| MW - 14            | 08/15/11       | <0.001                 | <0.001       | <0.001            | <0.001            |                |
| MW - 14            | 11/22/11       | 0.0026                 | <0.001       | 0.0166            | 0.0318            |                |
| MW - 14            | 02/28/12       | <0.001                 | <0.001       | 0.0242            | 0.0670            |                |
| MW - 14            | 05/17/12       | <0.001                 | <0.001       | <0.001            | 0.0017            |                |
| MW - 14            | 08/01/12       | <0.001                 | <0.001       | <0.001            | <0.001            |                |
| MW - 14            | 11/29/12       | <0.001                 | <0.001       | 0.0035            | 0.0088            |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030 |          |                   |                   |                |
|--------------------|----------------|------------------------|----------|-------------------|-------------------|----------------|
|                    |                | BENZENE                | TOLUENE  | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 14            | 02/11/13       | <0.001                 | <0.001   | 0.0173            | 0.0444            |                |
| MW - 14            | 05/06/13       | <0.001                 | <0.001   | 0.00740           | 0.0204            |                |
| MW - 14            | 08/06/13       | <0.001                 | <0.001   | 0.0169            | 0.0473            |                |
| MW - 14            | 11/19/13       | 0.0019                 | <0.001   | <0.001            | <0.00300          |                |
| MW - 14            | 02/04/14       | 0.00130                | <0.00100 | 0.00160           | 0.0219            |                |
| MW - 14            | 05/28/14       | <0.00100               | <0.00100 | <0.00100          | 0.0158            |                |
| MW - 14            | 08/23/14       | <0.00100               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 14            | 11/18/14       | <0.00100               | <0.00100 | <0.00100          | 0.0412            |                |
| MW - 14            | 02/19/15       | <0.00100               | <0.00100 | 0.00390           | 0.0254            |                |
| MW - 14            | 05/12/15       | 0.00210                | <0.00100 | 0.00850           | 0.0445            |                |
| MW - 14            | 08/18/15       | <0.00100               | <0.00100 | <0.00100          | 0.0126            |                |
| MW - 14            | 11/23/15       | <0.00100               | <0.00100 | 0.00190           | 0.0183            |                |
|                    |                |                        |          |                   |                   |                |
| MW - 15            | 03/02/00       | <0.001                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 15            | 04/25/00       | <b>0.649</b>           | <0.001   | <0.001            | 0.018             | 0.019          |
| MW - 15            | 09/06/00       | <b>0.010</b>           | <0.001   | 0.003             | 0.024             | <0.001         |
| MW - 15            | 11/28/00       | <b>1.380</b>           | <0.010   | <0.010            | 0.031             | <0.010         |
| MW - 15            | 02/21/01       | <b>2.870</b>           | <0.010   | 0.011             | 0.058             | <0.010         |
| MW - 15            | 05/31/01       | <b>3.830</b>           | <0.001   | 0.049             | 0.101             |                |
| MW - 15            | 08/23/01       | <b>4.600</b>           | 0.001    | 0.077             | 0.075             | 0.009          |
| MW - 15            | 11/21/01       | <b>4.000</b>           | 0.012    | 0.117             | 0.084             | 0.039          |
| MW - 15            | 02/13/02       | <b>2.910</b>           | 0.020    | 0.128             | 0.063             | 0.060          |
| MW - 15            | 06/12/02       | <b>5.430</b>           | 0.004    | 0.216             | 0.032             | 0.057          |
| MW - 15            | 08/26/02       | <b>4.590</b>           | 0.002    | 0.183             | 0.230             | 0.300          |
| MW - 15            | 11/21/02       | <b>8.130</b>           | 0.002    | 0.384             | 0.009             | <0.001         |
| MW - 15            | 02/06/03       | <b>2.070</b>           | <0.001   | 0.041             | 0.010             | <0.001         |
| MW - 15            | 05/07/03       | <b>1.890</b>           | <0.001   | 0.006             | <0.001            | <0.001         |
| MW - 15            | 08/18/03       | <b>1.910</b>           | 0.001    | 0.122             | 0.006             | <0.001         |
| MW - 15            | 12/01/03       | <b>1.190</b>           | <0.001   | 0.057             | 0.006             | <0.001         |
| MW - 15            | 02/05/04       | <b>3.680</b>           | 0.016    | 0.191             | 0.043             | 0.016          |
| MW - 15            | 05/05/04       | <b>1.700</b>           | 0.026    | 0.085             | 0.030             | 0.027          |
| MW - 15            | 12/15/04       | <b>0.545</b>           | <0.0200  | <0.0200           | <0.0200           |                |
| MW - 15            | 03/22/05       | <b>2.380</b>           | 0.057    | 0.163             | 0.140             |                |
| MW - 15            | 06/22/05       | <b>7.790</b>           | 0.125    | 0.427             | 0.528             |                |
| MW - 15            | 09/21/05       | <b>4.470</b>           | <0.1     | 0.241             | 0.303             |                |
| MW - 15            | 12/16/05       | <b>5.650</b>           | 0.103    | 0.273             | 0.275             |                |
| MW - 15            | 03/20/06       | <b>4.720</b>           | <0.2     | 0.217             | 0.337             |                |
| MW - 15            | 06/21/06       | <b>3.060</b>           | <0.2     | <0.2              | <0.2              |                |
| MW - 15            | 09/27/06       | <b>0.806</b>           | <0.02    | 0.031             | 0.065             |                |
| MW - 15            | 12/04/06       | <b>2.950</b>           | <0.02    | 0.224             | 0.346             |                |
| MW - 15            | 03/14/07       | <b>1.82</b>            | <0.05    | 0.144             | 0.138             |                |
| MW - 15            | 05/29/07       | <b>3.73</b>            | <0.2     | <0.2              | <0.2              |                |
| MW - 15            | 08/30/07       | <b>2.330</b>           | <0.002   | 0.184             | 0.175             |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030 |          |                   |                   |                |
|--------------------|----------------|------------------------|----------|-------------------|-------------------|----------------|
|                    |                | BENZENE                | TOLUENE  | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 15            | 11/12/07       | 4.370                  | <0.05    | 0.487             | 0.621             |                |
| MW - 15            | 03/07/08       | 0.556                  | <0.05    | <0.05             | 0.135             |                |
| MW - 15            | 06/02/08       | 1.880                  | <0.010   | 0.164             | 0.210             |                |
| MW - 15            | 09/03/08       | 4.310                  | <0.0200  | 0.348             | 0.387             |                |
| MW - 15            | 12/08/08       | 2.870                  | <0.0200  | 0.230             | 0.181             |                |
| MW - 15            | 02/19/09       | 0.673                  | <0.005   | 0.0472            | 0.0094            |                |
| MW - 15            | 05/20/09       | 2.050                  | <0.005   | 0.2190            | 0.1430            |                |
| MW - 15            | 08/12/09       | 0.510                  | <0.005   | 0.0523            | 0.0653            |                |
| MW - 15            | 11/25/09       | 1.390                  | <0.005   | 0.0820            | 0.0206            |                |
| MW - 15            | 02/11/10       | 1.640                  | <0.005   | 0.1410            | 0.0821            |                |
| MW - 15            | 05/21/10       | 0.787                  | <0.005   | 0.0366            | 0.0447            |                |
| MW - 15            | 08/16/10       | 0.819                  | <0.0100  | 0.0350            | 0.0217            |                |
| MW - 15            | 11/10/10       | 0.0785                 | <0.0100  | <0.0100           | <0.0100           |                |
| MW - 15            | 02/28/11       | 0.500                  | <0.0200  | <0.0200           | <0.0200           |                |
| MW - 15            | 05/12/11       | 4.210                  | <0.0200  | 0.3500            | 0.4040            |                |
| MW - 15            | 08/15/11       | 1.050                  | <0.0200  | <0.0200           | <0.0200           |                |
| MW - 15            | 11/22/11       | 1.490                  | <0.0200  | 0.0731            | 0.0676            |                |
| MW - 15            | 02/28/12       | 0.303                  | <0.0200  | 0.1470            | 0.4200            |                |
| MW - 15            | 05/17/12       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 15            | 08/01/12       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 15            | 11/29/12       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 15            | 02/11/13       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 15            | 05/06/13       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 15            | 08/06/13       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 15            | 11/19/13       | 0.0194                 | <0.001   | 0.0031            | <0.001            |                |
| MW - 15            | 12/08/13       | <0.00100               | <0.001   | 0.00710           | <0.00300          |                |
| MW - 15            | 02/04/14       | <0.00100               | <0.00100 | 0.00150           | <0.00300          |                |
| MW - 15            | 05/28/14       | 0.394                  | <0.00100 | 0.0130            | <0.00300          |                |
| MW - 15            | 08/23/14       | 0.0254                 | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 15            | 11/18/14       | 0.366                  | <0.00100 | 0.0249            | <0.00100          |                |
| MW - 15            | 02/19/15       | 0.164                  | <0.00100 | 0.0104            | <0.00100          |                |
| MW - 15            | 05/12/15       | <0.00100               | <0.00100 | <0.00100          | 0.00440           |                |
| MW - 15            | 08/18/15       | <0.00100               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 15            | 11/23/15       | <0.00100               | <0.00100 | <0.00100          | <0.00100          |                |
|                    |                |                        |          |                   |                   |                |
| MW - 16            | 01/10/03       | <0.001                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 16            | 05/07/03       | <0.001                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 16            | 08/18/03       | 0.008                  | 0.003    | <0.001            | 0.002             | <0.001         |
| MW - 16            | 12/01/03       | 0.014                  | 0.005    | 0.003             | 0.005             | 0.003          |
| MW - 16            | 02/05/04       | <0.001                 | <0.001   | <0.001            | <0.002            | <0.001         |
| MW - 16            | 05/05/04       | <0.001                 | <0.001   | <0.001            | <0.002            | <0.001         |
| MW - 16            | 12/15/04       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 03/22/05       | <0.001                 | <0.001   | <0.001            | <0.001            |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030                 |          |                   |                   |                |
|--------------------|----------------|----------------------------------------|----------|-------------------|-------------------|----------------|
|                    |                | BENZENE                                | TOLUENE  | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 16            | 06/22/05       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 09/21/05       | <0.005                                 | <0.005   | <0.005            | <0.005            |                |
| MW - 16            | 12/16/05       | <0.005                                 | <0.005   | <0.005            | <0.005            |                |
| MW - 16            | 03/20/06       | <0.005                                 | <0.005   | <0.005            | <0.005            |                |
| MW - 16            | 06/21/06       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 09/27/06       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 12/04/06       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 03/14/07       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 05/29/07       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 08/30/07       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 11/12/07       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 03/07/08       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 06/02/08       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 09/03/08       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 12/08/08       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 02/19/09       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 05/20/09       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 08/12/09       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 11/25/09       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 02/11/10       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 05/21/10       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 08/16/10       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 11/10/10       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 02/28/11       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 05/12/11       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 08/15/11       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 11/22/11       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 02/28/12       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 05/17/12       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 08/01/12       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 11/29/12       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 02/11/13       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 05/06/13       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 08/06/13       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 11/19/13       | <0.001                                 | <0.001   | <0.001            | <0.001            |                |
| MW - 16            | 02/04/14       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 05/28/14       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 08/23/14       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 11/18/14       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 16            | 02/19/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 05/12/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 08/18/15       | Not Sampled on Current Sample Schedule |          |                   |                   |                |
| MW - 16            | 11/23/15       | <0.00100                               | <0.00100 | <0.00100          | <0.00100          |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030 |          |                   |                   |                |
|--------------------|----------------|------------------------|----------|-------------------|-------------------|----------------|
|                    |                | BENZENE                | TOLUENE  | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| MW - 17            | 01/10/03       | <0.001                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 17            | 05/07/03       | <0.001                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 17            | 08/18/03       | <0.001                 | <0.001   | <0.001            | <0.001            | <0.001         |
| MW - 17            | 12/01/03       | <0.001                 | <0.001   | <0.001            | <0.002            | <0.001         |
| MW - 17            | 02/05/04       | <0.001                 | <0.001   | <0.001            | <0.002            | <0.001         |
| MW - 17            | 05/05/04       | <0.001                 | <0.001   | <0.001            | <0.002            | <0.001         |
| MW - 17            | 09/01/04       | <0.001                 | <0.001   | <0.001            | <0.002            | <0.001         |
| MW - 17            | 12/15/04       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 17            | 03/22/05       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 17            | 06/22/05       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 17            | 09/21/05       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 17            | 12/16/05       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 17            | 03/20/06       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 17            | 06/21/06       | Not Sampled            |          |                   |                   |                |
| MW - 17            | 08/09/06       | Plugged and Abandoned  |          |                   |                   |                |
| MW - 18            | 08/12/09       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 11/25/09       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 02/11/10       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 05/17/10       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 08/16/10       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 11/10/10       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 02/28/11       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 05/12/11       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 08/15/11       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 11/22/11       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 02/28/12       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 05/17/12       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 08/01/12       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 11/29/12       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 02/11/13       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 05/06/13       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 08/06/13       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 11/19/13       | <0.001                 | <0.001   | <0.001            | <0.001            |                |
| MW - 18            | 02/04/14       | <0.00100               | <0.00100 | <0.00100          | <0.00300          |                |
| MW - 18            | 05/28/14       | <0.00100               | <0.00100 | <0.00100          | <0.00300          |                |
| MW - 18            | 08/23/14       | <0.00100               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 18            | 11/18/14       | <0.00100               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 18            | 02/19/15       | <0.00100               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 18            | 05/12/15       | <0.00100               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 18            | 08/18/15       | <0.00100               | <0.00100 | <0.00100          | <0.00100          |                |
| MW - 18            | 11/23/15       | <0.00100               | <0.00100 | <0.00100          | <0.00100          |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030         |         |                   |                   |                |
|--------------------|----------------|--------------------------------|---------|-------------------|-------------------|----------------|
|                    |                | BENZENE                        | TOLUENE | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
|                    |                |                                |         |                   |                   |                |
| RW - 1             | 03/22/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 06/22/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 09/21/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 12/16/05       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 03/20/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 06/21/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 09/27/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 12/04/06       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 03/14/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 05/29/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 08/30/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 11/12/07       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 03/07/08       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 06/02/08       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 09/03/08       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 12/10/08       | 10.10                          | 2.440   | 0.792             | 1.500             |                |
| RW - 1             | 02/19/09       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 05/20/09       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 08/12/09       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 11/25/09       | 11.10                          | 5.480   | 0.946             | 2.270             |                |
| RW - 1             | 02/11/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 05/17/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 08/16/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 11/10/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 02/28/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 05/12/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 08/15/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 11/22/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 02/28/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 05/17/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 08/01/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 11/29/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 02/11/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 05/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 08/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 11/18/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 02/04/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 05/28/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 08/23/14       | 2.62                           | 0.746   | 0.384             | 0.797             |                |
| RW - 1             | 11/18/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 02/19/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 05/12/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030         |         |                   |                   |                |
|--------------------|----------------|--------------------------------|---------|-------------------|-------------------|----------------|
|                    |                | BENZENE                        | TOLUENE | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| RW - 1             | 08/18/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 1             | 11/23/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
|                    |                |                                |         |                   |                   |                |
| RW - 2             | 08/16/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 11/10/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 02/28/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 05/12/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 08/15/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 11/22/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 02/28/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 05/17/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 08/01/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 11/29/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 02/11/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 05/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 08/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 11/18/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 02/04/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 05/28/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 08/23/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 11/18/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 02/19/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 05/12/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 08/18/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 2             | 11/23/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
|                    |                |                                |         |                   |                   |                |
| RW - 3             | 08/16/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 11/10/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 02/28/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 05/12/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 08/15/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 11/22/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 02/28/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 05/17/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 08/01/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 11/29/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 02/11/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 05/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 08/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 11/18/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 02/04/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 05/28/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 08/23/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |

TABLE 2

## HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

*All Concentrations are reported in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | EPA SW 846-8021B, 5030         |         |                   |                   |                |
|--------------------|----------------|--------------------------------|---------|-------------------|-------------------|----------------|
|                    |                | BENZENE                        | TOLUENE | ETHYL-<br>BENZENE | m, p -<br>XYLENES | o -<br>XYLENES |
| RW - 3             | 11/18/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 02/19/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 05/12/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 08/18/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 3             | 11/23/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
|                    |                |                                |         |                   |                   |                |
| RW - 4             | 08/16/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 11/10/10       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 02/28/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 05/12/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 08/15/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 11/22/11       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 02/28/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 05/17/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 08/01/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 11/29/12       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 02/11/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 05/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 08/06/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 11/18/13       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 02/04/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 05/28/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 08/23/14       | 3.37                           | 2.35    | 0.735             | 1.60              |                |
| RW - 4             | 11/18/14       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 02/19/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 05/12/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 08/18/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
| RW - 4             | 11/23/15       | Not Sampled Due to PSH in Well |         |                   |                   |                |
|                    |                |                                |         |                   |                   |                |

TABLE 3

## HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM 97-04 TOWNSEND

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L

| SAMPLE LOCATION                                                                                 | SAMPLE DATE | EPA SW846-8270C, 3510                              |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
|-------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------|----------------|------------|--------------------|----------------|----------------------|--------------------|----------------------|-------------|-----------------------|--------------|------------|------------------------|--------------|------------|-------------|---------------------|---------------------|--------------|--|
|                                                                                                 |             | Acenaphthene                                       | Acenaphthylene | Anthracene | Benzo[a]anthracene | Benzo[a]pyrene | Benzo[b]fluoranthene | Benzo[ghi]perylene | Benzo[k]fluoranthene | Chrysene    | Dibenz[a,h]anthracene | Fluoranthene | Fluorene   | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene     | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene | Dibenzofuran |  |
| Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A. |             | ---                                                | ---            | 0.001 mg/L | 0.0001 mg/L        | 0.0007 mg/L    | 0.001 mg/L           | ---                | 0.001 mg/L           | 0.0002 mg/L | 0.0003 mg/L           | 0.001 mg/L   | 0.001 mg/L | 0.0004 mg/L            | 0.001 mg/L   | 0.001 mg/L | 0.03 mg/L   |                     |                     | ---          |  |
| MW-2                                                                                            | 12/10/08    | <0.000922                                          | <0.000922      | <0.000922  | <0.000922          | <0.000922      | <0.000922            | <0.000922          | <0.000922            | 0.0109      | <0.000922             | <0.000922    | 0.0429     | <0.000922              | 0.0587       | <0.000922  | 0.232       | 0.354               | 0.417               | 0.0377       |  |
|                                                                                                 | 11/25/09    | <0.000922                                          | <0.000922      | <0.000922  | <0.000922          | <0.000922      | <0.000922            | <0.000922          | <0.000922            | <0.000922   | <0.000922             | <0.000922    | 0.0276     | <0.000922              | 0.0378       | <0.000922  | 0.207       | 0.274               | 0.337               | 0.0267       |  |
|                                                                                                 | 11/10/10    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
|                                                                                                 | 12/15/11    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
|                                                                                                 | 11/29/12    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
|                                                                                                 | 11/18/13    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
|                                                                                                 | 11/18/14    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
|                                                                                                 | 11/23/15    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
|                                                                                                 |             |                                                    |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
| MW-3                                                                                            | 12/10/08    | <0.000184                                          | 0.00934        | <0.000184  | <0.000184          | <0.000184      | <0.000184            | <0.000184          | <0.000184            | 0.00578     | <0.000184             | <0.000184    | 0.024      | <0.000184              | 0.0368       | <0.000184  | 0.192       | 0.348               | 0.409               | 0.0228       |  |
|                                                                                                 | 11/25/09    | <0.0370                                            | <0.0370        | <0.0370    | <0.0370            | <0.0370        | <0.0370              | <0.0370            | <0.0370              | <0.0370     | <0.0370               | <0.0370      | 0.788      | <0.0370                | 1.06         | <0.0370    | 3.87        | 7.02                | 8.74                | 0.626        |  |
|                                                                                                 | 11/10/10    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
|                                                                                                 | 12/15/11    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
|                                                                                                 | 11/29/12    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
|                                                                                                 | 11/18/13    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
|                                                                                                 | 11/18/14    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
|                                                                                                 | 11/23/15    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
|                                                                                                 |             |                                                    |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
| MW-4                                                                                            | 12/10/08    | <0.000184                                          | <0.000184      | <0.000184  | <0.000184          | <0.000184      | <0.000184            | <0.000184          | <0.000184            | <0.000184   | <0.000184             | <0.000184    | 0.0039     | <0.000184              | 0.00376      | <0.000184  | 0.0668      | 0.0435              | 0.0423              | 0.00414      |  |
|                                                                                                 | 11/25/09    | <0.000917                                          | <0.000917      | <0.000917  | <0.000917          | <0.000917      | <0.000917            | <0.000917          | <0.000917            | <0.000917   | <0.000917             | <0.000917    | 0.0143     | <0.000917              | 0.0181       | <0.000917  | 0.103       | 0.118               | 0.089               | 0.0123       |  |
|                                                                                                 | 11/10/10    | <0.000184                                          | <0.000184      | <0.000184  | <0.000184          | <0.000184      | <0.000184            | <0.000184          | <0.000184            | <0.000184   | <0.000184             | <0.000184    | 0.00338    | <0.000184              | 0.00404      | <0.000184  | 0.0279      | 0.035               | 0.0188              | 0.00247      |  |
|                                                                                                 | 12/15/11    | <0.000187                                          | <0.000187      | <0.000187  | <0.000187          | <0.000187      | <0.000187            | <0.000187          | <0.000187            | <0.000187   | <0.000187             | <0.000187    | 0.00322    | <0.000187              | 0.00423      | <0.000187  | 0.0469      | 0.0371              | 0.0317              | 0.00409      |  |
|                                                                                                 | 11/29/12    | <0.000190                                          | <0.000190      | <0.000190  | <0.000190          | <0.000190      | <0.000190            | <0.000190          | <0.000190            | 0.00306     | <0.000190             | <0.000190    | 0.0081     | <0.000190              | 0.0123       | <0.000190  | 0.0274      | 0.0289              | 0.0235              | 0.00877      |  |
|                                                                                                 | 11/19/13    | <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  | 0.0877      | 0.109               | 0.121               | 12.6         |  |
|                                                                                                 | 11/18/14    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
|                                                                                                 | 11/23/15    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
|                                                                                                 |             |                                                    |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |
| MW-5                                                                                            | 12/10/08    | <0.000935                                          | <0.000935      | <0.000935  | <0.000935          | <0.000935      | <0.000935            | <0.000935          | <0.000935            | <0.000935   | <0.000935             | <0.000935    | <0.000935  | <0.000935              | 0.0424       | <0.000935  | 0.192       | 0.301               | 0.346               | 0.0316       |  |
|                                                                                                 | 11/25/09    | <0.000184                                          | <0.000184      | <0.000184  | <0.000184          | <0.000184      | <0.000184            | <0.000184          | <0.000184            | <0.000184   | <0.000184             | <0.000184    | 0.00909    | <0.000184              | 0.0104       | <0.000184  | 0.0905      | 0.0931              | 0.107               | 0.00848      |  |
|                                                                                                 | 11/10/10    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |  |

TABLE 3

## HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM 97-04 TOWNSEND

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L.

| SAMPLE LOCATION                                                                                 | SAMPLE DATE | EPA SW846-8270C, 3510                              |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|-------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------|----------------|------------|--------------------|----------------|----------------------|--------------------|----------------------|-------------|-----------------------|--------------|------------|------------------------|--------------|------------|-------------|---------------------|---------------------|--------------|-----------|---------|
|                                                                                                 |             | Acenaphthene                                       | Acenaphthylene | Anthracene | Benzo[a]anthracene | Benzo[a]pyrene | Benzo[b]fluoranthene | Benzo[ghi]perylene | Benzo[k]fluoranthene | Chrysene    | Dibenz[a,h]anthracene | Fluoranthene | Fluorene   | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene     | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene | Dibenzofuran |           |         |
| Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A. |             | ---                                                | ---            | 0.001 mg/L | 0.0001 mg/L        | 0.0007 mg/L    | 0.001 mg/L           | ---                | 0.001 mg/L           | 0.0002 mg/L | 0.0003 mg/L           | 0.001 mg/L   | 0.001 mg/L | 0.0004 mg/L            | 0.001 mg/L   | 0.001 mg/L | 0.03 mg/L   |                     |                     | ---          |           |         |
|                                                                                                 | 12/15/11    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 11/29/12    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 11/18/13    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 11/18/14    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 11/23/15    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 |             |                                                    |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
| MW-6                                                                                            | 12/10/08    | <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              | 0.00706      | <0.000184  | 0.0921      | 0.0687              | 0.0744              | 0.00635      |           |         |
|                                                                                                 | 11/25/09    | <0.000922                                          | <0.000922      | <0.000922  | <0.000922          | <0.000922      | <0.000922            | <0.000922          | <0.000922            | <0.000922   | <0.000922             | <0.000922    | <0.000922  | <0.000922              | 0.0528       | <0.000922  | 0.0648      | <0.000922           | 0.294               | 0.498        | 0.569     | 0.0467  |
|                                                                                                 | 11/10/10    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 12/15/11    | <0.000190                                          | <0.000190      | <0.000190  | <0.000190          | <0.000190      | <0.000190            | <0.000190          | <0.000190            | <0.000190   | <0.000190             | <0.000190    | <0.000190  | <0.000190              | 0.00132      | <0.000190  | 0.00137     | <0.000190           | 0.0179              | 0.0212       | 0.0179    | 0.00158 |
|                                                                                                 | 11/29/12    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 11/18/13    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 11/18/14    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 11/23/15    | <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-7                                                                                            | 12/08/08    | <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    | <0.000184  | 0.0002      | <0.000184           | <0.000184           | <0.000184    | <0.000184 |         |
|                                                                                                 | 11/25/09    | <0.000183                                          | <0.000183      | <0.000183  | <0.000183          | <0.000183      | <0.000183            | <0.000183          | <0.000183            | <0.000183   | <0.000183             | <0.000183    | <0.000183  | <0.000183              | <0.000183    | <0.000183  | <0.000183   | <0.000183           | <0.000183           | <0.000183    | <0.000183 |         |
|                                                                                                 | 11/10/10    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 12/15/11    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 11/29/12    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 11/19/13    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 11/18/14    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 |             |                                                    |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
| MW-9                                                                                            | 12/10/08    | <0.000926                                          | <0.000926      | <0.000926  | <0.000926          | <0.000926      | <0.000926            | <0.000926          | <0.000926            | <0.000926   | <0.000926             | <0.000926    | 0.0134     | <0.000926              | 0.016        | <0.000926  | 0.102       | 0.122               | 0.138               | 0.0127       |           |         |
|                                                                                                 | 11/25/09    | <0.000917                                          | <0.000917      | <0.000917  | <0.000917          | <0.000917      | <0.000917            | <0.000917          | <0.000917            | <0.000917   | <0.000917             | <0.000917    | 0.0250     | <0.000917              | 0.0315       | <0.000917  | 0.125       | 0.221               | 0.253               | 0.0201       |           |         |
|                                                                                                 | 11/10/10    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 12/15/11    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 11/29/12    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |
|                                                                                                 | 11/18/13    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |           |         |

TABLE 3

## HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM 97-04 TOWNSEND

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER GW-0294

*All water concentrations are reported in mg/L.*

| SAMPLE LOCATION                                                                                 | SAMPLE DATE | EPA SW846-8270C, 3510                              |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|-------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------|----------------|------------|--------------------|----------------|----------------------|--------------------|----------------------|-------------|-----------------------|--------------|------------|------------------------|--------------|------------|-------------|---------------------|---------------------|--------------|
|                                                                                                 |             | Acenaphthene                                       | Acenaphthylene | Anthracene | Benzo[a]anthracene | Benzo[a]pyrene | Benzo[b]fluoranthene | Benzo[ghi]perylene | Benzo[k]fluoranthene | Chrysene    | Dibenz[a,h]anthracene | Fluoranthene | Fluorene   | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene     | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene | Dibenzofuran |
| Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A. |             | ---                                                | ---            | 0.001 mg/L | 0.0001 mg/L        | 0.0007 mg/L    | 0.001 mg/L           | ---                | 0.001 mg/L           | 0.0002 mg/L | 0.0003 mg/L           | 0.001 mg/L   | 0.001 mg/L | 0.0004 mg/L            | 0.001 mg/L   | 0.001 mg/L | 0.03 mg/L   |                     |                     | ---          |
|                                                                                                 | 11/18/14    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/23/15    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                                    |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-10                                                                                           | 12/08/08    | <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    | <0.000184  | <0.000184   | <0.000184           | <0.000184           |              |
|                                                                                                 | 11/25/09    | <0.000183                                          | <0.000183      | <0.000183  | <0.000183          | <0.000183      | <0.000183            | <0.000183          | <0.000183            | <0.000183   | <0.000183             | <0.000183    | <0.000183  | <0.000183              | <0.000183    | <0.000183  | <0.000183   | <0.000183           | <0.000183           |              |
|                                                                                                 | 11/10/10    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 12/15/11    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/29/12    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/13    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/14    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                                    |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-11                                                                                           | 12/08/08    | <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    | <0.000184  | <0.000184   | <0.000184           | <0.000184           |              |
|                                                                                                 | 11/25/09    | <0.000183                                          | <0.000183      | <0.000183  | <0.000183          | <0.000183      | <0.000183            | <0.000183          | <0.000183            | <0.000183   | <0.000183             | <0.000183    | <0.000183  | <0.000183              | <0.000183    | <0.000183  | <0.000183   | <0.000183           | <0.000183           |              |
|                                                                                                 | 11/10/10    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 12/15/11    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/29/12    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/13    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/14    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                                    |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-12                                                                                           | 12/08/08    | <0.000183                                          | <0.000183      | <0.000183  | <0.000183          | <0.000183      | <0.000183            | <0.000183          | <0.000183            | <0.000183   | <0.000183             | <0.000183    | <0.000183  | <0.000183              | <0.000183    | <0.000183  | <0.000183   | <0.000183           | <0.000183           |              |
|                                                                                                 | 11/25/09    | <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    | <0.000184  | <0.000184   | <0.000184           | <0.000184           |              |
|                                                                                                 | 11/10/10    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 12/15/11    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/29/12    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/13    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/14    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                                    |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |

TABLE 3

## HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM 97-04 TOWNSEND

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER GW-0294

*All water concentrations are reported in mg/L.*

| SAMPLE LOCATION                                                                                 | SAMPLE DATE | EPA SW846-8270C, 3510                              |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|-------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------|----------------|------------|--------------------|----------------|----------------------|--------------------|----------------------|-------------|-----------------------|--------------|------------|------------------------|--------------|------------|-------------|---------------------|---------------------|--------------|
|                                                                                                 |             | Acenaphthene                                       | Acenaphthylene | Anthracene | Benzo[a]anthracene | Benzo[a]pyrene | Benzo[b]fluoranthene | Benzo[ghi]perylene | Benzo[k]fluoranthene | Chrysene    | Dibenz[a,h]anthracene | Fluoranthene | Fluorene   | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene     | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene | Dibenzofuran |
| Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A. |             | ---                                                | ---            | 0.001 mg/L | 0.0001 mg/L        | 0.0007 mg/L    | 0.001 mg/L           | ---                | 0.001 mg/L           | 0.0002 mg/L | 0.0003 mg/L           | 0.001 mg/L   | 0.001 mg/L | 0.0004 mg/L            | 0.001 mg/L   | 0.001 mg/L | 0.03 mg/L   |                     | ---                 |              |
| MW-13                                                                                           | 12/08/08    | <0.000184                                          | <0.000184      | <0.000184  | <0.000184          | <0.000184      | <0.000184            | <0.000184          | <0.000184            | <0.000184   | <0.000184             | <0.000184    | 0.000294   | <0.000184              | <0.000184    | <0.000184  | <0.000184   | <0.000184           | <0.000184           | 0.00116      |
|                                                                                                 | 11/25/09    | <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    | <0.000184  | <0.000184   | <0.000184           | <0.000184           | 0.000638     |
|                                                                                                 | 11/10/10    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 12/15/11    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/29/12    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/19/13    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/14    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                                    |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-14                                                                                           | 12/08/08    | <0.000185                                          | <0.000185      | <0.000185  | <0.000185          | <0.000185      | <0.000185            | <0.000185          | <0.000185            | <0.000185   | <0.000185             | <0.000185    | 0.000417   | <0.000185              | 0.000311     | <0.000185  | 0.00328     | 0.00314             | 0.00298             | 0.000355     |
|                                                                                                 | 11/25/09    | <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    | <0.000184  | 0.00605     | 0.00516             | 0.00321             | <0.000184    |
|                                                                                                 | 11/10/10    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 12/15/11    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/29/12    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/19/13    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/14    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                                    |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-15                                                                                           | 12/08/08    | <0.000184                                          | <0.000184      | <0.000184  | <0.000184          | <0.000184      | <0.000184            | <0.000184          | <0.000184            | <0.000184   | <0.000184             | <0.000184    | 0.000558   | <0.000184              | 0.000384     | <0.000184  | 0.00993     | 0.00525             | 0.00386             | 0.000687     |
|                                                                                                 | 11/25/09    | <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    | <0.000184  | 0.00209     | 0.00101             | <0.000184           | <0.000184    |
|                                                                                                 | 11/10/10    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 12/15/11    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/29/12    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/19/13    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/14    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                                    |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-16                                                                                           | 12/08/08    | <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    | <0.000184  | <0.000184   | <0.000184           | <0.000184           | <0.000184    |
|                                                                                                 | 11/25/09    | <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    | <0.000184  | <0.000184   | <0.000184           | <0.000184           | <0.000184    |
|                                                                                                 | 11/10/10    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 12/15/11    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/29/12    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |

TABLE 3

## HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM 97-04 TOWNSEND

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER GW-0294

*All water concentrations are reported in mg/L.*

| SAMPLE LOCATION                                                                                 | SAMPLE DATE | EPA SW846-8270C, 3510                              |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|-------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------|----------------|------------|--------------------|----------------|----------------------|--------------------|----------------------|-------------|-----------------------|--------------|------------|------------------------|--------------|------------|-------------|---------------------|---------------------|--------------|
|                                                                                                 |             | Acenaphthene                                       | Acenaphthylene | Anthracene | Benzo[a]anthracene | Benzo[a]pyrene | Benzo[b]fluoranthene | Benzo[ghi]perylene | Benzo[k]fluoranthene | Chrysene    | Dibenz[a,h]anthracene | Fluoranthene | Fluorene   | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene     | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene | Dibenzofuran |
| Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A. |             | ---                                                | ---            | 0.001 mg/L | 0.0001 mg/L        | 0.0007 mg/L    | 0.001 mg/L           | ---                | 0.001 mg/L           | 0.0002 mg/L | 0.0003 mg/L           | 0.001 mg/L   | 0.001 mg/L | 0.0004 mg/L            | 0.001 mg/L   | 0.001 mg/L | 0.03 mg/L   |                     |                     | ---          |
|                                                                                                 | 11/19/13    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/14    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| MW-18                                                                                           | 11/25/09    | <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    | <0.000184  | <0.000184   | <0.000184           | <0.000184           |              |
|                                                                                                 | 11/10/10    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 12/31/11    | <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    | <0.000184  | <0.000184   | <0.000184           | 0.000262            |              |
|                                                                                                 | 11/29/12    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/19/13    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/14    | <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           |              |
|                                                                                                 | 11/23/15    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| RW-1                                                                                            | 12/10/08    | <0.000184                                          | <0.000184      | <0.000184  | <0.000184          | <0.000184      | <0.000184            | <0.000184          | <0.000184            | <0.000184   | <0.000184             | <0.000184    | 0.0085     | <0.000184              | 0.0104       | <0.000184  | 0.075       | 0.0857              | 0.0912              | 0.00817      |
|                                                                                                 | 11/25/09    | <0.000184                                          | <0.000184      | <0.000184  | <0.000184          | <0.000184      | <0.000184            | <0.000184          | <0.000184            | <0.000184   | <0.000184             | <0.000184    | 0.0120     | <0.000184              | 0.0131       | <0.000184  | 0.0961      | 0.113               | 0.126               | 0.0100       |
|                                                                                                 | 11/10/10    | Not Sampled as part of Quarterly Monitoring Event. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 12/15/11    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/29/12    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/13    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/14    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/23/15    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                                    |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| RW-2                                                                                            | 11/10/10    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 12/15/11    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/29/12    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/13    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/14    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/23/15    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                                    |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| RW-3                                                                                            | 11/10/10    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 12/15/11    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/29/12    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/13    | Not Sampled due to the presence of PSH.            |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |

TABLE 3

## HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER

PLAINS MARKETING, L.P.

TNM 97-04 TOWNSEND

LEA COUNTY, NEW MEXICO

NMOCD REFERENCE NUMBER GW-0294

*All water concentrations are reported in mg/L.*

| SAMPLE LOCATION                                                                                 | SAMPLE DATE | EPA SW846-8270C, 3510                   |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|-------------------------------------------------------------------------------------------------|-------------|-----------------------------------------|----------------|------------|--------------------|----------------|----------------------|--------------------|----------------------|-------------|-----------------------|--------------|------------|------------------------|--------------|------------|-------------|---------------------|---------------------|--------------|
|                                                                                                 |             | Acenaphthene                            | Acenaphthylene | Anthracene | Benzo[a]anthracene | Benzo[a]pyrene | Benzo[b]fluoranthene | Benzo[ghi]perylene | Benzo[k]fluoranthene | Chrysene    | Dibenz[a,h]anthracene | Fluoranthene | Fluorene   | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene     | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene | Dibenzofuran |
| Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A. |             | ---                                     | ---            | 0.001 mg/L | 0.0001 mg/L        | 0.0007 mg/L    | 0.001 mg/L           | ---                | 0.001 mg/L           | 0.0002 mg/L | 0.0003 mg/L           | 0.001 mg/L   | 0.001 mg/L | 0.0004 mg/L            | 0.001 mg/L   | 0.001 mg/L | 0.03 mg/L   |                     |                     | ---          |
|                                                                                                 | 11/18/14    | Not Sampled due to the presence of PSH. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/23/15    | Not Sampled due to the presence of PSH. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                         |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| RW-4                                                                                            | 11/10/10    | Not Sampled due to the presence of PSH. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 12/15/11    | Not Sampled due to the presence of PSH. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/29/12    | Not Sampled due to the presence of PSH. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/13    | Not Sampled due to the presence of PSH. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/18/14    | Not Sampled due to the presence of PSH. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 | 11/23/15    | Not Sampled due to the presence of PSH. |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                         |                |            |                    |                |                      |                    |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |

TABLE 4

## HISTORIC BTEX CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

## Results and Regulatory Guidelines in mg/L

| Sample Date                | Sample Location | Benzene  | Toluene  | Ethylbenzene | Xylenes  |
|----------------------------|-----------------|----------|----------|--------------|----------|
| NMOCD Regulatory Guideline |                 | 0.01     | 0.75     | 0.75         | 0.62     |
| 09/02/10                   | Post Carbon     | <0.001   | <0.001   | <0.001       | <0.001   |
| 09/10/10                   | Post Carbon     | <0.001   | <0.001   | <0.001       | <0.001   |
| 09/16/10                   | Post Carbon     | <0.001   | <0.001   | <0.001       | <0.001   |
| 09/23/10                   | Post Carbon     | <0.001   | <0.001   | <0.001       | <0.001   |
| 10/25/10                   | Post Carbon     | <0.001   | <0.001   | <0.001       | <0.001   |
| 11/23/10                   | Post Carbon     | 0.0047   | <0.001   | <0.001       | <0.001   |
| 01/28/11                   | Post Carbon     | <0.001   | <0.001   | <0.001       | <0.001   |
| 02/28/11                   | Post Carbon     | 0.0319   | 0.037    | 0.0338       | 0.0992   |
| 03/18/11                   | Post Carbon     | <0.001   | <0.001   | <0.001       | <0.001   |
| 04/28/11                   | Post Carbon     | <0.001   | <0.001   | <0.001       | <0.001   |
| 07/13/11                   | Post Carbon     | <0.001   | <0.001   | <0.001       | <0.001   |
| 07/28/11                   | Post Carbon     | <0.001   | <0.001   | <0.001       | <0.001   |
| 08/16/11                   | Post Carbon     | <0.001   | <0.001   | <0.001       | <0.001   |
| 09/21/11                   | Post Carbon     | <0.001   | <0.001   | <0.001       | <0.001   |
| 10/27/11                   | Post Carbon     | <0.001   | <0.001   | <0.001       | <0.001   |
| 11/17/11                   | Post Carbon     | <0.001   | <0.001   | <0.001       | <0.001   |
| 01/26/12                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 02/28/12                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 03/29/12                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 05/24/12                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 08/03/12                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 12/31/12                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 01/31/13                   | Post Carbon*    | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 02/27/13                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 03/28/13                   | Post Carbon**   | 0.114    | 0.0406   | 0.0059       | 0.059    |
| 04/12/13                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 06/24/13                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 07/29/13                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 08/29/13                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 09/25/13                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 10/30/13                   | Post Carbon     | <0.00100 | <0.00100 | <0.00300     | <0.00300 |
| 11/26/13                   | Post Carbon     | 0.00150  | <0.00100 | <0.00300     | <0.00300 |
| 12/26/13                   | Post Carbon     | <0.00100 | <0.00100 | <0.00300     | <0.00300 |
| 01/31/14                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.003   |
| 02/28/14                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00300 |
| 03/26/14                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00300 |
| 04/30/14                   | Post Carbon***  | 0.733    | 0.141    | 0.0997       | 0.316    |
| 05/13/14                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00300 |
| 05/27/14                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00300 |
| 06/24/14                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00300 |
| 07/28/14                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 08/27/14                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |

TABLE 4

## HISTORIC BTEX CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

## Results and Regulatory Guidelines in mg/L

| Sample Date                | Sample Location | Benzene  | Toluene  | Ethylbenzene | Xylenes  |
|----------------------------|-----------------|----------|----------|--------------|----------|
| NMOCD Regulatory Guideline |                 | 0.01     | 0.75     | 0.75         | 0.62     |
| 09/30/14                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 10/29/14                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 11/25/14                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 12/17/14                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 03/25/15                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 06/30/15                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 07/27/15                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 08/24/15                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 09/08/15                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 09/23/15                   | Post Carbon**** | 0.03570  | 0.0035   | 0.0021       | 0.0117   |
| 09/29/15                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 10/28/15                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
| 11/19/15                   | Post Carbon     | <0.00100 | <0.00100 | <0.00100     | <0.00100 |
|                            |                 |          |          |              |          |

Samples were not collected in the months of April, June, July, September, October, and November of 2012 due to bad weather and/or repairs.

Samples were not collected in the months of April and May 2013 due to system maintenance and repairs.

\*Resampled 12/31/12 Post Carbon sample due to WQCC Metal analytical results exceeding WQCC regulatory standards.

\*\*Resampled 3/12/13 Post Carbon sample due to inconsistent analytical results, results likely due to field error.

\*\*\*Resampled 5/13/14 Post Carbon sample due to inconsistent analytical results, results likely due to field error.

\*\*\*\*Resampled 9/29/15 Post Carbon sample due to inconsistent analytical results, results likely due to field error.

TABLE 5

## HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04 TOWNSEND  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L

| SAMPLE LOCATION                                                                                 | SAMPLE DATE | EPA SW846-8270C, 3510                                                   |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|-------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------------------|-------------|-----------------------|--------------|------------|------------------------|--------------|------------|-------------|---------------------|---------------------|--------------|
|                                                                                                 |             | 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 | Fluoranthene | Fluorene   | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene     | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene | Dibenzofuran |
| Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A. |             | ---                                                                     | ---            | 0.001 mg/L | 0.0001 mg/L        | 0.0007 mg/L    | 0.001 mg/L           | ---                  | 0.001 mg/L           | 0.0002 mg/L | 0.0003 mg/L           | 0.001 mg/L   | 0.001 mg/L | 0.0004 mg/L            | 0.001 mg/L   | 0.001 mg/L | 0.03 mg/L   |                     | ---                 |              |
| Post Carbon                                                                                     | 01/28/11    | <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   | <0.000188           | <0.000188           |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 02/28/11    | <0.000190                                                               | <0.000190      | <0.000190  | <0.000190          | <0.000190      | <0.000190            | <0.000190            | <0.000190            | <0.000190   | <0.000190             | <0.000190    | <0.000190  | <0.000190              | <0.000190    | <0.000190  | <0.000190   | <0.000190           | <0.000190           |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 03/18/11    | <0.000183                                                               | <0.000183      | <0.000183  | <0.000183          | <0.000183      | <0.000183            | <0.000183            | <0.000183            | <0.000183   | <0.000183             | <0.000183    | <0.000183  | <0.000183              | <0.000183    | <0.000183  | <0.000183   | <0.000183           | <0.000183           |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 04/28/11    | <0.0002                                                                 | <0.0002        | <0.0002    | <0.0002            | <0.0002        | <0.0002              | <0.0002              | <0.0002              | <0.0002     | <0.0002               | <0.0002      | <0.0002    | <0.0002                | <0.0002      | <0.0002    | <0.0002     | <0.0002             | <0.0002             |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 05/01/11    | PAH Analysis not conducted - System inoperable due to mechanical issues |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 06/01/11    | PAH Analysis not conducted due to elevated BTEX concentrations          |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 07/13/11    | PAH Analysis inadvertently not conducted                                |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 07/28/11    | PAH Analysis inadvertently not conducted                                |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 08/16/11    | <0.0002                                                                 | <0.0002        | <0.0002    | 0.000213           | <0.0002        | <0.0002              | <0.0002              | <0.0002              | <0.0002     | <0.0002               | 0.000216     | <0.0002    | <0.0002                | <0.0002      | 0.000238   | <0.0002     | <0.0002             | <0.0002             |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 09/21/11    | <0.0002                                                                 | <0.0002        | <0.0002    | <0.0002            | <0.0002        | <0.0002              | <0.0002              | <0.0002              | <0.0002     | <0.0002               | <0.0002      | <0.0002    | <0.0002                | <0.0002      | <0.0002    | 0.00101     | 0.00158             | 0.00102             |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 10/27/11    | <0.0002                                                                 | <0.0002        | <0.0002    | <0.0002            | <0.0002        | <0.0002              | <0.0002              | <0.0002              | <0.0002     | <0.0002               | <0.0002      | <0.0002    | <0.0002                | <0.0002      | <0.0002    | <0.0002     | <0.0002             | <0.0002             |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 11/17/11    | <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    | <0.000184  | <0.000184   | <0.000184           | <0.000184           |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 01/26/12    | <0.000183                                                               | <0.000183      | <0.000183  | <0.000183          | <0.000183      | <0.000183            | <0.000183            | <0.000183            | <0.000183   | <0.000183             | <0.000183    | <0.000183  | <0.000183              | <0.000183    | <0.000183  | <0.000183   | <0.000183           | <0.000183           |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 02/28/12    | <0.000183                                                               | <0.000183      | <0.000183  | <0.000183          | <0.000183      | <0.000183            | <0.000183            | <0.000183            | <0.000183   | <0.000183             | <0.000183    | <0.000183  | <0.000183              | <0.000183    | <0.000183  | <0.000183   | <0.000183           | <0.000183           |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 03/29/12    | <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           |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 05/24/12    | <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           |              |
|                                                                                                 |             |                                                                         |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |              |
| Post Carbon                                                                                     | 08/03/12    | <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           |              |

TABLE 5

## HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04 TOWNSEND  
LEA COUNTY, NEW MEXICO  
NMOC D REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L

| SAMPLE LOCATION                                                                                 | SAMPLE DATE | EPA SW846-8270C, 3510 |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
|-------------------------------------------------------------------------------------------------|-------------|-----------------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------------------|-------------|-----------------------|--------------|------------|------------------------|--------------|------------|-------------|---------------------|---------------------|
|                                                                                                 |             | 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 | Fluoranthene | Fluorene   | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene     | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene |
| Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A. |             | ---                   | ---            | 0.001 mg/L | 0.0001 mg/L        | 0.0007 mg/L    | 0.001 mg/L           | ---                  | 0.001 mg/L           | 0.0002 mg/L | 0.0003 mg/L           | 0.001 mg/L   | 0.001 mg/L | 0.0004 mg/L            | 0.001 mg/L   | 0.001 mg/L | 0.03 mg/L   |                     | ---                 |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 12/31/12    | <0.000199             | <0.000199      | <0.000199  | <0.000199          | <0.000199      | <0.000199            | <0.000199            | <0.000199            | <0.000199   | <0.000199             | <0.000199    | <0.000199  | <0.000199              | <0.000199    | <0.000199  | <0.000199   | <0.000199           | <0.000199           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon*                                                                                    | 01/31/13    | <0.000199             | <0.000199      | <0.000199  | <0.000199          | <0.000199      | <0.000199            | <0.000199            | <0.000199            | <0.000199   | <0.000199             | <0.000199    | <0.000199  | <0.000199              | <0.000199    | <0.000199  | <0.000199   | <0.000199           | <0.000199           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 02/27/13    | <0.000201             | <0.000201      | <0.000201  | <0.000201          | <0.000201      | <0.000201            | <0.000201            | <0.000201            | <0.000201   | <0.000201             | <0.000201    | <0.000201  | <0.000201              | <0.000201    | <0.000201  | <0.000201   | <0.000201           | <0.000201           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 04/12/13    | <0.000220             | <0.000220      | <0.000220  | <0.000220          | <0.000220      | <0.000220            | <0.000220            | <0.000220            | <0.000220   | <0.000220             | <0.000220    | <0.000220  | <0.000220              | <0.000220    | <0.000220  | <0.000220   | <0.000220           | <0.000220           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 06/24/13    | <0.000211             | <0.000211      | <0.000211  | <0.000211          | <0.000211      | <0.000211            | <0.000211            | <0.000211            | <0.000211   | <0.000211             | <0.000211    | <0.000211  | <0.000211              | <0.000211    | <0.000211  | <0.000211   | <0.000211           | <0.000211           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 07/29/13    | <0.000201             | <0.000201      | <0.000201  | <0.000201          | <0.000201      | <0.000201            | <0.000201            | <0.000201            | <0.000201   | <0.000201             | <0.000201    | <0.000201  | <0.000201              | <0.000201    | <0.000201  | <0.000201   | <0.000201           | <0.000201           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 08/29/13    | <0.000195             | <0.000195      | <0.000195  | <0.000195          | <0.000195      | <0.000195            | <0.000195            | <0.000195            | <0.000195   | <0.000195             | <0.000195    | <0.000195  | <0.000195              | <0.000195    | <0.000195  | <0.000195   | <0.000195           | <0.000195           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 09/25/13    | <0.000197             | <0.000197      | <0.000197  | <0.000197          | <0.000197      | <0.000197            | <0.000197            | <0.000197            | <0.000197   | <0.000197             | <0.000197    | <0.000197  | <0.000197              | <0.000197    | <0.000197  | <0.000197   | <0.000197           | <0.000197           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 10/30/13    | <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    | <0.000184  | <0.000184   | <0.000184           | <0.000184           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 11/26/13    | <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           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 12/26/13    | <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           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 01/31/14    | <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           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 02/28/14    | <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           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 03/26/14    | <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           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon**                                                                                   | 05/13/14    | <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           |
|                                                                                                 |             |                       |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |

TABLE 5

## HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04 TOWNSEND  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L

| SAMPLE LOCATION                                                                                 | SAMPLE DATE | EPA SW846-8270C, 3510                    |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
|-------------------------------------------------------------------------------------------------|-------------|------------------------------------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------------------|-------------|-----------------------|--------------|------------|------------------------|--------------|------------|-------------|---------------------|---------------------|
|                                                                                                 |             | 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 | Fluoranthene | Fluorene   | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene     | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene |
| Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A. |             | ---                                      | ---            | 0.001 mg/L | 0.0001 mg/L        | 0.0007 mg/L    | 0.001 mg/L           | ---                  | 0.001 mg/L           | 0.0002 mg/L | 0.0003 mg/L           | 0.001 mg/L   | 0.001 mg/L | 0.0004 mg/L            | 0.001 mg/L   | 0.001 mg/L | 0.03 mg/L   |                     | ---                 |
| Post Carbon                                                                                     | 05/27/14    | <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           |
|                                                                                                 |             |                                          |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 06/24/14    | PAH Analysis inadvertently not conducted |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
|                                                                                                 |             |                                          |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 07/28/14    | <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           |
|                                                                                                 |             |                                          |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 09/30/14    | <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           |
|                                                                                                 |             |                                          |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 10/29/14    | <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           |
|                                                                                                 |             |                                          |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 11/25/14    | <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           |
|                                                                                                 |             |                                          |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 12/17/14    | <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           |
|                                                                                                 |             |                                          |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 03/25/15    | <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           |
|                                                                                                 |             |                                          |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 06/30/15    | <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           |
|                                                                                                 |             |                                          |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 07/27/15    | <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           |
|                                                                                                 |             |                                          |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 09/23/15    | <0.000202                                | <0.000202      | <0.000202  | <0.000202          | <0.000202      | <0.000202            | <0.000202            | <0.000202            | <0.000202   | <0.000202             | <0.000202    | <0.000202  | <0.000202              | <0.000202    | <0.000202  | <0.000202   | <0.000202           | <0.000202           |
|                                                                                                 |             |                                          |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 09/29/15    | <0.000195                                | <0.000195      | <0.000195  | <0.000195          | <0.000195      | <0.000195            | <0.000195            | <0.000195            | <0.000195   | <0.000195             | <0.000195    | <0.000195  | <0.000195              | <0.000195    | <0.000195  | <0.000195   | <0.000195           | <0.000195           |
|                                                                                                 |             |                                          |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 10/28/15    | <0.000196                                | <0.000196      | <0.000196  | <0.000196          | <0.000196      | <0.000196            | <0.000196            | <0.000196            | <0.000196   | <0.000196             | <0.000196    | <0.000196  | <0.000196              | <0.000196    | <0.000196  | <0.000196   | <0.000196           | <0.000196           |
|                                                                                                 |             |                                          |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
| Post Carbon                                                                                     | 11/19/15    | <0.000195                                | <0.000195      | <0.000195  | <0.000195          | <0.000195      | <0.000195            | <0.000195            | <0.000195            | <0.000195   | <0.000195             | <0.000195    | <0.000195  | <0.000195              | <0.000195    | <0.000195  | <0.000195   | <0.000195           | <0.000195           |
|                                                                                                 |             |                                          |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |

Samples were not taken in the months of April, June, July, September, October, and November of 2012 due to bad weather and/or repairs.

TABLE 5

## HISTORIC POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
 TNM 97-04 TOWNSEND  
 LEA COUNTY, NEW MEXICO  
 NMOCD REFERENCE NUMBER GW-0294

All water concentrations are reported in mg/L

| SAMPLE LOCATION                                                                                 | SAMPLE DATE | EPA SW846-8270C, 3510 |                |            |                    |                |                      |                      |                      |             |                       |              |            |                        |              |            |             |                     |                     |
|-------------------------------------------------------------------------------------------------|-------------|-----------------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------------------|-------------|-----------------------|--------------|------------|------------------------|--------------|------------|-------------|---------------------|---------------------|
|                                                                                                 |             | 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 | Fluoranthene | Fluorene   | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene     | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene |
| Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A. |             | ---                   | ---            | 0.001 mg/L | 0.0001 mg/L        | 0.0007 mg/L    | 0.001 mg/L           | ---                  | 0.001 mg/L           | 0.0002 mg/L | 0.0003 mg/L           | 0.001 mg/L   | 0.001 mg/L | 0.0004 mg/L            | 0.001 mg/L   | 0.001 mg/L | 0.03 mg/L   |                     | ---                 |

\*Resampled Post Carbon due to WQCC Metal sample results of 12/31/12 exceeding WQCC standards.

\*\*Resampled Post Carbon sample due to inconsistent analytical results of 4/30/14, likely due to field error.

TABLE 6

## HISTORIC WQCC METALS CONCENTRATIONS IN EFFLUENT GROUNDWATER

PLAINS MARKETING, L.P.  
TNM 97-04 TOWNSEND  
LEA COUNTY, NEW MEXICO  
NMOCD REFERENCE NUMBER GW-0294

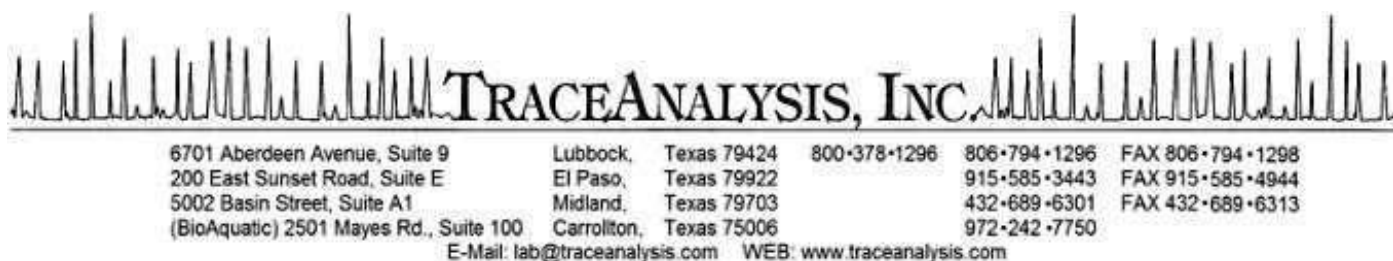
*All water concentrations are reported in mg/L*

| SAMPLE LOCATION | SAMPLE DATE | Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A. |             |              |              |            |                 |                  |              |               |              |               |                |               |            |                |              |            |
|-----------------|-------------|-------------------------------------------------------------------------------------------------|-------------|--------------|--------------|------------|-----------------|------------------|--------------|---------------|--------------|---------------|----------------|---------------|------------|----------------|--------------|------------|
|                 |             | Total Aluminum                                                                                  | Total Boron | Total Cobalt | Total Copper | Total Iron | Total Manganese | Total Molybdenum | Total Nickel | Total Arsenic | Total Barium | Total Cadmium | Total Chromium | Total Mercury | Total Lead | Total Selenium | Total Silver | Total Zinc |
|                 |             | 5.0 mg/L                                                                                        | 0.75 mg/L   | 0.05 mg/L    | 1.0 mg/L     | 1.0 mg/L   | 0.2 mg/L        | 1.0 mg/L         | 0.2 mg/L     | 0.1 mg/L      | 1.0 mg/L     | 0.01 mg/L     | 0.05 mg/L      | 0.002 mg/L    | 0.05 mg/L  | 0.05 mg/L      | 0.05 mg/L    | 10 mg/L    |
| Post Carbon     | 09/02/10    | 0.533                                                                                           | 0.105       | <0.005       | <0.005       | 0.119      | 0.197           | <0.010           | <0.005       | <0.010        | 0.171        | <0.005        | <0.005         | <0.0002       | 0.005      | <0.020         | <0.005       | 0.01       |
| Post Carbon     | 09/10/10    | <0.050                                                                                          | 0.168       | <0.005       | <0.005       | 0.177      | 0.091           | <0.050           | <0.010       | <0.010        | 0.243        | <0.005        | <0.010         | <0.0002       | <0.005     | <0.020         | <0.005       | <0.005     |
| Post Carbon     | 09/16/10    | 0.057                                                                                           | 0.216       | <0.005       | 0.005        | 0.044      | 0.101           | <0.050           | <0.010       | <0.010        | 0.28         | <0.005        | <0.010         | <0.0002       | <0.005     | <0.020         | <0.005       | 0.01       |
| Post Carbon     | 09/23/10    | 0.053                                                                                           | 0.112       | <0.005       | <0.005       | 0.311      | 0.034           | <0.050           | <0.010       | <0.010        | 0.194        | <0.005        | <0.010         | <0.0002       | <0.005     | <0.020         | <0.005       | 0.015      |
| Post Carbon     | 11/17/11    | <0.050                                                                                          | 0.221       | <0.005       | <0.005       | 0.012      | 0.064           | <0.050           | <0.010       | N/A           | N/A          | N/A           | N/A            | N/A           | N/A        | N/A            | N/A          | <0.005     |
| Post Carbon     | 12/31/12    | 0.304                                                                                           | 0.086       | <0.0100      | <0.00500     | 0.053      | <0.00500        | <0.0500          | <0.0100      | <0.0100       | 0.245        | <0.0100       | <0.0100        | <0.000200     | <0.0100    | <0.0200        | <0.00500     | 0.014      |
| Post Carbon*    | 01/31/13    | 0.304                                                                                           | 0.021       | <0.0100      | 1.09         | 8.13       | 0.021           | <0.0500          | 0.042        | <0.0100       | 0.103        | <0.0100       | <0.0100        | <0.000200     | 0.13       | <0.0200        | <0.00500     | 0.589      |
| Post Carbon**   | 01/31/13    | <0.0100                                                                                         | 0.0981      | <0.00500     | <0.00500     | <0.200     | <0.00500        | <0.00500         | <0.00500     | 0.00696       | 0.217        | <0.00200      | <0.00500       | <0.000200     | <0.00500   | <0.00500       | <0.00500     | 0.00659    |
| Post Carbon     | 02/28/14    | <0.0500                                                                                         | 0.0270      | <0.0100      | <0.00500     | 0.415      | 0.104           | <0.0500          | <0.0100      | <0.0100       | 0.249        | <0.0100       | <0.0100        | <0.000200     | <0.0100    | <0.0200        | <0.00500     | <0.0100    |
| Post Carbon     | 11/25/14    | 0.194                                                                                           | 0.1020      | <0.0100      | 0.109        | 0.994      | 0.053           | <0.0500          | <0.0100      | 0.0178        | 0.254        | <0.0100       | <0.0100        | <0.000200     | <0.0150    | <0.0200        | <0.00500     | 0.0914     |
| Post Carbon     | 10/28/15    | <0.0500                                                                                         | 0.108       | <0.0100      | 0.00500      | 0.203      | 0.0560          | <0.0500          | <0.0100      | <0.0100       | 0.239        | <0.00500      | <0.0100        | <0.000200     | <0.0150    | <0.0200        | <0.00500     | 0.0140     |

\*Sample analysis conducted by TraceAnalysis, Inc.

\*\*Samples analysis conducted by ALS Environmental Laboratories.

N/A - Laboratory failed to complete the analysis on the eight RCRA metals



## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Curt Stanley  
Nova Safety & Environmental  
2057 Commerce St.  
Midland, TX, 79703

Report Date: February 27, 2015

Work Order: 15022006



Project Location: Lovington, NM  
Project Name: TNM 97-04 Townsend  
Project Number: TNM 97-04  
SRS #: NM-2012

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 |
|--------|-------------|--------|------------|------------|---------------|
| 387375 | MW 13       | water  | 2015-02-19 | 14:33      | 2015-02-20    |
| 387376 | MW 18       | water  | 2015-02-19 | 14:51      | 2015-02-20    |
| 387377 | MW 14       | water  | 2015-02-19 | 15:10      | 2015-02-20    |
| 387378 | MW 15       | water  | 2015-02-19 | 15:25      | 2015-02-20    |
| 387379 | MW 6        | water  | 2015-02-19 | 15:51      | 2015-02-20    |

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 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, appearing to read "Brian Pellam". The signature is fluid and cursive, with a long horizontal stroke at the end.

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

# Report Contents

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## Case Narrative

Samples for project TNM 97-04 Townsend were received by TraceAnalysis, Inc. on 2015-02-20 and assigned to work order 15022006. Samples for work order 15022006 were received intact without headspace and at a temperature of 4.5 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 | 101155        | 2015-02-25 at 11:14 | 119614      | 2015-02-26 at 07:40 |

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 15022006 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: 387375 - MW 13

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 119614  
Prep Batch: 101155

Analytical Method: S 8021B  
Date Analyzed: 2015-02-26  
Sample Preparation: 2015-02-25

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

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

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0869 | mg/L  | 1        | 0.100           | 87                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0917 | mg/L  | 1        | 0.100           | 92                  | 70 - 130           |

## Sample: 387376 - MW 18

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 119614  
Prep Batch: 101155

Analytical Method: S 8021B  
Date Analyzed: 2015-02-26  
Sample Preparation: 2015-02-25

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

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

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0878 | mg/L  | 1        | 0.100           | 88                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0956 | mg/L  | 1        | 0.100           | 96                  | 70 - 130           |

Report Date: February 27, 2015  
TNM 97-04

Work Order: 15022006  
TNM 97-04 Townsend

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Lovington, NM

**Sample: 387377 - MW 14**

Laboratory: Midland

Analysis: BTEX

QC Batch: 119614

Prep Batch: 101155

Analytical Method: S 8021B

Date Analyzed: 2015-02-26

Sample Preparation: 2015-02-25

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

| Parameter    | Flag | Cert | RL<br>Result   | Units | Dilution | RL      |
|--------------|------|------|----------------|-------|----------|---------|
| Benzene      | U    | 1    | <0.00100       | mg/L  | 1        | 0.00100 |
| Toluene      | U    | 1    | <0.00100       | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | 1    | <b>0.00390</b> | mg/L  | 1        | 0.00100 |
| Xylene       |      | 1    | <b>0.0254</b>  | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0877 | mg/L  | 1        | 0.100           | 88                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.101  | mg/L  | 1        | 0.100           | 101                 | 70 - 130           |

**Sample: 387378 - MW 15**

Laboratory: Midland

Analysis: BTEX

QC Batch: 119614

Prep Batch: 101155

Analytical Method: S 8021B

Date Analyzed: 2015-02-26

Sample Preparation: 2015-02-25

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

| Parameter    | Flag | Cert | RL<br>Result  | Units | Dilution | RL      |
|--------------|------|------|---------------|-------|----------|---------|
| Benzene      |      | 1    | <b>0.164</b>  | mg/L  | 1        | 0.00100 |
| Toluene      | U    | 1    | <0.00100      | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | 1    | <b>0.0104</b> | mg/L  | 1        | 0.00100 |
| Xylene       | U    | 1    | <0.00100      | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0870 | mg/L  | 1        | 0.100           | 87                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0974 | mg/L  | 1        | 0.100           | 97                  | 70 - 130           |

Report Date: February 27, 2015  
TNM 97-04

Work Order: 15022006  
TNM 97-04 Townsend

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Lovington, NM

**Sample: 387379 - MW 6**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 119614  
Prep Batch: 101155

Analytical Method: S 8021B  
Date Analyzed: 2015-02-26  
Sample Preparation: 2015-02-25

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

| Parameter    | Flag | Cert | RL<br>Result  | Units | Dilution | RL      |
|--------------|------|------|---------------|-------|----------|---------|
| Benzene      |      | 1    | <b>0.579</b>  | mg/L  | 50       | 0.00100 |
| Toluene      | u    | 1    | <0.0500       | mg/L  | 50       | 0.00100 |
| Ethylbenzene |      | 1    | <b>0.0912</b> | mg/L  | 50       | 0.00100 |
| Xylene       |      | 1    | <b>0.154</b>  | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 4.29   | mg/L  | 50       | 5.00            | 86                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 4.74   | mg/L  | 50       | 5.00            | 95                  | 70 - 130           |

# Method Blanks

Method Blank (1)      QC Batch: 119614

QC Batch: 119614  
Prep Batch: 101155

Date Analyzed: 2015-02-26  
QC Preparation: 2015-02-25

Analyzed By: AK  
Prepared By: AK

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL    |
|--------------|------|------|---------------|-------|-------|
| Benzene      |      | 1    | <0.000299     | mg/L  | 0.001 |
| Toluene      |      | 1    | <0.000247     | mg/L  | 0.001 |
| Ethylbenzene |      | 1    | <0.000423     | mg/L  | 0.001 |
| Xylene       |      | 1    | <0.000552     | mg/L  | 0.001 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0825 | mg/L  | 1        | 0.100           | 82                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0909 | mg/L  | 1        | 0.100           | 91                  | 70 - 130           |

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 119614  
Prep Batch: 101155

Date Analyzed: 2015-02-26  
QC Preparation: 2015-02-25

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 1 | 0.0917        | mg/L  | 1    | 0.100           | <0.000299        | 92   | 70 - 130      |
| Toluene      |   | 1 | 0.0906        | mg/L  | 1    | 0.100           | <0.000247        | 91   | 70 - 130      |
| Ethylbenzene |   | 1 | 0.0906        | mg/L  | 1    | 0.100           | <0.000423        | 91   | 70 - 130      |
| Xylene       |   | 1 | 0.276         | mg/L  | 1    | 0.300           | <0.000552        | 92   | 70 - 130      |

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

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 1 | 0.0985        | mg/L  | 1    | 0.100           | <0.000299        | 98   | 70 - 130      | 7   | 20           |
| Toluene      |   | 1 | 0.0971        | mg/L  | 1    | 0.100           | <0.000247        | 97   | 70 - 130      | 7   | 20           |
| Ethylbenzene |   | 1 | 0.0979        | mg/L  | 1    | 0.100           | <0.000423        | 98   | 70 - 130      | 8   | 20           |
| Xylene       |   | 1 | 0.295         | mg/L  | 1    | 0.300           | <0.000552        | 98   | 70 - 130      | 7   | 20           |

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

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 0.0857        | 0.0883        | mg/L  | 1    | 0.100           | 86          | 88          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0959        | 0.0973        | mg/L  | 1    | 0.100           | 96          | 97          | 70 - 130      |

## Matrix Spikes

**Matrix Spike (MS-1)**      Spiked Sample: 387277

QC Batch: 119614  
Prep Batch: 101155

Date Analyzed: 2015-02-26  
QC Preparation: 2015-02-25

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 1 | 5.40         | mg/L  | 50   | 5.00            | 0.619            | 96   | 70 - 130      |
| Toluene      |   | 1 | 4.67         | mg/L  | 50   | 5.00            | <0.0124          | 93   | 70 - 130      |
| Ethylbenzene |   | 1 | 4.76         | mg/L  | 50   | 5.00            | 0.11             | 93   | 70 - 130      |
| Xylene       |   | 1 | 14.2         | mg/L  | 50   | 15.0            | 0.0957           | 94   | 70 - 130      |

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

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 1 | 5.40          | mg/L  | 50   | 5.00            | 0.619            | 96   | 70 - 130      | 0   | 20           |
| Toluene      |   | 1 | 4.71          | mg/L  | 50   | 5.00            | <0.0124          | 94   | 70 - 130      | 1   | 20           |
| Ethylbenzene |   | 1 | 4.84          | mg/L  | 50   | 5.00            | 0.11             | 95   | 70 - 130      | 2   | 20           |
| Xylene       |   | 1 | 14.5          | mg/L  | 50   | 15.0            | 0.0957           | 96   | 70 - 130      | 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)       | 4.60         | 4.24          | mg/L  | 50   | 5               | 92         | 85          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 5.00         | 4.96          | mg/L  | 50   | 5               | 100        | 99          | 70 - 130      |

## Calibration Standards

### Standard (CCV-1)

QC Batch: 119614

Date Analyzed: 2015-02-26

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 1    | mg/L  | 0.100                 | 0.0947                 | 95                          | 80 - 120                      | 2015-02-26       |
| Toluene      |      | 1    | mg/L  | 0.100                 | 0.0936                 | 94                          | 80 - 120                      | 2015-02-26       |
| Ethylbenzene |      | 1    | mg/L  | 0.100                 | 0.0952                 | 95                          | 80 - 120                      | 2015-02-26       |
| Xylene       |      | 1    | mg/L  | 0.300                 | 0.288                  | 96                          | 80 - 120                      | 2015-02-26       |

### Standard (CCV-2)

QC Batch: 119614

Date Analyzed: 2015-02-26

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 1    | mg/L  | 0.100                 | 0.0978                 | 98                          | 80 - 120                      | 2015-02-26       |
| Toluene      |      | 1    | mg/L  | 0.100                 | 0.0979                 | 98                          | 80 - 120                      | 2015-02-26       |
| Ethylbenzene |      | 1    | mg/L  | 0.100                 | 0.0979                 | 98                          | 80 - 120                      | 2015-02-26       |
| Xylene       |      | 1    | mg/L  | 0.300                 | 0.295                  | 98                          | 80 - 120                      | 2015-02-26       |

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704392-14-8      | Midland             |

## Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| MI1 | Split peak or shoulder peak                                                                                                                                                                                                         |
| MI2 | Instrument software did not integrate                                                                                                                                                                                               |
| MI3 | Instrument software misidentified the peak                                                                                                                                                                                          |
| MI4 | Instrument software integrated improperly                                                                                                                                                                                           |
| MI5 | Baseline correction                                                                                                                                                                                                                 |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |
| Qsr | Surrogate recovery outside of laboratory limits.                                                                                                                                                                                    |
| U   | The analyte is not detected above the SDL                                                                                                                                                                                           |

## Attachments

Report Date: February 27, 2015  
TNM 97-04

Work Order: 15022006  
TNM 97-04 Townsend

Page Number: 13 of 13  
Lovington, NM

---

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

**TraceAnalysis, Inc.**

email: lab@traceanalysis.com

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Fax (806) 794-1298  
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Tel (575) 392-7561  
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Company Name: **NOVA** Phone # **(432) 520-7720**  
 Address: (Street, City, Zip) **2057 Commerce** Fax #:  
 Contact Person: **Curt Stanley** E-mail:  
 Invoice to: (If different from above)  
 Project #: **TAM - 9704**  
 Project Location (including state):

Project Name:  
Sampler 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 |
| 387375                  | mw13       | 3            | 100%            | X      |      |     |        | X                   |                  |                                |      | X   |      | 2-19-15  | 1433 |
| 376                     | mw18       | 1            |                 |        |      |     |        |                     |                  |                                |      |     |      |          | 1451 |
| 377                     | mw14       | 1            |                 |        |      |     |        |                     |                  |                                |      |     |      |          | 1510 |
| 378                     | mw15       | 1            |                 |        |      |     |        |                     |                  |                                |      |     |      |          | 1525 |
| 379                     | mw16       | 1            |                 |        |      |     |        |                     |                  |                                |      |     |      |          | 1551 |

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

|                                                                                                 |   |
|-------------------------------------------------------------------------------------------------|---|
| MTBE 8021 / 602 / 8260 / 624                                                                    |   |
| BTEX (8021 / 602 / 8260 / 624                                                                   | X |
| 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 Semi Volatiles                                                                             |   |
| TCLP Pesticides                                                                                 |   |
| RCI                                                                                             |   |
| GC/MS Vol. 8260 / 624                                                                           |   |
| GC/MS Semi. Vol. 8270 / 625                                                                     |   |
| PCBs 8082 / 608                                                                                 |   |
| Pesticides 8081 / 608                                                                           |   |
| BOD, TSS, pH                                                                                    |   |
| Moisture Content                                                                                |   |
| Cl, F, SO <sub>4</sub> , NO <sub>3</sub> -N, NO <sub>2</sub> -N, PO <sub>4</sub> -P, Alkalinity |   |
| Na, Ca, Mg, K, TDS, EC                                                                          |   |
| Turn Around Time if different from standard                                                     |   |

**REMARKS:****LAB USE ONLY**

|                              |                      |                      |                   |                          |                      |                      |                   |                  |                 |                 |
|------------------------------|----------------------|----------------------|-------------------|--------------------------|----------------------|----------------------|-------------------|------------------|-----------------|-----------------|
| Relinquished by: <b>NOVA</b> | Company: <b>NOVA</b> | Date: <b>2-20-15</b> | Time: <b>9:20</b> | Received by: <b>NOVA</b> | Company: <b>NOVA</b> | Date: <b>2-20-15</b> | Time: <b>9:20</b> | INST <b>12-1</b> | INST <b>4-6</b> | INST <b>4-5</b> |
| Relinquished by: <b>NOVA</b> | Company: <b>NOVA</b> | Date: <b>2-20-15</b> | Time: <b>9:20</b> | Received by: <b>NOVA</b> | Company: <b>NOVA</b> | Date: <b>2-20-15</b> | Time: <b>9:20</b> | INST <b>12-1</b> | INST <b>4-6</b> | INST <b>4-5</b> |
| Relinquished by: <b>NOVA</b> | Company: <b>NOVA</b> | Date: <b>2-20-15</b> | Time: <b>9:20</b> | Received by: <b>NOVA</b> | Company: <b>NOVA</b> | Date: <b>2-20-15</b> | Time: <b>9:20</b> | INST <b>12-1</b> | INST <b>4-6</b> | INST <b>4-5</b> |

☐ 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.

Carrier #

**CARRY-IN**



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## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Curt Stanley  
Nova Safety & Environmental  
2057 Commerce St.  
Midland, TX, 79703

Report Date: March 27, 2015

Work Order: 15032602



Project Location: Lovington, NM  
Project Name: TNM 97-04 Townsend  
Project Number: TNM 97-04  
SRS #: NM-2012

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 |
|--------|-------------|--------|------------|------------|---------------|
| 389695 | Pre         | water  | 2015-03-25 | 11:06      | 2015-03-26    |

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  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

# Report Contents

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## Case Narrative

Samples for project TNM 97-04 Townsend were received by TraceAnalysis, Inc. on 2015-03-26 and assigned to work order 15032602. Samples for work order 15032602 were received intact at a temperature of 7.4 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 | 101801        | 2015-03-26 at 15:30 | 120316      | 2015-03-27 at 07:15 |

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 15032602 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: 389695 - Pre

|             |         |                     |            |              |         |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Midland | Analytical Method:  | S 8021B    | Prep Method: | S 5030B |
| Analysis:   | BTEX    | Date Analyzed:      | 2015-03-27 | Analyzed By: | AK      |
| QC Batch:   | 120316  | Sample Preparation: | 2015-03-26 | Prepared By: | AK      |
| Prep Batch: | 101801  |                     |            |              |         |

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL      |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene      |      | 1    | 0.0747       | mg/L  | 1        | 0.00100 |
| Toluene      |      | 1    | 0.0119       | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | 1    | 0.00810      | mg/L  | 1        | 0.00100 |
| Xylene       |      | 1    | 0.0156       | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0837 | mg/L  | 1        | 0.100           | 84                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0965 | mg/L  | 1        | 0.100           | 96                  | 70 - 130           |

# Method Blanks

Method Blank (1)      QC Batch: 120316

QC Batch: 120316  
Prep Batch: 101801

Date Analyzed: 2015-03-27  
QC Preparation: 2015-03-26

Analyzed By: AK  
Prepared By: AK

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL    |
|--------------|------|------|---------------|-------|-------|
| Benzene      |      | 1    | <0.000299     | mg/L  | 0.001 |
| Toluene      |      | 1    | <0.000247     | mg/L  | 0.001 |
| Ethylbenzene |      | 1    | <0.000423     | mg/L  | 0.001 |
| Xylene       |      | 1    | <0.000552     | mg/L  | 0.001 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0842 | mg/L  | 1        | 0.100           | 84                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0924 | mg/L  | 1        | 0.100           | 92                  | 70 - 130           |

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 120316  
Prep Batch: 101801

Date Analyzed: 2015-03-27  
QC Preparation: 2015-03-26

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 1 | 0.0936        | mg/L  | 1    | 0.100           | <0.000299        | 94   | 70 - 130      |
| Toluene      |   | 1 | 0.0905        | mg/L  | 1    | 0.100           | <0.000247        | 90   | 70 - 130      |
| Ethylbenzene |   | 1 | 0.0871        | mg/L  | 1    | 0.100           | <0.000423        | 87   | 70 - 130      |
| Xylene       |   | 1 | 0.262         | mg/L  | 1    | 0.300           | <0.000552        | 87   | 70 - 130      |

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

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 1 | 0.0970        | mg/L  | 1    | 0.100           | <0.000299        | 97   | 70 - 130      | 4   | 20           |
| Toluene      |   | 1 | 0.0933        | mg/L  | 1    | 0.100           | <0.000247        | 93   | 70 - 130      | 3   | 20           |
| Ethylbenzene |   | 1 | 0.0907        | mg/L  | 1    | 0.100           | <0.000423        | 91   | 70 - 130      | 4   | 20           |
| Xylene       |   | 1 | 0.271         | mg/L  | 1    | 0.300           | <0.000552        | 90   | 70 - 130      | 3   | 20           |

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

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 0.0861        | 0.0868        | mg/L  | 1    | 0.100           | 86          | 87          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0942        | 0.0964        | mg/L  | 1    | 0.100           | 94          | 96          | 70 - 130      |

## Matrix Spikes

**Matrix Spike (MS-1)**      Spiked Sample: 389694

QC Batch: 120316  
Prep Batch: 101801

Date Analyzed: 2015-03-27  
QC Preparation: 2015-03-26

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 1 | 0.0979       | mg/L  | 1    | 0.100           | <0.000299        | 98   | 70 - 130      |
| Toluene      |   | 1 | 0.0932       | mg/L  | 1    | 0.100           | <0.000247        | 93   | 70 - 130      |
| Ethylbenzene |   | 1 | 0.0877       | mg/L  | 1    | 0.100           | <0.000423        | 88   | 70 - 130      |
| Xylene       |   | 1 | 0.263        | mg/L  | 1    | 0.300           | <0.000552        | 88   | 70 - 130      |

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

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 1 | 0.0957        | mg/L  | 1    | 0.100           | <0.000299        | 96   | 70 - 130      | 2   | 20           |
| Toluene      |   | 1 | 0.0892        | mg/L  | 1    | 0.100           | <0.000247        | 89   | 70 - 130      | 4   | 20           |
| Ethylbenzene |   | 1 | 0.0872        | mg/L  | 1    | 0.100           | <0.000423        | 87   | 70 - 130      | 1   | 20           |
| Xylene       |   | 1 | 0.256         | mg/L  | 1    | 0.300           | <0.000552        | 85   | 70 - 130      | 3   | 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)       | 0.0831       | 0.0822        | mg/L  | 1    | 0.1             | 83         | 82          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0940       | 0.0933        | mg/L  | 1    | 0.1             | 94         | 93          | 70 - 130      |

## Calibration Standards

### Standard (CCV-1)

QC Batch: 120316

Date Analyzed: 2015-03-27

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 1    | mg/L  | 0.100                 | 0.0963                 | 96                          | 80 - 120                      | 2015-03-27       |
| Toluene      |      | 1    | mg/L  | 0.100                 | 0.0921                 | 92                          | 80 - 120                      | 2015-03-27       |
| Ethylbenzene |      | 1    | mg/L  | 0.100                 | 0.0928                 | 93                          | 80 - 120                      | 2015-03-27       |
| Xylene       |      | 1    | mg/L  | 0.300                 | 0.269                  | 90                          | 80 - 120                      | 2015-03-27       |

### Standard (CCV-2)

QC Batch: 120316

Date Analyzed: 2015-03-27

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 1    | mg/L  | 0.100                 | 0.100                  | 100                         | 80 - 120                      | 2015-03-27       |
| Toluene      |      | 1    | mg/L  | 0.100                 | 0.0944                 | 94                          | 80 - 120                      | 2015-03-27       |
| Ethylbenzene |      | 1    | mg/L  | 0.100                 | 0.0911                 | 91                          | 80 - 120                      | 2015-03-27       |
| Xylene       |      | 1    | mg/L  | 0.300                 | 0.275                  | 92                          | 80 - 120                      | 2015-03-27       |

## Appendix

### Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

### Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704392-14-8      | Midland             |

### Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| MI1 | Split peak or shoulder peak                                                                                                                                                                                                         |
| MI2 | Instrument software did not integrate                                                                                                                                                                                               |
| MI3 | Instrument software misidentified the peak                                                                                                                                                                                          |
| MI4 | Instrument software integrated improperly                                                                                                                                                                                           |
| MI5 | Baseline correction                                                                                                                                                                                                                 |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |
| Qsr | Surrogate recovery outside of laboratory limits.                                                                                                                                                                                    |
| U   | The analyte is not detected above the SDL                                                                                                                                                                                           |

### Attachments

Report Date: March 27, 2015  
TNM 97-04

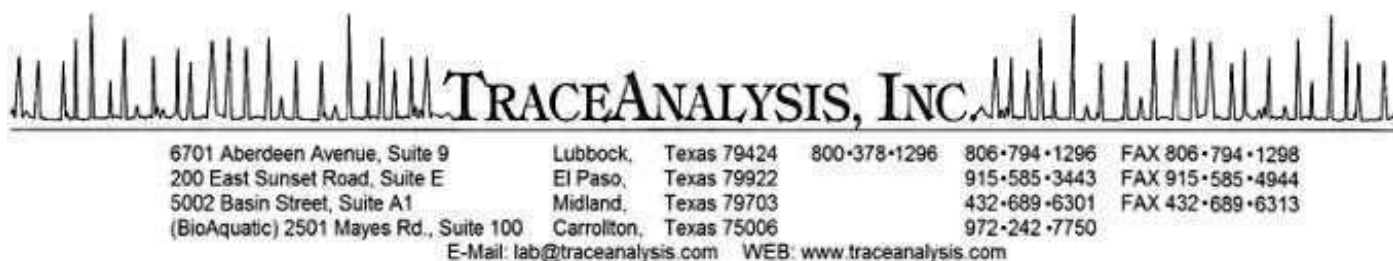
Work Order: 15032602  
TNM 97-04 Townsend

Page Number: 10 of 10  
Lovington, NM

---

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.





## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Curt Stanley  
 Nova Safety & Environmental  
 2057 Commerce St.  
 Midland, TX, 79703

Report Date: May 20, 2015

Work Order: 15051303



Project Location: Lovington, NM  
 Project Name: TNM 97-04 Townsend  
 Project Number: TNM 97-04  
 SRS #: NM-2012

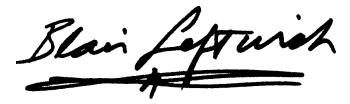
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 393124 | MW 13       | water  | 2015-05-12 | 13:38      | 2015-05-13    |
| 393125 | MW 18       | water  | 2015-05-12 | 14:05      | 2015-05-13    |
| 393126 | MW 14       | water  | 2015-05-12 | 14:22      | 2015-05-13    |
| 393127 | MW 15       | water  | 2015-05-12 | 14:38      | 2015-05-13    |

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.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent flourish at the end. Below the signature is a horizontal line.

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

# Report Contents

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## Case Narrative

Samples for project TNM 97-04 Townsend were received by TraceAnalysis, Inc. on 2015-05-13 and assigned to work order 15051303. Samples for work order 15051303 were received intact at a temperature of 2.1 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 | 102876        | 2015-05-18 at 11:25 | 121633      | 2015-05-19 at 15:21 |

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 15051303 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 20, 2015  
TNM 97-04

Work Order: 15051303  
TNM 97-04 Townsend

Page Number: 5 of 12  
Lovington, NM

# Analytical Report

## Sample: 393124 - MW 13

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 121633  
Prep Batch: 102876

Analytical Method: S 8021B  
Date Analyzed: 2015-05-19  
Sample Preparation: 2015-05-18

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

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL      |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.106  | mg/L  | 1        | 0.100           | 106                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0963 | mg/L  | 1        | 0.100           | 96                  | 70 - 130           |

## Sample: 393125 - MW 18

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 121633  
Prep Batch: 102876

Analytical Method: S 8021B  
Date Analyzed: 2015-05-19  
Sample Preparation: 2015-05-18

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

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL      |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.105  | mg/L  | 1        | 0.100           | 105                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0954 | mg/L  | 1        | 0.100           | 95                  | 70 - 130           |

Report Date: May 20, 2015  
TNM 97-04

Work Order: 15051303  
TNM 97-04 Townsend

Page Number: 6 of 12  
Lovington, NM

**Sample: 393126 - MW 14**

Laboratory: Midland

Analysis: BTEX

QC Batch: 121633

Prep Batch: 102876

Analytical Method: S 8021B

Date Analyzed: 2015-05-19

Sample Preparation: 2015-05-18

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

| Parameter    | Flag | Cert | RL<br>Result   | Units | Dilution | RL      |
|--------------|------|------|----------------|-------|----------|---------|
| Benzene      |      | 5    | <b>0.00210</b> | mg/L  | 1        | 0.00100 |
| Toluene      | U    | 5    | <0.00100       | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | 5    | <b>0.00850</b> | mg/L  | 1        | 0.00100 |
| Xylene       |      | 5    | <b>0.0445</b>  | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.104  | mg/L  | 1        | 0.100           | 104                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0978 | mg/L  | 1        | 0.100           | 98                  | 70 - 130           |

**Sample: 393127 - MW 15**

Laboratory: Midland

Analysis: BTEX

QC Batch: 121633

Prep Batch: 102876

Analytical Method: S 8021B

Date Analyzed: 2015-05-19

Sample Preparation: 2015-05-18

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

| Parameter    | Flag | Cert | RL<br>Result   | Units | Dilution | RL      |
|--------------|------|------|----------------|-------|----------|---------|
| Benzene      | U    | 5    | <0.00100       | mg/L  | 1        | 0.00100 |
| Toluene      | U    | 5    | <0.00100       | mg/L  | 1        | 0.00100 |
| Ethylbenzene | U    | 5    | <0.00100       | mg/L  | 1        | 0.00100 |
| Xylene       |      | 5    | <b>0.00440</b> | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.105  | mg/L  | 1        | 0.100           | 105                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0935 | mg/L  | 1        | 0.100           | 94                  | 70 - 130           |

# Method Blanks

Method Blank (1)      QC Batch: 121633

QC Batch: 121633  
Prep Batch: 102876

Date Analyzed: 2015-05-19  
QC Preparation: 2015-05-18

Analyzed By: AK  
Prepared By: AK

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL    |
|--------------|------|------|---------------|-------|-------|
| Benzene      |      | 5    | <0.000299     | mg/L  | 0.001 |
| Toluene      |      | 5    | <0.000247     | mg/L  | 0.001 |
| Ethylbenzene |      | 5    | <0.000423     | mg/L  | 0.001 |
| Xylene       |      | 5    | <0.000552     | mg/L  | 0.001 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.106  | mg/L  | 1        | 0.100           | 106                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0955 | mg/L  | 1        | 0.100           | 96                  | 70 - 130           |

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 121633  
Prep Batch: 102876

Date Analyzed: 2015-05-19  
QC Preparation: 2015-05-18

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.110         | mg/L  | 1    | 0.100           | <0.000299        | 110  | 70 - 130      |
| Toluene      |   | 5 | 0.0987        | mg/L  | 1    | 0.100           | <0.000247        | 99   | 70 - 130      |
| Ethylbenzene |   | 5 | 0.0969        | mg/L  | 1    | 0.100           | <0.000423        | 97   | 70 - 130      |
| Xylene       |   | 5 | 0.288         | mg/L  | 1    | 0.300           | <0.000552        | 96   | 70 - 130      |

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

| Param        | F | C | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.109          | mg/L  | 1    | 0.100           | <0.000299        | 109  | 70 - 130      | 0   | 20           |
| Toluene      |   | 5 | 0.0988         | mg/L  | 1    | 0.100           | <0.000247        | 99   | 70 - 130      | 0   | 20           |
| Ethylbenzene |   | 5 | 0.0972         | mg/L  | 1    | 0.100           | <0.000423        | 97   | 70 - 130      | 0   | 20           |
| Xylene       |   | 5 | 0.288          | mg/L  | 1    | 0.300           | <0.000552        | 96   | 70 - 130      | 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)       | 0.106         | 0.106          | mg/L  | 1    | 0.100           | 106         | 106          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0983        | 0.0985         | mg/L  | 1    | 0.100           | 98          | 98           | 70 - 130      |

## Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 392975

QC Batch: 121633  
Prep Batch: 102876

Date Analyzed: 2015-05-19  
QC Preparation: 2015-05-18

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.109        | mg/L  | 1    | 0.100           | <0.000299        | 109  | 70 - 130      |
| Toluene      |   | 5 | 0.0975       | mg/L  | 1    | 0.100           | <0.000247        | 98   | 70 - 130      |
| Ethylbenzene |   | 5 | 0.0954       | mg/L  | 1    | 0.100           | <0.000423        | 95   | 70 - 130      |
| Xylene       |   | 5 | 0.283        | mg/L  | 1    | 0.300           | <0.000552        | 94   | 70 - 130      |

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

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.110         | mg/L  | 1    | 0.100           | <0.000299        | 110  | 70 - 130      | 1   | 20           |
| Toluene      |   | 5 | 0.0977        | mg/L  | 1    | 0.100           | <0.000247        | 98   | 70 - 130      | 0   | 20           |
| Ethylbenzene |   | 5 | 0.0983        | mg/L  | 1    | 0.100           | <0.000423        | 98   | 70 - 130      | 3   | 20           |
| Xylene       |   | 5 | 0.288         | mg/L  | 1    | 0.300           | <0.000552        | 96   | 70 - 130      | 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)       | 0.0970       | 0.0997        | mg/L  | 1    | 0.1             | 97         | 100         | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0954       | 0.0953        | mg/L  | 1    | 0.1             | 95         | 95          | 70 - 130      |

## Calibration Standards

### Standard (CCV-1)

QC Batch: 121633

Date Analyzed: 2015-05-19

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.103                  | 103                         | 80 - 120                      | 2015-05-19       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.0932                 | 93                          | 80 - 120                      | 2015-05-19       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.0923                 | 92                          | 80 - 120                      | 2015-05-19       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.273                  | 91                          | 80 - 120                      | 2015-05-19       |

### Standard (CCV-2)

QC Batch: 121633

Date Analyzed: 2015-05-19

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.107                  | 107                         | 80 - 120                      | 2015-05-19       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.0975                 | 98                          | 80 - 120                      | 2015-05-19       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.0972                 | 97                          | 80 - 120                      | 2015-05-19       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.286                  | 95                          | 80 - 120                      | 2015-05-19       |

### Standard (CCV-3)

QC Batch: 121633

Date Analyzed: 2015-05-19

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.108                  | 108                         | 80 - 120                      | 2015-05-19       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.0996                 | 100                         | 80 - 120                      | 2015-05-19       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.0968                 | 97                          | 80 - 120                      | 2015-05-19       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.285                  | 95                          | 80 - 120                      | 2015-05-19       |

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | L-A-B                | L2418                | Lubbock             |
| 2 | Kansas               | Kansas E-10317       | Lubbock             |
| 3 | LELAP                | LELAP-02003          | Lubbock             |
| 4 | NELAP                | T104704219-15-11     | Lubbock             |
| 5 | NELAP                | T104704392-14-8      | Midland             |
| 6 |                      | 2014-018             | Lubbock             |

## Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| MI1 | Split peak or shoulder peak                                                                                                                                                                                                         |
| MI2 | Instrument software did not integrate                                                                                                                                                                                               |
| MI3 | Instrument software misidentified the peak                                                                                                                                                                                          |
| MI4 | Instrument software integrated improperly                                                                                                                                                                                           |
| MI5 | Baseline correction                                                                                                                                                                                                                 |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |

| F   | Description                                      |
|-----|--------------------------------------------------|
| Qsr | Surrogate recovery outside of laboratory limits. |
| U   | The analyte is not detected above the SDL        |

---

**Attachments**

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

# TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9  
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Carrollton, Texas 75006  
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Fax (575) 392-4508

email: lab@traceanalysis.com

Company Name:

Phone #:

(432) 520-7720

Address: (Street, City, Zip)

2053 Commerce Midland TX 79703

Contact Person: Curt Stanley

Invoice to:

(If different from above)

Project #:

TNM-97-04

Project Name:

Townsend

Project Location (including state):

Sampler Signature:

*[Signature]*

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     | DATE    | TIME |
|-------------------------|------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|---------|------|
|                         |            |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE |         |      |
| 39324                   | MW 13      | 3            | VOA X           | X      |      |     |        | X                   |                  |                                |      | X   | 5/12/13 | 1338 |
| 39325                   | MW 18      |              |                 |        |      |     |        |                     |                  |                                |      |     | 1405    |      |
| 39326                   | MW 14      |              |                 |        |      |     |        |                     |                  |                                |      |     | 1432    |      |
| 39327                   | MW 15      |              |                 |        |      |     |        |                     |                  |                                |      |     | 1438    |      |

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

|                              |                              |                     |                       |                                     |                           |                                                                                                 |                        |                                             |
|------------------------------|------------------------------|---------------------|-----------------------|-------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------|
| GC/MS Vol. 8260 / 624        | GC/MS Semi. Vol. 8270 / 625  | PCBs 8082 / 608     | Pesticides 8081 / 608 | BOD, TSS, pH                        | Moisture Content          | Cl, F, SO <sub>4</sub> , NO <sub>3</sub> -N, NO <sub>2</sub> -N, PO <sub>4</sub> -P, Alkalinity | Na, Ca, Mg, K, TDS, EC | Turn Around Time if different from standard |
| RCI                          | TCLP Pesticides              | TCLP Semi Volatiles | TCLP Volatiles        | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TPH 8015 GRO / DRO / TVHC | TPH 418.1 / TX1005 / TX1005 Ex(C35)                                                             | PAH 8270 / 625         |                                             |
| MTBE 8021 / 602 / 8260 / 624 | BTEX (8021) 602 / 8260 / 624 |                     |                       |                                     |                           |                                                                                                 |                        |                                             |

## REMARKS:

## LAB USE ONLY

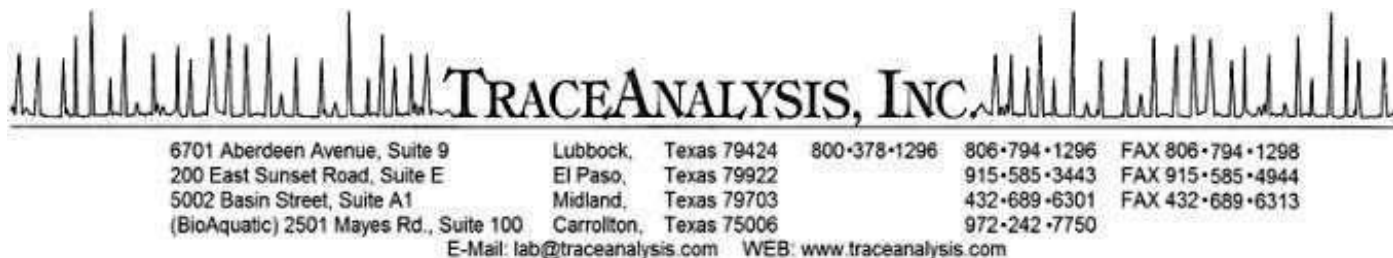
|                    |          |         |       |                    |          |         |       |           |           |           |
|--------------------|----------|---------|-------|--------------------|----------|---------|-------|-----------|-----------|-----------|
| Relinquished by:   | Company: | Date:   | Time: | Received by:       | Company: | Date:   | Time: | INST. IR  | INST. OBS | INST. COR |
| <i>[Signature]</i> | TRC      | 5/13/15 | 0840  | <i>[Signature]</i> | TA       | 5.13.15 | 0840  |           | 2.1       | 2.0       |
| Relinquished by:   | Company: | Date:   | Time: | Received by:       | Company: | Date:   | Time: | INST. OBS | INST. COR | INST. COR |
|                    |          |         |       |                    |          |         |       |           |           |           |
| Relinquished by:   | Company: | Date:   | Time: | Received by:       | Company: | Date:   | Time: | INST. OBS | INST. COR | INST. COR |
|                    |          |         |       |                    |          |         |       |           |           |           |

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 #



## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Curt Stanley  
TRC Solutions  
2057 Commerce  
Midland, Tx, 79703

Report Date: July 10, 2015

Work Order: 15070120



Project Location: Lovington, NM  
Project Name: Townsend  
Project Number: TNM 9704

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 |
|--------|-------------|--------|------------|------------|---------------|
| 397270 | Post        | water  | 2015-06-30 | 10:15      | 2015-07-01    |

## Notes

- **Work Order 15070120:** 24hr TAT on BTEX. Run PAH only if BTEX is Detected.

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.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, appearing to read "Brian Pellam". The signature is fluid and cursive, with a long horizontal stroke at the end.

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project Townsend were received by TraceAnalysis, Inc. on 2015-07-01 and assigned to work order 15070120. Samples for work order 15070120 were received intact at a temperature of 6.3 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 | 103877        | 2015-07-01 at 15:22 | 122826      | 2015-07-02 at 12:56 |
| PAH  | S 8270D | 104053        | 2015-07-07 at 15:00 | 123030      | 2015-07-10 at 11:17 |

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 15070120 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: 397270 - Post

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 122826  
Prep Batch: 103877

Analytical Method: S 8021B  
Date Analyzed: 2015-07-02  
Sample Preparation: 2015-07-01

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

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL      |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0919 | mg/L  | 1        | 0.100           | 92                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0903 | mg/L  | 1        | 0.100           | 90                  | 70 - 130           |

## Sample: 397270 - Post

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 123030  
Prep Batch: 104053

Analytical Method: S 8270D  
Date Analyzed: 2015-07-10  
Sample Preparation: 2015-07-07

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter           | Flag | Cert      | RL<br>Result | Units | Dilution | RL       |
|---------------------|------|-----------|--------------|-------|----------|----------|
| Naphthalene         | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| 2-Methylnaphthalene | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| 1-Methylnaphthalene | Qs,U | 1         | <0.000200    | mg/L  | 1        | 0.000200 |
| Acenaphthylene      | Qs,U | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Acenaphthene        | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Dibenzofuran        | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Fluorene            | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Anthracene          | Qs,U | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Phenanthrene        | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Fluoranthene        | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Pyrene              | Qs,U | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Benzo(a)anthracene  | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Chrysene            | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |

*continued ...*

sample 397270 continued ...

| Parameter              | Flag              | Cert      | RL<br>Result | Units | Dilution | RL       |
|------------------------|-------------------|-----------|--------------|-------|----------|----------|
| Benzo(b)fluoranthene   | U                 | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Benzo(k)fluoranthene   | U                 | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Benzo(a)pyrene         | U                 | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Indeno(1,2,3-cd)pyrene | U                 | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Dibenzo(a,h)anthracene | Q <sub>S</sub> ,U | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Benzo(g,h,i)perylene   | U                 | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |

| Surrogate        | Flag            | Cert            | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|-----------------|-----------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |                 |                 | 1.45   | mg/L  | 1        | 8.00            | 18                  | 10 - 120           |
| 2-Fluorobiphenyl | Q <sub>SR</sub> | Q <sub>SR</sub> | 2.50   | mg/L  | 1        | 8.00            | 31                  | 35.9 - 120         |
| Terphenyl-d14    |                 |                 | 3.13   | mg/L  | 1        | 8.00            | 39                  | 23.2 - 120         |

## Method Blanks

### Method Blank (1) QC Batch: 122826

QC Batch: 122826 Date Analyzed: 2015-07-02 Analyzed By: AK  
Prep Batch: 103877 QC Preparation: 2015-07-01 Prepared By: AK

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL    |
|--------------|------|------|---------------|-------|-------|
| Benzene      |      | 5    | <0.000299     | mg/L  | 0.001 |
| Toluene      |      | 5    | <0.000247     | mg/L  | 0.001 |
| Ethylbenzene |      | 5    | <0.000423     | mg/L  | 0.001 |
| Xylene       |      | 5    | <0.000552     | mg/L  | 0.001 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0823 | mg/L  | 1        | 0.100           | 82                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0812 | mg/L  | 1        | 0.100           | 81                  | 70 - 130           |

### Method Blank (1) QC Batch: 123030

QC Batch: 123030 Date Analyzed: 2015-07-10 Analyzed By: MN  
Prep Batch: 104053 QC Preparation: 2015-07-07 Prepared By: MN

| Parameter            | Flag | Cert      | MDL<br>Result | Units | RL     |
|----------------------|------|-----------|---------------|-------|--------|
| Naphthalene          |      | 1,2,3,4,6 | <0.0000656    | mg/L  | 0.0002 |
| 2-Methylnaphthalene  |      | 1,2,3,4,6 | <0.0000516    | mg/L  | 0.0002 |
| 1-Methylnaphthalene  |      | 1         | <0.0000663    | mg/L  | 0.0002 |
| Acenaphthylene       |      | 1,2,3,4,6 | <0.0000581    | mg/L  | 0.0002 |
| Acenaphthene         |      | 1,2,3,4,6 | <0.0000332    | mg/L  | 0.0002 |
| Dibenzofuran         |      | 1,2,3,4,6 | <0.0000607    | mg/L  | 0.0002 |
| Fluorene             |      | 1,2,3,4,6 | <0.0000788    | mg/L  | 0.0002 |
| Anthracene           |      | 1,2,3,4,6 | <0.0000321    | mg/L  | 0.0002 |
| Phenanthrene         |      | 1,2,3,4,6 | <0.0000516    | mg/L  | 0.0002 |
| Fluoranthene         |      | 1,2,3,4,6 | <0.0000638    | mg/L  | 0.0002 |
| Pyrene               |      | 1,2,3,4,6 | <0.0000415    | mg/L  | 0.0002 |
| Benzo(a)anthracene   |      | 1,2,3,4,6 | <0.0000721    | mg/L  | 0.0002 |
| Chrysene             |      | 1,2,3,4,6 | <0.0000811    | mg/L  | 0.0002 |
| Benzo(b)fluoranthene |      | 1,2,3,4,6 | <0.0000710    | mg/L  | 0.0002 |
| Benzo(k)fluoranthene |      | 1,2,3,4,6 | <0.0000561    | mg/L  | 0.0002 |
| Benzo(a)pyrene       |      | 1,2,3,4,6 | <0.0000418    | mg/L  | 0.0002 |

*continued ...*

Report Date: July 10, 2015  
TNM 9704

Work Order: 15070120  
Townsend

Page Number: 8 of 15  
Lovington, NM

*method blank continued ...*

| Parameter              | Flag | Cert      | MDL<br>Result | Units | RL     |
|------------------------|------|-----------|---------------|-------|--------|
| Indeno(1,2,3-cd)pyrene |      | 1,2,3,4,6 | <0.0000537    | mg/L  | 0.0002 |
| Dibenzo(a,h)anthracene |      | 1,2,3,4,6 | <0.0000562    | mg/L  | 0.0002 |
| Benzo(g,h,i)perylene   |      | 1,2,3,4,6 | <0.0000519    | mg/L  | 0.0002 |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      |      | 3.75   | mg/L  | 1        | 8.00            | 47                  | 10 - 120           |
| 2-Fluorobiphenyl |      |      | 6.64   | mg/L  | 1        | 8.00            | 83                  | 35.9 - 120         |
| Terphenyl-d14    |      |      | 7.17   | mg/L  | 1        | 8.00            | 90                  | 23.2 - 120         |

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 122826  
Prep Batch: 103877

Date Analyzed: 2015-07-02  
QC Preparation: 2015-07-01

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.0824        | mg/L  | 1    | 0.100           | <0.000299        | 82   | 70 - 130      |
| Toluene      |   | 5 | 0.0839        | mg/L  | 1    | 0.100           | <0.000247        | 84   | 70 - 130      |
| Ethylbenzene |   | 5 | 0.0831        | mg/L  | 1    | 0.100           | <0.000423        | 83   | 70 - 130      |
| Xylene       |   | 5 | 0.251         | mg/L  | 1    | 0.300           | <0.000552        | 84   | 70 - 130      |

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

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.0852        | mg/L  | 1    | 0.100           | <0.000299        | 85   | 70 - 130      | 3   | 20           |
| Toluene      |   | 5 | 0.0845        | mg/L  | 1    | 0.100           | <0.000247        | 84   | 70 - 130      | 1   | 20           |
| Ethylbenzene |   | 5 | 0.0848        | mg/L  | 1    | 0.100           | <0.000423        | 85   | 70 - 130      | 2   | 20           |
| Xylene       |   | 5 | 0.255         | mg/L  | 1    | 0.300           | <0.000552        | 85   | 70 - 130      | 2   | 20           |

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

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 0.0882        | 0.0819        | mg/L  | 1    | 0.100           | 88          | 82          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0883        | 0.0839        | mg/L  | 1    | 0.100           | 88          | 84          | 70 - 130      |

## Laboratory Control Spike (LCS-1)

QC Batch: 123030  
Prep Batch: 104053

Date Analyzed: 2015-07-10  
QC Preparation: 2015-07-07

Analyzed By: MN  
Prepared By: MN

| Param               | F  | C         | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|---------------------|----|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Naphthalene         |    | 1,2,3,4,6 | 7.08          | mg/L  | 1    | 8.00            | <0.0000656       | 88   | 49.7 - 120    |
| 2-Methylnaphthalene |    | 1,2,3,4,6 | 6.47          | mg/L  | 1    | 8.00            | <0.0000516       | 81   | 44.6 - 120    |
| 1-Methylnaphthalene | Qs | Qs        | 1             | mg/L  | 1    | 8.00            | <0.0000663       | 194  | 10 - 189      |
| Acenaphthylene      |    | 1,2,3,4,6 | 9.46          | mg/L  | 1    | 8.00            | <0.0000581       | 118  | 40.9 - 120    |
| Acenaphthene        |    | 1,2,3,4,6 | 7.65          | mg/L  | 1    | 8.00            | <0.0000332       | 96   | 49.9 - 120    |

*continued ...*

control spikes continued ...

| Param                  | F  | C         | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|----|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Dibenzofuran           |    | 1,2,3,4,6 | 6.71          | mg/L  | 1    | 8.00            | <0.0000607       | 84   | 34 - 120      |
| Fluorene               |    | 1,2,3,4,6 | 6.47          | mg/L  | 1    | 8.00            | <0.0000788       | 81   | 49.7 - 120    |
| Anthracene             | Qs | Qs        | 12.5          | mg/L  | 1    | 8.00            | <0.0000321       | 156  | 11.4 - 155    |
| Phenanthrene           |    | 1,2,3,4,6 | 6.63          | mg/L  | 1    | 8.00            | <0.0000516       | 83   | 41 - 120      |
| Fluoranthene           |    | 1,2,3,4,6 | 5.94          | mg/L  | 1    | 8.00            | <0.0000638       | 74   | 35.7 - 120    |
| Pyrene                 | Qs | Qs        | 13.3          | mg/L  | 1    | 8.00            | <0.0000415       | 166  | 19.5 - 139    |
| Benzo(a)anthracene     |    | 1,2,3,4,6 | 7.05          | mg/L  | 1    | 8.00            | <0.0000721       | 88   | 53.4 - 120    |
| Chrysene               |    | 1,2,3,4,6 | 5.90          | mg/L  | 1    | 8.00            | <0.0000811       | 74   | 10 - 170      |
| Benzo(b)fluoranthene   |    | 1,2,3,4,6 | 6.17          | mg/L  | 1    | 8.00            | <0.0000710       | 77   | 29.2 - 120    |
| Benzo(k)fluoranthene   |    | 1,2,3,4,6 | 6.24          | mg/L  | 1    | 8.00            | <0.0000561       | 78   | 23.4 - 120    |
| Benzo(a)pyrene         |    | 1,2,3,4,6 | 7.00          | mg/L  | 1    | 8.00            | <0.0000418       | 88   | 23.4 - 120    |
| Indeno(1,2,3-cd)pyrene |    | 1,2,3,4,6 | 2.03          | mg/L  | 1    | 8.00            | <0.0000537       | 25   | 10 - 129      |
| Dibenzo(a,h)anthracene | Qs | Qs        | 21.8          | mg/L  | 1    | 8.00            | <0.0000562       | 272  | 10 - 174      |
| Benzo(g,h,i)perylene   |    | 1,2,3,4,6 | 6.59          | mg/L  | 1    | 8.00            | <0.0000519       | 82   | 30.6 - 120    |

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

| Param                  | F  | C         | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.       | Rec.<br>Limit | RPD        | RPD<br>Limit |    |
|------------------------|----|-----------|----------------|-------|------|-----------------|------------------|------------|---------------|------------|--------------|----|
| Naphthalene            |    | 1,2,3,4,6 | 7.67           | mg/L  | 1    | 8.00            | <0.0000656       | 96         | 49.7 - 120    | 8          | 20           |    |
| 2-Methylnaphthalene    |    | 1,2,3,4,6 | 7.07           | mg/L  | 1    | 8.00            | <0.0000516       | 88         | 44.6 - 120    | 9          | 20           |    |
| 1-Methylnaphthalene    | Qs | Qs        | 1              | 15.7  | mg/L | 1               | 8.00             | <0.0000663 | 196           | 10 - 189   | 1            | 20 |
| Acenaphthylene         | Qs | Qs        | 1,2,3,4,6      | 10.6  | mg/L | 1               | 8.00             | <0.0000581 | 132           | 40.9 - 120 | 11           | 20 |
| Acenaphthene           |    | 1,2,3,4,6 | 8.32           | mg/L  | 1    | 8.00            | <0.0000332       | 104        | 49.9 - 120    | 8          | 20           |    |
| Dibenzofuran           |    | 1,2,3,4,6 | 7.33           | mg/L  | 1    | 8.00            | <0.0000607       | 92         | 34 - 120      | 9          | 20           |    |
| Fluorene               |    | 1,2,3,4,6 | 7.30           | mg/L  | 1    | 8.00            | <0.0000788       | 91         | 49.7 - 120    | 12         | 20           |    |
| Anthracene             | Qs | Qs        | 1,2,3,4,6      | 13.8  | mg/L | 1               | 8.00             | <0.0000321 | 172           | 11.4 - 155 | 10           | 20 |
| Phenanthrene           |    | 1,2,3,4,6 | 7.30           | mg/L  | 1    | 8.00            | <0.0000516       | 91         | 41 - 120      | 10         | 20           |    |
| Fluoranthene           |    | 1,2,3,4,6 | 6.26           | mg/L  | 1    | 8.00            | <0.0000638       | 78         | 35.7 - 120    | 5          | 20           |    |
| Pyrene                 | Qs | Qs        | 1,2,3,4,6      | 13.4  | mg/L | 1               | 8.00             | <0.0000415 | 168           | 19.5 - 139 | 1            | 20 |
| Benzo(a)anthracene     |    | 1,2,3,4,6 | 7.54           | mg/L  | 1    | 8.00            | <0.0000721       | 94         | 53.4 - 120    | 7          | 20           |    |
| Chrysene               |    | 1,2,3,4,6 | 6.26           | mg/L  | 1    | 8.00            | <0.0000811       | 78         | 10 - 170      | 6          | 20           |    |
| Benzo(b)fluoranthene   |    | 1,2,3,4,6 | 6.66           | mg/L  | 1    | 8.00            | <0.0000710       | 83         | 29.2 - 120    | 8          | 20           |    |
| Benzo(k)fluoranthene   |    | 1,2,3,4,6 | 7.49           | mg/L  | 1    | 8.00            | <0.0000561       | 94         | 23.4 - 120    | 18         | 20           |    |
| Benzo(a)pyrene         |    | 1,2,3,4,6 | 8.55           | mg/L  | 1    | 8.00            | <0.0000418       | 107        | 23.4 - 120    | 20         | 20           |    |
| Indeno(1,2,3-cd)pyrene |    | 1,2,3,4,6 | 2.25           | mg/L  | 1    | 8.00            | <0.0000537       | 28         | 10 - 129      | 10         | 20           |    |
| Dibenzo(a,h)anthracene | Qs | Qs        | 1,2,3,4,6      | 23.2  | mg/L | 1               | 8.00             | <0.0000562 | 290           | 10 - 174   | 6            | 20 |
| Benzo(g,h,i)perylene   |    | 1,2,3,4,6 | 7.22           | mg/L  | 1    | 8.00            | <0.0000519       | 90         | 30.6 - 120    | 9          | 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  | 3.71          | 3.93           | mg/L  | 1    | 8.00            | 46          | 49           | 10 - 120      |
| 2-Fluorobiphenyl | 6.75          | 7.30           | mg/L  | 1    | 8.00            | 84          | 91           | 35.9 - 120    |
| Terphenyl-d14    | 7.57          | 8.12           | mg/L  | 1    | 8.00            | 95          | 102          | 23.2 - 120    |

## Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 397270

QC Batch: 122826  
Prep Batch: 103877

Date Analyzed: 2015-07-02  
QC Preparation: 2015-07-01

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.0873       | mg/L  | 1    | 0.100           | <0.000299        | 87   | 70 - 130      |
| Toluene      |   | 5 | 0.0858       | mg/L  | 1    | 0.100           | <0.000247        | 86   | 70 - 130      |
| Ethylbenzene |   | 5 | 0.0865       | mg/L  | 1    | 0.100           | <0.000423        | 86   | 70 - 130      |
| Xylene       |   | 5 | 0.258        | mg/L  | 1    | 0.300           | <0.000552        | 86   | 70 - 130      |

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

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.0877        | mg/L  | 1    | 0.100           | <0.000299        | 88   | 70 - 130      | 0   | 20           |
| Toluene      |   | 5 | 0.0877        | mg/L  | 1    | 0.100           | <0.000247        | 88   | 70 - 130      | 2   | 20           |
| Ethylbenzene |   | 5 | 0.0870        | mg/L  | 1    | 0.100           | <0.000423        | 87   | 70 - 130      | 1   | 20           |
| Xylene       |   | 5 | 0.261         | mg/L  | 1    | 0.300           | <0.000552        | 87   | 70 - 130      | 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)       | 0.0877       | 0.0815        | mg/L  | 1    | 0.1             | 88         | 82          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0905       | 0.0830        | mg/L  | 1    | 0.1             | 90         | 83          | 70 - 130      |

## Calibration Standards

### Standard (CCV-1)

QC Batch: 122826

Date Analyzed: 2015-07-02

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.0870                 | 87                          | 80 - 120                      | 2015-07-02       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.0869                 | 87                          | 80 - 120                      | 2015-07-02       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.0855                 | 86                          | 80 - 120                      | 2015-07-02       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.259                  | 86                          | 80 - 120                      | 2015-07-02       |

### Standard (CCV-2)

QC Batch: 122826

Date Analyzed: 2015-07-02

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.0902                 | 90                          | 80 - 120                      | 2015-07-02       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.0905                 | 90                          | 80 - 120                      | 2015-07-02       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.0909                 | 91                          | 80 - 120                      | 2015-07-02       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.272                  | 91                          | 80 - 120                      | 2015-07-02       |

### Standard (CCV-1)

QC Batch: 123030

Date Analyzed: 2015-07-10

Analyzed By: MN

| Param               | Flag | Cert      | 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         |      | 1,2,3,4,6 | mg/L  | 60.0                  | 57.6                   | 96                          | 80 - 120                      | 2015-07-10       |
| 2-Methylnaphthalene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 59.0                   | 98                          | 80 - 120                      | 2015-07-10       |
| 1-Methylnaphthalene |      | 1         | mg/L  | 60.0                  | 56.6                   | 94                          | 80 - 120                      | 2015-07-10       |
| Acenaphthylene      |      | 1,2,3,4,6 | mg/L  | 60.0                  | 58.0                   | 97                          | 80 - 120                      | 2015-07-10       |
| Acenaphthene        |      | 1,2,3,4,6 | mg/L  | 60.0                  | 56.5                   | 94                          | 80 - 120                      | 2015-07-10       |
| Dibenzofuran        |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.5                   | 101                         | 80 - 120                      | 2015-07-10       |
| Fluorene            |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.8                   | 101                         | 80 - 120                      | 2015-07-10       |

*continued ...*

*standard continued ...*

| Param                  | Flag | Cert      | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Anthracene             |      | 1,2,3,4,6 | mg/L  | 60.0                  | 56.1                   | 94                          | 80 - 120                      | 2015-07-10       |
| Phenanthrene           |      | 1,2,3,4,6 | mg/L  | 60.0                  | 57.9                   | 96                          | 80 - 120                      | 2015-07-10       |
| Fluoranthene           |      | 1,2,3,4,6 | mg/L  | 60.0                  | 49.8                   | 83                          | 80 - 120                      | 2015-07-10       |
| Pyrene                 |      | 1,2,3,4,6 | mg/L  | 60.0                  | 62.5                   | 104                         | 80 - 120                      | 2015-07-10       |
| Benzo(a)anthracene     |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.2                   | 100                         | 80 - 120                      | 2015-07-10       |
| Chrysene               |      | 1,2,3,4,6 | mg/L  | 60.0                  | 63.1                   | 105                         | 80 - 120                      | 2015-07-10       |
| Benzo(b)fluoranthene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 58.5                   | 98                          | 80 - 120                      | 2015-07-10       |
| Benzo(k)fluoranthene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 54.1                   | 90                          | 80 - 120                      | 2015-07-10       |
| Benzo(a)pyrene         |      | 1,2,3,4,6 | mg/L  | 60.0                  | 57.6                   | 96                          | 80 - 120                      | 2015-07-10       |
| Indeno(1,2,3-cd)pyrene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 58.5                   | 98                          | 80 - 120                      | 2015-07-10       |
| Dibenzo(a,h)anthracene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 61.2                   | 102                         | 80 - 120                      | 2015-07-10       |
| Benzo(g,h,i)perylene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 57.7                   | 96                          | 80 - 120                      | 2015-07-10       |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |      |      | 63.0   | mg/L  | 1        | 60.0            | 105                 | -                 |
| 2-Fluorobiphenyl |      |      | 58.0   | mg/L  | 1        | 60.0            | 97                  | -                 |
| Terphenyl-d14    |      |      | 62.4   | mg/L  | 1        | 60.0            | 104                 | -                 |

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | L-A-B                | L2418                | Lubbock             |
| 2 | Kansas               | Kansas E-10317       | Lubbock             |
| 3 | LELAP                | LELAP-02003          | Lubbock             |
| 4 | NELAP                | T104704219-15-11     | Lubbock             |
| 5 | NELAP                | T104704392-14-8      | Midland             |
| 6 |                      | 2014-018             | Lubbock             |

## Standard Flags

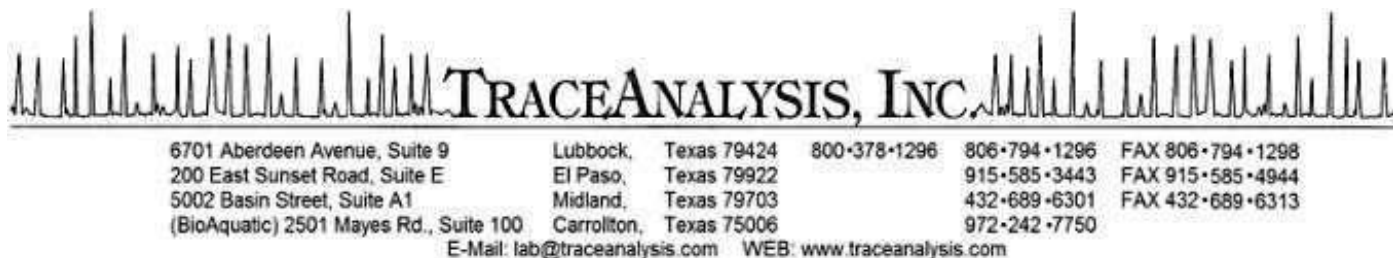
| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| MI1 | Split peak or shoulder peak                                                                                                                                                                                                         |
| MI2 | Instrument software did not integrate                                                                                                                                                                                               |
| MI3 | Instrument software misidentified the peak                                                                                                                                                                                          |
| MI4 | Instrument software integrated improperly                                                                                                                                                                                           |
| MI5 | Baseline correction                                                                                                                                                                                                                 |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |

| F   | Description                                      |
|-----|--------------------------------------------------|
| Qsr | Surrogate recovery outside of laboratory limits. |
| U   | The analyte is not detected above the SDL        |

**Attachments**

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.





## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Curt Stanley  
TRC Solutions  
2057 Commerce  
Midland, Tx, 79703

Report Date: August 3, 2015

Work Order: 15072808



Project Location: Lovington, NM  
Project Name: Townsend 97-04  
Project Number: Townsend 97-04

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 |
|--------|-------------|--------|------------|------------|---------------|
| 400042 | Post        | water  | 2015-07-27 | 14:00      | 2015-07-28    |

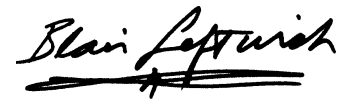
## Notes

- **Work Order 15072808:** 24HR TAT on BTEX, Hold for PAH

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.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent horizontal line underneath.

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

# Report Contents

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## Case Narrative

Samples for project Townsend 97-04 were received by TraceAnalysis, Inc. on 2015-07-28 and assigned to work order 15072808. Samples for work order 15072808 were received intact at a temperature of 19.3 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 | 104451        | 2015-07-29 at 12:41 | 123522      | 2015-07-29 at 12:41 |
| PAH  | S 8270D | 104559        | 2015-07-31 at 15:00 | 123643      | 2015-08-03 at 12:20 |

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 15072808 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: August 3, 2015  
Townsend 97-04

Work Order: 15072808  
Townsend 97-04

Page Number: 5 of 15  
Lovington, NM

# Analytical Report

## Sample: 400042 - Post

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 123522  
Prep Batch: 104451

Analytical Method: S 8021B  
Date Analyzed: 2015-07-29  
Sample Preparation: 2015-07-29

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

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL      |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0992 | mg/L  | 1        | 0.100           | 99                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0947 | mg/L  | 1        | 0.100           | 95                  | 70 - 130           |

## Sample: 400042 - Post

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 123643  
Prep Batch: 104559

Analytical Method: S 8270D  
Date Analyzed: 2015-08-03  
Sample Preparation: 2015-07-31

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter           | Flag | Cert      | RL<br>Result | Units | Dilution | RL       |
|---------------------|------|-----------|--------------|-------|----------|----------|
| Naphthalene         | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| 2-Methylnaphthalene | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| 1-Methylnaphthalene | U    | 1         | <0.000200    | mg/L  | 1        | 0.000200 |
| Acenaphthylene      | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Acenaphthene        | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Dibenzofuran        | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Fluorene            | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Anthracene          | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Phenanthrene        | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Fluoranthene        | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Pyrene              | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Benzo(a)anthracene  | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Chrysene            | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |

*continued ...*

Report Date: August 3, 2015  
Townsend 97-04

Work Order: 15072808  
Townsend 97-04

Page Number: 6 of 15  
Lovington, NM

*sample 400042 continued ...*

| Parameter              | Flag | Cert      | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|-----------|--------------|-------|----------|----------|
| Benzo(b)fluoranthene   | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Benzo(k)fluoranthene   | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Benzo(a)pyrene         | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Indeno(1,2,3-cd)pyrene | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Dibenzo(a,h)anthracene | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Benzo(g,h,i)perylene   | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |

| Surrogate        | Flag            | Cert            | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|-----------------|-----------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  | Q <sub>sr</sub> | Q <sub>sr</sub> | 0.708  | mg/L  | 1        | 8.00            | 9                   | 10 - 120           |
| 2-Fluorobiphenyl | Q <sub>sr</sub> | Q <sub>sr</sub> | 1.17   | mg/L  | 1        | 8.00            | 15                  | 35.9 - 120         |
| Terphenyl-d14    | Q <sub>sr</sub> | Q <sub>sr</sub> | 1.32   | mg/L  | 1        | 8.00            | 16                  | 23.2 - 120         |

## Method Blanks

### Method Blank (1) QC Batch: 123522

QC Batch: 123522 Date Analyzed: 2015-07-29 Analyzed By: AK  
Prep Batch: 104451 QC Preparation: 2015-07-29 Prepared By: AK

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL    |
|--------------|------|------|---------------|-------|-------|
| Benzene      |      | 5    | <0.000299     | mg/L  | 0.001 |
| Toluene      |      | 5    | <0.000247     | mg/L  | 0.001 |
| Ethylbenzene |      | 5    | <0.000423     | mg/L  | 0.001 |
| Xylene       |      | 5    | <0.000552     | mg/L  | 0.001 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0927 | mg/L  | 1        | 0.100           | 93                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0871 | mg/L  | 1        | 0.100           | 87                  | 70 - 130           |

### Method Blank (1) QC Batch: 123643

QC Batch: 123643 Date Analyzed: 2015-08-03 Analyzed By: MN  
Prep Batch: 104559 QC Preparation: 2015-07-31 Prepared By: MN

| Parameter            | Flag | Cert      | MDL<br>Result | Units | RL     |
|----------------------|------|-----------|---------------|-------|--------|
| Naphthalene          |      | 1,2,3,4,6 | <0.0000656    | mg/L  | 0.0002 |
| 2-Methylnaphthalene  |      | 1,2,3,4,6 | <0.0000516    | mg/L  | 0.0002 |
| 1-Methylnaphthalene  |      | 1         | <0.0000663    | mg/L  | 0.0002 |
| Acenaphthylene       |      | 1,2,3,4,6 | <0.0000581    | mg/L  | 0.0002 |
| Acenaphthene         |      | 1,2,3,4,6 | <0.0000332    | mg/L  | 0.0002 |
| Dibenzofuran         |      | 1,2,3,4,6 | <0.0000607    | mg/L  | 0.0002 |
| Fluorene             |      | 1,2,3,4,6 | <0.0000788    | mg/L  | 0.0002 |
| Anthracene           |      | 1,2,3,4,6 | <0.0000321    | mg/L  | 0.0002 |
| Phenanthrene         |      | 1,2,3,4,6 | <0.0000516    | mg/L  | 0.0002 |
| Fluoranthene         |      | 1,2,3,4,6 | <0.0000638    | mg/L  | 0.0002 |
| Pyrene               |      | 1,2,3,4,6 | <0.0000415    | mg/L  | 0.0002 |
| Benzo(a)anthracene   |      | 1,2,3,4,6 | <0.0000721    | mg/L  | 0.0002 |
| Chrysene             |      | 1,2,3,4,6 | <0.0000811    | mg/L  | 0.0002 |
| Benzo(b)fluoranthene |      | 1,2,3,4,6 | <0.0000710    | mg/L  | 0.0002 |
| Benzo(k)fluoranthene |      | 1,2,3,4,6 | <0.0000561    | mg/L  | 0.0002 |
| Benzo(a)pyrene       |      | 1,2,3,4,6 | <0.0000418    | mg/L  | 0.0002 |

*continued ...*

Report Date: August 3, 2015  
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*method blank continued ...*

| Parameter              | Flag | Cert      | MDL<br>Result | Units | RL     |
|------------------------|------|-----------|---------------|-------|--------|
| Indeno(1,2,3-cd)pyrene |      | 1,2,3,4,6 | <0.0000537    | mg/L  | 0.0002 |
| Dibenzo(a,h)anthracene |      | 1,2,3,4,6 | <0.0000562    | mg/L  | 0.0002 |
| Benzo(g,h,i)perylene   |      | 1,2,3,4,6 | <0.0000519    | mg/L  | 0.0002 |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      |      | 4.58   | mg/L  | 1        | 8.00            | 57                  | 10 - 120           |
| 2-Fluorobiphenyl |      |      | 7.92   | mg/L  | 1        | 8.00            | 99                  | 35.9 - 120         |
| Terphenyl-d14    |      |      | 9.46   | mg/L  | 1        | 8.00            | 118                 | 23.2 - 120         |

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 123522  
Prep Batch: 104451

Date Analyzed: 2015-07-29  
QC Preparation: 2015-07-29

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.0962        | mg/L  | 1    | 0.100           | <0.000299        | 96   | 70 - 130      |
| Toluene      |   | 5 | 0.0897        | mg/L  | 1    | 0.100           | <0.000247        | 90   | 70 - 130      |
| Ethylbenzene |   | 5 | 0.0890        | mg/L  | 1    | 0.100           | <0.000423        | 89   | 70 - 130      |
| Xylene       |   | 5 | 0.273         | mg/L  | 1    | 0.300           | <0.000552        | 91   | 70 - 130      |

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

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.0949        | mg/L  | 1    | 0.100           | <0.000299        | 95   | 70 - 130      | 1   | 20           |
| Toluene      |   | 5 | 0.0907        | mg/L  | 1    | 0.100           | <0.000247        | 91   | 70 - 130      | 1   | 20           |
| Ethylbenzene |   | 5 | 0.0874        | mg/L  | 1    | 0.100           | <0.000423        | 87   | 70 - 130      | 2   | 20           |
| Xylene       |   | 5 | 0.270         | mg/L  | 1    | 0.300           | <0.000552        | 90   | 70 - 130      | 1   | 20           |

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

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 0.0938        | 0.0852        | mg/L  | 1    | 0.100           | 94          | 85          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0907        | 0.0832        | mg/L  | 1    | 0.100           | 91          | 83          | 70 - 130      |

### Laboratory Control Spike (LCS-1)

QC Batch: 123643  
Prep Batch: 104559

Date Analyzed: 2015-08-03  
QC Preparation: 2015-07-31

Analyzed By: MN  
Prepared By: MN

| Param               | F | C         | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|---------------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Naphthalene         |   | 1,2,3,4,6 | 6.71          | mg/L  | 1    | 8.00            | <0.0000656       | 84   | 49.7 - 120    |
| 2-Methylnaphthalene |   | 1,2,3,4,6 | 5.92          | mg/L  | 1    | 8.00            | <0.0000516       | 74   | 44.6 - 120    |
| 1-Methylnaphthalene |   | 1         | 10.5          | mg/L  | 1    | 8.00            | <0.0000663       | 131  | 10 - 189      |
| Acenaphthylene      |   | 1,2,3,4,6 | 8.79          | mg/L  | 1    | 8.00            | <0.0000581       | 110  | 40.9 - 120    |
| Acenaphthene        |   | 1,2,3,4,6 | 7.20          | mg/L  | 1    | 8.00            | <0.0000332       | 90   | 49.9 - 120    |

*continued ...*

control spikes continued ...

| Param                  | F | C         | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Dibenzofuran           |   | 1,2,3,4,6 | 7.24          | mg/L  | 1    | 8.00            | <0.0000607       | 90   | 34 - 120      |
| Fluorene               |   | 1,2,3,4,6 | 6.32          | mg/L  | 1    | 8.00            | <0.0000788       | 79   | 49.7 - 120    |
| Anthracene             |   | 1,2,3,4,6 | 11.8          | mg/L  | 1    | 8.00            | <0.0000321       | 148  | 11.4 - 155    |
| Phenanthrene           |   | 1,2,3,4,6 | 6.16          | mg/L  | 1    | 8.00            | <0.0000516       | 77   | 41 - 120      |
| Fluoranthene           |   | 1,2,3,4,6 | 5.72          | mg/L  | 1    | 8.00            | <0.0000638       | 72   | 35.7 - 120    |
| Pyrene                 |   | 1,2,3,4,6 | 9.95          | mg/L  | 1    | 8.00            | <0.0000415       | 124  | 19.5 - 139    |
| Benzo(a)anthracene     |   | 1,2,3,4,6 | 7.01          | mg/L  | 1    | 8.00            | <0.0000721       | 88   | 53.4 - 120    |
| Chrysene               |   | 1,2,3,4,6 | 6.62          | mg/L  | 1    | 8.00            | <0.0000811       | 83   | 10 - 170      |
| Benzo(b)fluoranthene   |   | 1,2,3,4,6 | 5.94          | mg/L  | 1    | 8.00            | <0.0000710       | 74   | 29.2 - 120    |
| Benzo(k)fluoranthene   |   | 1,2,3,4,6 | 6.52          | mg/L  | 1    | 8.00            | <0.0000561       | 82   | 23.4 - 120    |
| Benzo(a)pyrene         |   | 1,2,3,4,6 | 6.80          | mg/L  | 1    | 8.00            | <0.0000418       | 85   | 23.4 - 120    |
| Indeno(1,2,3-cd)pyrene |   | 1,2,3,4,6 | 2.22          | mg/L  | 1    | 8.00            | <0.0000537       | 28   | 10 - 129      |
| Dibenzo(a,h)anthracene |   | 1,2,3,4,6 | 3.38          | mg/L  | 1    | 8.00            | <0.0000562       | 42   | 10 - 174      |
| Benzo(g,h,i)perylene   |   | 1,2,3,4,6 | 6.57          | mg/L  | 1    | 8.00            | <0.0000519       | 82   | 30.6 - 120    |

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

| Param                  | F  | C            | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|----|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Naphthalene            |    | 1,2,3,4,6    | 7.10          | mg/L  | 1    | 8.00            | <0.0000656       | 89   | 49.7 - 120    | 6   | 20           |
| 2-Methylnaphthalene    |    | 1,2,3,4,6    | 6.39          | mg/L  | 1    | 8.00            | <0.0000516       | 80   | 44.6 - 120    | 8   | 20           |
| 1-Methylnaphthalene    |    | 1            | 11.3          | mg/L  | 1    | 8.00            | <0.0000663       | 141  | 10 - 189      | 7   | 20           |
| Acenaphthylene         |    | 1,2,3,4,6    | 9.43          | mg/L  | 1    | 8.00            | <0.0000581       | 118  | 40.9 - 120    | 7   | 20           |
| Acenaphthene           |    | 1,2,3,4,6    | 7.60          | mg/L  | 1    | 8.00            | <0.0000332       | 95   | 49.9 - 120    | 5   | 20           |
| Dibenzofuran           |    | 1,2,3,4,6    | 7.63          | mg/L  | 1    | 8.00            | <0.0000607       | 95   | 34 - 120      | 5   | 20           |
| Fluorene               |    | 1,2,3,4,6    | 6.76          | mg/L  | 1    | 8.00            | <0.0000788       | 84   | 49.7 - 120    | 7   | 20           |
| Anthracene             | Qs | Qs 1,2,3,4,6 | 12.4          | mg/L  | 1    | 8.00            | <0.0000321       | 155  | 11.4 - 155    | 5   | 20           |
| Phenanthrene           |    | 1,2,3,4,6    | 6.50          | mg/L  | 1    | 8.00            | <0.0000516       | 81   | 41 - 120      | 5   | 20           |
| Fluoranthene           |    | 1,2,3,4,6    | 6.02          | mg/L  | 1    | 8.00            | <0.0000638       | 75   | 35.7 - 120    | 5   | 20           |
| Pyrene                 |    | 1,2,3,4,6    | 10.5          | mg/L  | 1    | 8.00            | <0.0000415       | 131  | 19.5 - 139    | 5   | 20           |
| Benzo(a)anthracene     |    | 1,2,3,4,6    | 7.26          | mg/L  | 1    | 8.00            | <0.0000721       | 91   | 53.4 - 120    | 4   | 20           |
| Chrysene               |    | 1,2,3,4,6    | 6.91          | mg/L  | 1    | 8.00            | <0.0000811       | 86   | 10 - 170      | 4   | 20           |
| Benzo(b)fluoranthene   |    | 1,2,3,4,6    | 6.16          | mg/L  | 1    | 8.00            | <0.0000710       | 77   | 29.2 - 120    | 4   | 20           |
| Benzo(k)fluoranthene   |    | 1,2,3,4,6    | 6.23          | mg/L  | 1    | 8.00            | <0.0000561       | 78   | 23.4 - 120    | 4   | 20           |
| Benzo(a)pyrene         |    | 1,2,3,4,6    | 7.07          | mg/L  | 1    | 8.00            | <0.0000418       | 88   | 23.4 - 120    | 4   | 20           |
| Indeno(1,2,3-cd)pyrene |    | 1,2,3,4,6    | 2.04          | mg/L  | 1    | 8.00            | <0.0000537       | 26   | 10 - 129      | 8   | 20           |
| Dibenzo(a,h)anthracene |    | 1,2,3,4,6    | 3.78          | mg/L  | 1    | 8.00            | <0.0000562       | 47   | 10 - 174      | 11  | 20           |
| Benzo(g,h,i)perylene   |    | 1,2,3,4,6    | 6.98          | mg/L  | 1    | 8.00            | <0.0000519       | 87   | 30.6 - 120    | 6   | 20           |

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

| Surrogate        | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Nitrobenzene-d5  | 3.37          | 3.54          | mg/L  | 1    | 8.00            | 42          | 44          | 10 - 120      |
| 2-Fluorobiphenyl | 6.23          | 6.46          | mg/L  | 1    | 8.00            | 78          | 81          | 35.9 - 120    |
| Terphenyl-d14    | 7.18          | 7.62          | mg/L  | 1    | 8.00            | 90          | 95          | 23.2 - 120    |

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Townsend 97-04

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## Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 399492

QC Batch: 123522  
Prep Batch: 104451

Date Analyzed: 2015-07-29  
QC Preparation: 2015-07-29

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.0964       | mg/L  | 1    | 0.100           | <0.000299        | 96   | 70 - 130      |
| Toluene      |   | 5 | 0.0927       | mg/L  | 1    | 0.100           | <0.000247        | 93   | 70 - 130      |
| Ethylbenzene |   | 5 | 0.0903       | mg/L  | 1    | 0.100           | <0.000423        | 90   | 70 - 130      |
| Xylene       |   | 5 | 0.280        | mg/L  | 1    | 0.300           | <0.000552        | 93   | 70 - 130      |

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

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.0967        | mg/L  | 1    | 0.100           | <0.000299        | 97   | 70 - 130      | 0   | 20           |
| Toluene      |   | 5 | 0.0952        | mg/L  | 1    | 0.100           | <0.000247        | 95   | 70 - 130      | 3   | 20           |
| Ethylbenzene |   | 5 | 0.0925        | mg/L  | 1    | 0.100           | <0.000423        | 92   | 70 - 130      | 2   | 20           |
| Xylene       |   | 5 | 0.285         | mg/L  | 1    | 0.300           | <0.000552        | 95   | 70 - 130      | 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)       | 0.0905       | 0.0861        | mg/L  | 1    | 0.1             | 90         | 86          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0933       | 0.0885        | mg/L  | 1    | 0.1             | 93         | 88          | 70 - 130      |

## Calibration Standards

### Standard (CCV-2)

QC Batch: 123522

Date Analyzed: 2015-07-29

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.0894                 | 89                          | 80 - 120                      | 2015-07-29       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.0877                 | 88                          | 80 - 120                      | 2015-07-29       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.0851                 | 85                          | 80 - 120                      | 2015-07-29       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.264                  | 88                          | 80 - 120                      | 2015-07-29       |

### Standard (CCV-3)

QC Batch: 123522

Date Analyzed: 2015-07-29

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.0991                 | 99                          | 80 - 120                      | 2015-07-29       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.0967                 | 97                          | 80 - 120                      | 2015-07-29       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.0925                 | 92                          | 80 - 120                      | 2015-07-29       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.285                  | 95                          | 80 - 120                      | 2015-07-29       |

### Standard (CCV-1)

QC Batch: 123643

Date Analyzed: 2015-08-03

Analyzed By: MN

| Param               | Flag | Cert      | 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         |      | 1,2,3,4,6 | mg/L  | 60.0                  | 57.5                   | 96                          | 80 - 120                      | 2015-08-03       |
| 2-Methylnaphthalene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 55.0                   | 92                          | 80 - 120                      | 2015-08-03       |
| 1-Methylnaphthalene |      | 1         | mg/L  | 60.0                  | 53.1                   | 88                          | 80 - 120                      | 2015-08-03       |
| Acenaphthylene      |      | 1,2,3,4,6 | mg/L  | 60.0                  | 58.3                   | 97                          | 80 - 120                      | 2015-08-03       |
| Acenaphthene        |      | 1,2,3,4,6 | mg/L  | 60.0                  | 56.5                   | 94                          | 80 - 120                      | 2015-08-03       |
| Dibenzofuran        |      | 1,2,3,4,6 | mg/L  | 60.0                  | 62.4                   | 104                         | 80 - 120                      | 2015-08-03       |
| Fluorene            |      | 1,2,3,4,6 | mg/L  | 60.0                  | 64.0                   | 107                         | 80 - 120                      | 2015-08-03       |

*continued ...*

*standard continued ...*

| Param                  | Flag | Cert      | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Anthracene             |      | 1,2,3,4,6 | mg/L  | 60.0                  | 55.8                   | 93                          | 80 - 120                      | 2015-08-03       |
| Phenanthrene           |      | 1,2,3,4,6 | mg/L  | 60.0                  | 57.2                   | 95                          | 80 - 120                      | 2015-08-03       |
| Fluoranthene           |      | 1,2,3,4,6 | mg/L  | 60.0                  | 49.2                   | 82                          | 80 - 120                      | 2015-08-03       |
| Pyrene                 |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.9                   | 102                         | 80 - 120                      | 2015-08-03       |
| Benzo(a)anthracene     |      | 1,2,3,4,6 | mg/L  | 60.0                  | 59.9                   | 100                         | 80 - 120                      | 2015-08-03       |
| Chrysene               |      | 1,2,3,4,6 | mg/L  | 60.0                  | 62.0                   | 103                         | 80 - 120                      | 2015-08-03       |
| Benzo(b)fluoranthene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 58.9                   | 98                          | 80 - 120                      | 2015-08-03       |
| Benzo(k)fluoranthene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 52.2                   | 87                          | 80 - 120                      | 2015-08-03       |
| Benzo(a)pyrene         |      | 1,2,3,4,6 | mg/L  | 60.0                  | 57.8                   | 96                          | 80 - 120                      | 2015-08-03       |
| Indeno(1,2,3-cd)pyrene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 58.3                   | 97                          | 80 - 120                      | 2015-08-03       |
| Dibenzo(a,h)anthracene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 61.7                   | 103                         | 80 - 120                      | 2015-08-03       |
| Benzo(g,h,i)perylene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 57.9                   | 96                          | 80 - 120                      | 2015-08-03       |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |      |      | 62.1   | mg/L  | 1        | 60.0            | 104                 | -                 |
| 2-Fluorobiphenyl |      |      | 58.5   | mg/L  | 1        | 60.0            | 98                  | -                 |
| Terphenyl-d14    |      |      | 62.6   | mg/L  | 1        | 60.0            | 104                 | -                 |

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | L-A-B                | L2418                | Lubbock             |
| 2 | Kansas               | Kansas E-10317       | Lubbock             |
| 3 | LELAP                | LELAP-02003          | Lubbock             |
| 4 | NELAP                | T104704219-15-11     | Lubbock             |
| 5 | NELAP                | T104704392-14-8      | Midland             |
| 6 |                      | 2014-018             | Lubbock             |

## Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| MI1 | Split peak or shoulder peak                                                                                                                                                                                                         |
| MI2 | Instrument software did not integrate                                                                                                                                                                                               |
| MI3 | Instrument software misidentified the peak                                                                                                                                                                                          |
| MI4 | Instrument software integrated improperly                                                                                                                                                                                           |
| MI5 | Baseline correction                                                                                                                                                                                                                 |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |

| F   | Description                                      |
|-----|--------------------------------------------------|
| Qsr | Surrogate recovery outside of laboratory limits. |
| U   | The analyte is not detected above the SDL        |

---

## Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

# TraceAnalysis, Inc.

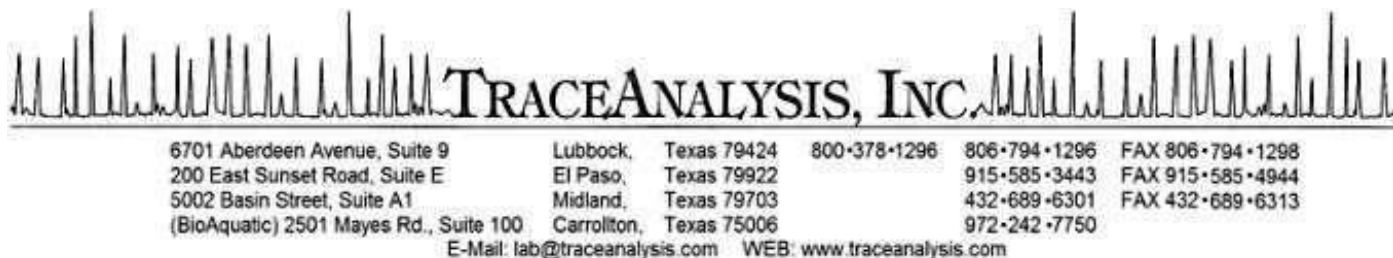
email: [lab@traceanalysis.com](mailto:lab@traceanalysis.com)

6701 Aberdeen Avenue, Suite 9  
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BioAquatic Testing  
2501 Mayes Rd., Ste 100  
**Carrollton, Texas 75006**  
Tel (972) 242-7750

[illegible]



## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Curt Stanley  
TRC Solutions  
2057 Commerce  
Midland, Tx, 79703

Report Date: August 21, 2015

Work Order: 15081910



Project Location: Lovington, NM  
Project Name: Townsend  
Project Number: TNM 9704

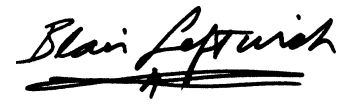
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 402649 | MW 13       | water  | 2015-08-18 | 12:37      | 2015-08-19    |
| 402650 | MW 18       | water  | 2015-08-18 | 13:10      | 2015-08-19    |
| 402651 | MW 15       | water  | 2015-08-18 | 13:42      | 2015-08-19    |
| 402652 | MW 14       | water  | 2015-08-18 | 14:11      | 2015-08-19    |
| 402653 | MW 6        | water  | 2015-08-18 | 14:39      | 2015-08-19    |

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.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent flourish at the end. Below the signature is a horizontal line.

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

# Report Contents

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## Case Narrative

Samples for project Townsend were received by TraceAnalysis, Inc. on 2015-08-19 and assigned to work order 15081910. Samples for work order 15081910 were received intact at a temperature of 13.1 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 | 105021        | 2015-08-20 at 09:21 | 124237      | 2015-08-21 at 09:37 |

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 15081910 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: 402649 - MW 13

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 124237  
Prep Batch: 105021

Analytical Method: S 8021B  
Date Analyzed: 2015-08-21  
Sample Preparation: 2015-08-20

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

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL      |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.114  | mg/L  | 1        | 0.100           | 114                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0858 | mg/L  | 1        | 0.100           | 86                  | 70 - 130           |

## Sample: 402650 - MW 18

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 124237  
Prep Batch: 105021

Analytical Method: S 8021B  
Date Analyzed: 2015-08-21  
Sample Preparation: 2015-08-20

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

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL      |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.109  | mg/L  | 1        | 0.100           | 109                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0855 | mg/L  | 1        | 0.100           | 86                  | 70 - 130           |

Report Date: August 21, 2015  
TNM 9704

Work Order: 15081910  
Townsend

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Lovington, NM

**Sample: 402651 - MW 15**

Laboratory: Midland

Analysis: BTEX

QC Batch: 124237

Prep Batch: 105021

Analytical Method: S 8021B

Date Analyzed: 2015-08-21

Sample Preparation: 2015-08-20

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL      |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.109  | mg/L  | 1        | 0.100           | 109                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0817 | mg/L  | 1        | 0.100           | 82                  | 70 - 130           |

**Sample: 402652 - MW 14**

Laboratory: Midland

Analysis: BTEX

QC Batch: 124237

Prep Batch: 105021

Analytical Method: S 8021B

Date Analyzed: 2015-08-21

Sample Preparation: 2015-08-20

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

| Parameter    | Flag | Cert | RL<br>Result  | Units | Dilution | RL      |
|--------------|------|------|---------------|-------|----------|---------|
| Benzene      | U    | 5    | <0.00100      | mg/L  | 1        | 0.00100 |
| Toluene      | U    | 5    | <0.00100      | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | 5    | <0.00100      | mg/L  | 1        | 0.00100 |
| Xylene       |      | 5    | <b>0.0126</b> | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.109  | mg/L  | 1        | 0.100           | 109                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0854 | mg/L  | 1        | 0.100           | 85                  | 70 - 130           |

Report Date: August 21, 2015  
TNM 9704

Work Order: 15081910  
Townsend

Page Number: 7 of 13  
Lovington, NM

**Sample: 402653 - MW 6**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 124237  
Prep Batch: 105021

Analytical Method: S 8021B  
Date Analyzed: 2015-08-21  
Sample Preparation: 2015-08-20

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

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL      |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene      |      | 5    | <b>0.324</b> | mg/L  | 50       | 0.00100 |
| Toluene      | u    | 5    | <0.0500      | mg/L  | 50       | 0.00100 |
| Ethylbenzene |      | 5    | <0.0500      | mg/L  | 50       | 0.00100 |
| Xylene       |      | 5    | <b>0.158</b> | mg/L  | 50       | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 5.27   | mg/L  | 50       | 5.00            | 105                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 4.12   | mg/L  | 50       | 5.00            | 82                  | 70 - 130           |

Method Blanks

Method Blank (1)      QC Batch: 124237

QC Batch: 124237  
Prep Batch: 105021

Date Analyzed: 2015-08-21  
QC Preparation: 2015-08-20

Analyzed By: AK  
Prepared By: AK

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL    |
|--------------|------|------|---------------|-------|-------|
| Benzene      |      | 5    | <0.000299     | mg/L  | 0.001 |
| Toluene      |      | 5    | <0.000247     | mg/L  | 0.001 |
| Ethylbenzene |      | 5    | <0.000423     | mg/L  | 0.001 |
| Xylene       |      | 5    | <0.000552     | mg/L  | 0.001 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.106  | mg/L  | 1        | 0.100           | 106                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0839 | mg/L  | 1        | 0.100           | 84                  | 70 - 130           |

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 124237  
Prep Batch: 105021

Date Analyzed: 2015-08-21  
QC Preparation: 2015-08-20

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.0972        | mg/L  | 1    | 0.100           | <0.000299        | 97   | 70 - 130      |
| Toluene      |   | 5 | 0.0967        | mg/L  | 1    | 0.100           | <0.000247        | 97   | 70 - 130      |
| Ethylbenzene |   | 5 | 0.0961        | mg/L  | 1    | 0.100           | <0.000423        | 96   | 70 - 130      |
| Xylene       |   | 5 | 0.293         | mg/L  | 1    | 0.300           | <0.000552        | 98   | 70 - 130      |

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

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.0979        | mg/L  | 1    | 0.100           | <0.000299        | 98   | 70 - 130      | 1   | 20           |
| Toluene      |   | 5 | 0.0960        | mg/L  | 1    | 0.100           | <0.000247        | 96   | 70 - 130      | 1   | 20           |
| Ethylbenzene |   | 5 | 0.0946        | mg/L  | 1    | 0.100           | <0.000423        | 95   | 70 - 130      | 2   | 20           |
| Xylene       |   | 5 | 0.291         | mg/L  | 1    | 0.300           | <0.000552        | 97   | 70 - 130      | 1   | 20           |

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

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 0.0936        | 0.105         | mg/L  | 1    | 0.100           | 94          | 105         | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0775        | 0.0859        | mg/L  | 1    | 0.100           | 78          | 86          | 70 - 130      |

## Matrix Spikes

**Matrix Spike (MS-1)**      Spiked Sample: 402199

QC Batch: 124237  
Prep Batch: 105021

Date Analyzed: 2015-08-21  
QC Preparation: 2015-08-20

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.103        | mg/L  | 1    | 0.100           | <0.000299        | 103  | 70 - 130      |
| Toluene      |   | 5 | 0.102        | mg/L  | 1    | 0.100           | <0.000247        | 102  | 70 - 130      |
| Ethylbenzene |   | 5 | 0.101        | mg/L  | 1    | 0.100           | <0.000423        | 101  | 70 - 130      |
| Xylene       |   | 5 | 0.306        | mg/L  | 1    | 0.300           | <0.000552        | 102  | 70 - 130      |

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

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.107         | mg/L  | 1    | 0.100           | <0.000299        | 107  | 70 - 130      | 4   | 20           |
| Toluene      |   | 5 | 0.105         | mg/L  | 1    | 0.100           | <0.000247        | 105  | 70 - 130      | 3   | 20           |
| Ethylbenzene |   | 5 | 0.105         | mg/L  | 1    | 0.100           | <0.000423        | 105  | 70 - 130      | 4   | 20           |
| Xylene       |   | 5 | 0.317         | mg/L  | 1    | 0.300           | <0.000552        | 106  | 70 - 130      | 4   | 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)       | 0.109        | 0.110         | mg/L  | 1    | 0.1             | 109        | 110         | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0897       | 0.0892        | mg/L  | 1    | 0.1             | 90         | 89          | 70 - 130      |

## Calibration Standards

### Standard (CCV-2)

QC Batch: 124237

Date Analyzed: 2015-08-21

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.0974                 | 97                          | 80 - 120                      | 2015-08-21       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.0949                 | 95                          | 80 - 120                      | 2015-08-21       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.0934                 | 93                          | 80 - 120                      | 2015-08-21       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.284                  | 95                          | 80 - 120                      | 2015-08-21       |

### Standard (CCV-3)

QC Batch: 124237

Date Analyzed: 2015-08-21

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.0943                 | 94                          | 80 - 120                      | 2015-08-21       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.0915                 | 92                          | 80 - 120                      | 2015-08-21       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.0909                 | 91                          | 80 - 120                      | 2015-08-21       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.276                  | 92                          | 80 - 120                      | 2015-08-21       |

## Appendix

### Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

### Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | L-A-B                | L2418                | Lubbock             |
| 2 | Kansas               | Kansas E-10317       | Lubbock             |
| 3 | LELAP                | LELAP-02003          | Lubbock             |
| 4 | NELAP                | T104704219-15-11     | Lubbock             |
| 5 | NELAP                | T104704392-14-8      | Midland             |
| 6 |                      | 2014-018             | Lubbock             |

### Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| MI1 | Split peak or shoulder peak                                                                                                                                                                                                         |
| MI2 | Instrument software did not integrate                                                                                                                                                                                               |
| MI3 | Instrument software misidentified the peak                                                                                                                                                                                          |
| MI4 | Instrument software integrated improperly                                                                                                                                                                                           |
| MI5 | Baseline correction                                                                                                                                                                                                                 |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |

| F   | Description                                      |
|-----|--------------------------------------------------|
| Qsr | Surrogate recovery outside of laboratory limits. |
| U   | The analyte is not detected above the SDL        |

**Attachments**

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

Page \_\_\_\_\_ of \_\_\_\_\_

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

**Brandon & Clark**  
3403 Industrial Blvd.  
**Hobbs, NM 88240**  
Tel (575) 392-7561  
Fax (575) 392-4508

Fax (575) 392-4508

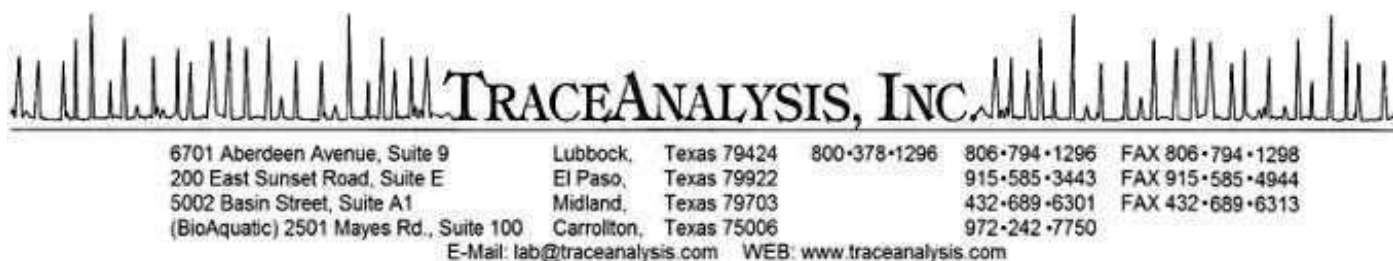
**ANALYSIS REQUEST**  
(Circle or Specify Method)

|                                                                                                 |                                    |
|-------------------------------------------------------------------------------------------------|------------------------------------|
| MI RE                                                                                           | 8021 / 602 / 8260 / 624            |
| BTEX                                                                                            | 8021 / 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, F, SO <sub>4</sub> , NO <sub>3</sub> -N, NO <sub>2</sub> -N, PO <sub>4</sub> -P, Alkalinity |                                    |
| Na, Ca, Mg, K, TDS, EC                                                                          |                                    |
| Turn Around Time if different from standard                                                     |                                    |
| Hold                                                                                            |                                    |

REMARKS:

2

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## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Curt Stanley  
TRC Solutions  
2057 Commerce  
Midland, Tx, 79703

Report Date: August 26, 2015

Work Order: 15082417



Project Location: Lovington, NM  
Project Name: Townsend Plains Marketing  
Project Number: Plains Marketing

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 |
|--------|-------------|--------|------------|------------|---------------|
| 403129 | Post        | water  | 2015-08-24 | 13:05      | 2015-08-24    |

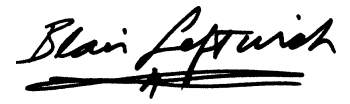
## Notes

- **Work Order 15082417:** Run PAH only if BTEX is detected.

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.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent horizontal stroke at the end.

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

# Report Contents

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## Case Narrative

Samples for project Townsend Plains Marketing were received by TraceAnalysis, Inc. on 2015-08-24 and assigned to work order 15082417. Samples for work order 15082417 were received intact at a temperature of 12.9 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 | 105134        | 2015-08-25 at 15:22 | 124337      | 2015-08-25 at 15:22 |

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 15082417 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: 403129 - Post

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 124337  
Prep Batch: 105134

Analytical Method: S 8021B  
Date Analyzed: 2015-08-25  
Sample Preparation: 2015-08-25

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

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

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.117  | mg/L  | 1        | 0.100           | 117                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.105  | mg/L  | 1        | 0.100           | 105                 | 70 - 130           |

Report Date: August 26, 2015  
Plains Marketing

Work Order: 15082417  
Townsend Plains Marketing

Page Number: 6 of 11  
Lovington, NM

## Method Blanks

Method Blank (1)      QC Batch: 124337

QC Batch: 124337  
Prep Batch: 105134

Date Analyzed: 2015-08-25  
QC Preparation: 2015-08-25

Analyzed By: AK  
Prepared By: AK

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL    |
|--------------|------|------|---------------|-------|-------|
| Benzene      |      | 1    | <0.000423     | mg/L  | 0.001 |
| Toluene      |      | 1    | <0.000238     | mg/L  | 0.001 |
| Ethylbenzene |      | 1    | <0.000283     | mg/L  | 0.001 |
| Xylene       |      | 1    | <0.000282     | mg/L  | 0.001 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.117  | mg/L  | 1        | 0.100           | 117                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.107  | mg/L  | 1        | 0.100           | 107                 | 70 - 130           |

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 124337  
Prep Batch: 105134

Date Analyzed: 2015-08-25  
QC Preparation: 2015-08-25

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 1 | 0.113         | mg/L  | 1    | 0.100           | <0.000423        | 113  | 70 - 130      |
| Toluene      |   | 1 | 0.112         | mg/L  | 1    | 0.100           | <0.000238        | 112  | 70 - 130      |
| Ethylbenzene |   | 1 | 0.111         | mg/L  | 1    | 0.100           | <0.000283        | 111  | 70 - 130      |
| Xylene       |   | 1 | 0.324         | mg/L  | 1    | 0.300           | <0.000282        | 108  | 70 - 130      |

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

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 1 | 0.114         | mg/L  | 1    | 0.100           | <0.000423        | 114  | 70 - 130      | 1   | 20           |
| Toluene      |   | 1 | 0.114         | mg/L  | 1    | 0.100           | <0.000238        | 114  | 70 - 130      | 2   | 20           |
| Ethylbenzene |   | 1 | 0.112         | mg/L  | 1    | 0.100           | <0.000283        | 112  | 70 - 130      | 1   | 20           |
| Xylene       |   | 1 | 0.328         | mg/L  | 1    | 0.300           | <0.000282        | 109  | 70 - 130      | 1   | 20           |

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

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 0.115         | 0.117         | mg/L  | 1    | 0.100           | 115         | 117         | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.120         | 0.120         | mg/L  | 1    | 0.100           | 120         | 120         | 70 - 130      |

## Matrix Spikes

**Matrix Spike (MS-1)**      Spiked Sample: 403129

QC Batch: 124337  
Prep Batch: 105134

Date Analyzed: 2015-08-25  
QC Preparation: 2015-08-25

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 1 | 0.110        | mg/L  | 1    | 0.100           | <0.000423        | 110  | 70 - 130      |
| Toluene      |   | 1 | 0.108        | mg/L  | 1    | 0.100           | <0.000238        | 108  | 70 - 130      |
| Ethylbenzene |   | 1 | 0.105        | mg/L  | 1    | 0.100           | <0.000283        | 105  | 70 - 130      |
| Xylene       |   | 1 | 0.306        | mg/L  | 1    | 0.300           | <0.000282        | 102  | 70 - 130      |

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

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 1 | 0.115         | mg/L  | 1    | 0.100           | <0.000423        | 115  | 70 - 130      | 4   | 20           |
| Toluene      |   | 1 | 0.113         | mg/L  | 1    | 0.100           | <0.000238        | 113  | 70 - 130      | 4   | 20           |
| Ethylbenzene |   | 1 | 0.111         | mg/L  | 1    | 0.100           | <0.000283        | 111  | 70 - 130      | 6   | 20           |
| Xylene       |   | 1 | 0.322         | mg/L  | 1    | 0.300           | <0.000282        | 107  | 70 - 130      | 5   | 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)       | 0.116        | 0.124         | mg/L  | 1    | 0.1             | 116        | 124         | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.122        | 0.119         | mg/L  | 1    | 0.1             | 122        | 119         | 70 - 130      |

## Calibration Standards

### Standard (CCV-1)

QC Batch: 124337

Date Analyzed: 2015-08-25

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 1    | mg/L  | 0.100                 | 0.114                  | 114                         | 80 - 120                      | 2015-08-25       |
| Toluene      |      | 1    | mg/L  | 0.100                 | 0.117                  | 117                         | 80 - 120                      | 2015-08-25       |
| Ethylbenzene |      | 1    | mg/L  | 0.100                 | 0.113                  | 113                         | 80 - 120                      | 2015-08-25       |
| Xylene       |      | 1    | mg/L  | 0.300                 | 0.330                  | 110                         | 80 - 120                      | 2015-08-25       |

### Standard (CCV-2)

QC Batch: 124337

Date Analyzed: 2015-08-25

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 1    | mg/L  | 0.100                 | 0.108                  | 108                         | 80 - 120                      | 2015-08-25       |
| Toluene      |      | 1    | mg/L  | 0.100                 | 0.106                  | 106                         | 80 - 120                      | 2015-08-25       |
| Ethylbenzene |      | 1    | mg/L  | 0.100                 | 0.103                  | 103                         | 80 - 120                      | 2015-08-25       |
| Xylene       |      | 1    | mg/L  | 0.300                 | 0.300                  | 100                         | 80 - 120                      | 2015-08-25       |

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704392-14-8      | Midland             |

## Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| MI1 | Split peak or shoulder peak                                                                                                                                                                                                         |
| MI2 | Instrument software did not integrate                                                                                                                                                                                               |
| MI3 | Instrument software misidentified the peak                                                                                                                                                                                          |
| MI4 | Instrument software integrated improperly                                                                                                                                                                                           |
| MI5 | Baseline correction                                                                                                                                                                                                                 |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |
| Qsr | Surrogate recovery outside of laboratory limits.                                                                                                                                                                                    |
| U   | The analyte is not detected above the SDL                                                                                                                                                                                           |

## Attachments

Report Date: August 26, 2015  
Plains Marketing

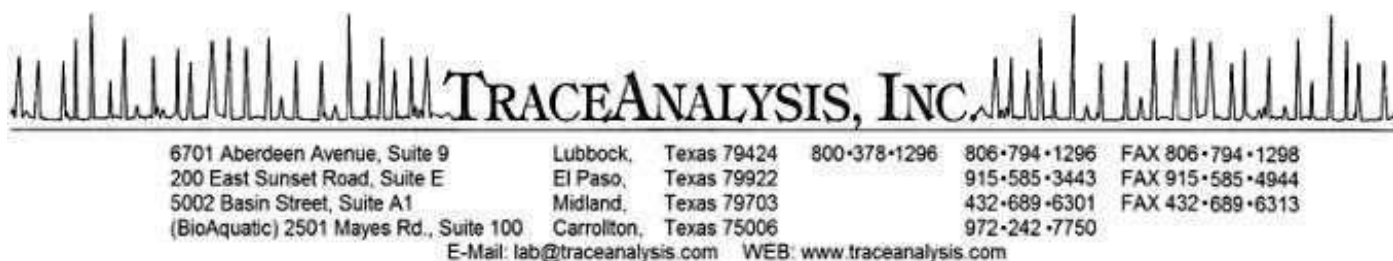
Work Order: 15082417  
Townsend Plains Marketing

Page Number: 11 of 11  
Lovington, NM

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The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.





## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Curt Stanley  
TRC Solutions  
2057 Commerce  
Midland, Tx, 79703

Report Date: September 9, 2015

Work Order: 15090812



Project Location: Lovington, NM  
Project Name: Townsend  
Project Number: TNM 9704

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 |
|--------|-------------|--------|------------|------------|---------------|
| 404008 | Post        | water  | 2015-09-08 | 10:38      | 2015-09-08    |

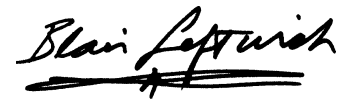
## Notes

- **Work Order 15090812:** Run PAH only if BTEX is detected

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.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent horizontal stroke at the end.

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

# Report Contents

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| <b>Method Blanks</b>                         | <b>6</b>  |
| QC Batch 124714 - Method Blank (1) . . . . . | 6         |
| <b>Laboratory Control Spikes</b>             | <b>7</b>  |
| QC Batch 124714 - LCS (1) . . . . .          | 7         |
| <b>Matrix Spikes</b>                         | <b>8</b>  |
| QC Batch 124714 - MS (1) . . . . .           | 8         |
| <b>Calibration Standards</b>                 | <b>9</b>  |
| QC Batch 124714 - CCV (1) . . . . .          | 9         |
| QC Batch 124714 - CCV (2) . . . . .          | 9         |
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## Case Narrative

Samples for project Townsend were received by TraceAnalysis, Inc. on 2015-09-08 and assigned to work order 15090812. Samples for work order 15090812 were received intact at a temperature of 11.7 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 | 105466        | 2015-09-08 at 16:00 | 124714      | 2015-09-09 at 07:13 |

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 15090812 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: September 9, 2015  
TNM 9704

Work Order: 15090812  
Townsend

Page Number: 5 of 11  
Lovington, NM

# Analytical Report

## Sample: 404008 - Post

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 124714  
Prep Batch: 105466

Analytical Method: S 8021B  
Date Analyzed: 2015-09-09  
Sample Preparation: 2015-09-08

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

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

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.106  | mg/L  | 1        | 0.100           | 106                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0869 | mg/L  | 1        | 0.100           | 87                  | 70 - 130           |

# Method Blanks

Method Blank (1)      QC Batch: 124714

QC Batch: 124714  
Prep Batch: 105466

Date Analyzed: 2015-09-09  
QC Preparation: 2015-09-08

Analyzed By: AK  
Prepared By: AK

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL    |
|--------------|------|------|---------------|-------|-------|
| Benzene      |      | 1    | <0.000299     | mg/L  | 0.001 |
| Toluene      |      | 1    | <0.000247     | mg/L  | 0.001 |
| Ethylbenzene |      | 1    | <0.000423     | mg/L  | 0.001 |
| Xylene       |      | 1    | <0.000552     | mg/L  | 0.001 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.106  | mg/L  | 1        | 0.100           | 106                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0847 | mg/L  | 1        | 0.100           | 85                  | 70 - 130           |

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 124714  
Prep Batch: 105466

Date Analyzed: 2015-09-09  
QC Preparation: 2015-09-08

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 1 | 0.100         | mg/L  | 1    | 0.100           | <0.000299        | 100  | 70 - 130      |
| Toluene      |   | 1 | 0.0986        | mg/L  | 1    | 0.100           | <0.000247        | 99   | 70 - 130      |
| Ethylbenzene |   | 1 | 0.0999        | mg/L  | 1    | 0.100           | <0.000423        | 100  | 70 - 130      |
| Xylene       |   | 1 | 0.302         | mg/L  | 1    | 0.300           | <0.000552        | 101  | 70 - 130      |

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

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 1 | 0.101         | mg/L  | 1    | 0.100           | <0.000299        | 101  | 70 - 130      | 1   | 20           |
| Toluene      |   | 1 | 0.100         | mg/L  | 1    | 0.100           | <0.000247        | 100  | 70 - 130      | 1   | 20           |
| Ethylbenzene |   | 1 | 0.102         | mg/L  | 1    | 0.100           | <0.000423        | 102  | 70 - 130      | 2   | 20           |
| Xylene       |   | 1 | 0.310         | mg/L  | 1    | 0.300           | <0.000552        | 103  | 70 - 130      | 3   | 20           |

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

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 0.107         | 0.106         | mg/L  | 1    | 0.100           | 107         | 106         | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0936        | 0.0887        | mg/L  | 1    | 0.100           | 94          | 89          | 70 - 130      |

## Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 404008

QC Batch: 124714  
Prep Batch: 105466

Date Analyzed: 2015-09-09  
QC Preparation: 2015-09-08

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 1 | 0.104        | mg/L  | 1    | 0.100           | <0.000299        | 104  | 70 - 130      |
| Toluene      |   | 1 | 0.0974       | mg/L  | 1    | 0.100           | <0.000247        | 97   | 70 - 130      |
| Ethylbenzene |   | 1 | 0.0963       | mg/L  | 1    | 0.100           | <0.000423        | 96   | 70 - 130      |
| Xylene       |   | 1 | 0.293        | mg/L  | 1    | 0.300           | <0.000552        | 98   | 70 - 130      |

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

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 1 | 0.104         | mg/L  | 1    | 0.100           | <0.000299        | 104  | 70 - 130      | 0   | 20           |
| Toluene      |   | 1 | 0.0975        | mg/L  | 1    | 0.100           | <0.000247        | 98   | 70 - 130      | 0   | 20           |
| Ethylbenzene |   | 1 | 0.101         | mg/L  | 1    | 0.100           | <0.000423        | 101  | 70 - 130      | 5   | 20           |
| Xylene       |   | 1 | 0.300         | mg/L  | 1    | 0.300           | <0.000552        | 100  | 70 - 130      | 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)       | 0.103        | 0.101         | mg/L  | 1    | 0.1             | 103        | 101         | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0864       | 0.0866        | mg/L  | 1    | 0.1             | 86         | 87          | 70 - 130      |

## Calibration Standards

### Standard (CCV-1)

QC Batch: 124714

Date Analyzed: 2015-09-09

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 1    | mg/L  | 0.100                 | 0.103                  | 103                         | 80 - 120                      | 2015-09-09       |
| Toluene      |      | 1    | mg/L  | 0.100                 | 0.0990                 | 99                          | 80 - 120                      | 2015-09-09       |
| Ethylbenzene |      | 1    | mg/L  | 0.100                 | 0.101                  | 101                         | 80 - 120                      | 2015-09-09       |
| Xylene       |      | 1    | mg/L  | 0.300                 | 0.307                  | 102                         | 80 - 120                      | 2015-09-09       |

### Standard (CCV-2)

QC Batch: 124714

Date Analyzed: 2015-09-09

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 1    | mg/L  | 0.100                 | 0.104                  | 104                         | 80 - 120                      | 2015-09-09       |
| Toluene      |      | 1    | mg/L  | 0.100                 | 0.0986                 | 99                          | 80 - 120                      | 2015-09-09       |
| Ethylbenzene |      | 1    | mg/L  | 0.100                 | 0.0980                 | 98                          | 80 - 120                      | 2015-09-09       |
| Xylene       |      | 1    | mg/L  | 0.300                 | 0.294                  | 98                          | 80 - 120                      | 2015-09-09       |

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704392-14-8      | Midland             |

## Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| MI1 | Split peak or shoulder peak                                                                                                                                                                                                         |
| MI2 | Instrument software did not integrate                                                                                                                                                                                               |
| MI3 | Instrument software misidentified the peak                                                                                                                                                                                          |
| MI4 | Instrument software integrated improperly                                                                                                                                                                                           |
| MI5 | Baseline correction                                                                                                                                                                                                                 |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |
| Qsr | Surrogate recovery outside of laboratory limits.                                                                                                                                                                                    |
| U   | The analyte is not detected above the SDL                                                                                                                                                                                           |

## Attachments

Report Date: September 9, 2015  
TNM 9704

Work Order: 15090812  
Townsend

Page Number: 11 of 11  
Lovington, NM

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The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.



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email: lab@traceanalysis.com

Company Name: TRC

Phone #: (432) 520-7720  
Fax #: (432) 520-7720

Address: (Street, City, Zip)

2057 Commerce Midland TX

Contact Person: Curt Stanley

E-mail:

Invoice to:  
(If different from above)

Project #:

TWM 9704

Project Location (including state):

Project Name:

TOWNSEND

Sample 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 |

40408 POST 1 0.04 9-8-15 10:08

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

|      |                         |      |                         |                                      |                           |                |                                                 |                                     |                |                     |                 |     |                       |                             |                  |                       |              |                  |                                                                                                 |                        |                                             |
|------|-------------------------|------|-------------------------|--------------------------------------|---------------------------|----------------|-------------------------------------------------|-------------------------------------|----------------|---------------------|-----------------|-----|-----------------------|-----------------------------|------------------|-----------------------|--------------|------------------|-------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------|
| MTBE | 8021 / 602 / 8260 / 624 | BTEX | 8021 / 602 / 8260 / 624 | TPH 418.1 / TX1005 / TX1005 Ext(C35) | TPH 8015 GRO / DRO / TVHC | PAH 6270 / 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, SO <sub>4</sub> , NO <sub>3</sub> -N, NO <sub>2</sub> -N, PO <sub>4</sub> -P, Alkalinity | Na, Ca, Mg, K, TDS, EC | Turn Around Time if different from standard |
|------|-------------------------|------|-------------------------|--------------------------------------|---------------------------|----------------|-------------------------------------------------|-------------------------------------|----------------|---------------------|-----------------|-----|-----------------------|-----------------------------|------------------|-----------------------|--------------|------------------|-------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------|

## LAB USE ONLY

Initials: Y N  
Headspace: X N NA  
Log-In-Review: ☐

|                    |          |        |       |                    |          |        |       |          |           |           |
|--------------------|----------|--------|-------|--------------------|----------|--------|-------|----------|-----------|-----------|
| Relinquished by:   | Company: | Date:  | Time: | Received by:       | Company: | Date:  | Time: | INST:    | OBS:      | COR:      |
| <i>[Signature]</i> | TRC      | 9-8-15 | 5:07  | <i>[Signature]</i> | TRC      | 9-8-15 | 5:07  | INST: 12 | OBS: 11.4 | COR: 11.3 |
| Relinquished by:   | Company: | Date:  | Time: | Received by:       | Company: | Date:  | Time: | INST:    | OBS:      | COR:      |
| <i>[Signature]</i> | TRC      | 9-8-15 | 15:34 | <i>[Signature]</i> | TRC      | 9-8-15 | 15:34 | INST: 12 | OBS: 11.4 | COR: 11.3 |
| Relinquished by:   | Company: | Date:  | Time: | Received by:       | Company: | Date:  | Time: | INST:    | OBS:      | COR:      |
| <i>[Signature]</i> | TRC      | 9-8-15 | 9:00  | <i>[Signature]</i> | TRC      | 9-8-15 | 9:00  | INST: 12 | OBS: 11.4 | COR: 11.3 |

## REMARKS:

24 hour Turnaround BTEX  
Row PAH only in BTEX  
is Detected

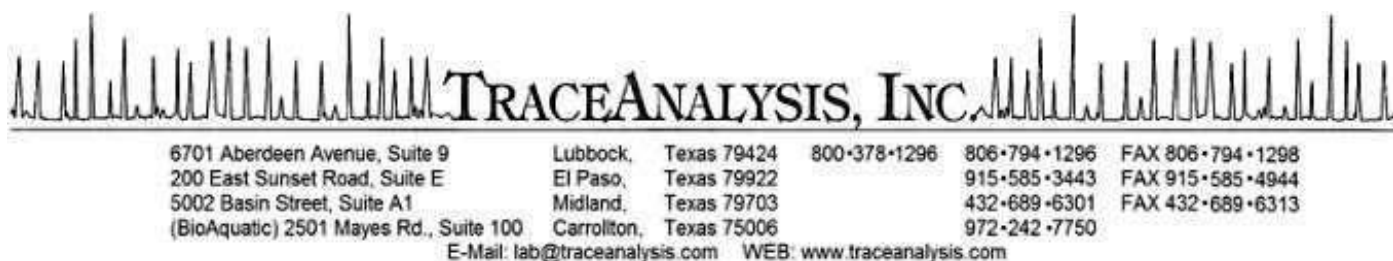
Dry Weight Basis Required  
TRRP Report Required  
Check if Special Reporting  
Limits Are Needed

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

Carrier #

*[Signature]*

ORIGINAL COPY



## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Curt Stanley  
TRC Solutions  
2057 Commerce  
Midland, Tx, 79703

Report Date: September 29, 2015

Work Order: 15092402



Project Location: Lovington, NM  
Project Name: Townsend  
Project Number: TNM 9704

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 |
|--------|-------------|--------|------------|------------|---------------|
| 405103 | Post        | water  | 2015-09-23 | 14:00      | 2015-09-24    |

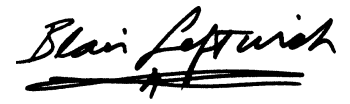
## Notes

- **Work Order 15092402:** Run PAH only if BTEX is detected

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.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent horizontal line underneath.

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

# Report Contents

|                                              |           |
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## Case Narrative

Samples for project Townsend were received by TraceAnalysis, Inc. on 2015-09-24 and assigned to work order 15092402. Samples for work order 15092402 were received intact at a temperature of 7.9 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 | 105849        | 2015-09-25 at 09:08 | 125140      | 2015-09-25 at 11:51 |
| PAH  | S 8270D | 105924        | 2015-09-28 at 15:00 | 125218      | 2015-09-29 at 15:02 |

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 15092402 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: 405103 - Post

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 125140  
Prep Batch: 105849

Analytical Method: S 8021B  
Date Analyzed: 2015-09-25  
Sample Preparation: 2015-09-25

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

| Parameter    | Flag | Cert | RL<br>Result   | Units | Dilution | RL      |
|--------------|------|------|----------------|-------|----------|---------|
| Benzene      | Qs   | 5    | <b>0.0357</b>  | mg/L  | 1        | 0.00100 |
| Toluene      |      | 5    | <b>0.00350</b> | mg/L  | 1        | 0.00100 |
| Ethylbenzene |      | 5    | <b>0.00210</b> | mg/L  | 1        | 0.00100 |
| Xylene       |      | 5    | <b>0.0117</b>  | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0980 | mg/L  | 1        | 0.100           | 98                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0992 | mg/L  | 1        | 0.100           | 99                  | 70 - 130           |

## Sample: 405103 - Post

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 125218  
Prep Batch: 105924

Analytical Method: S 8270D  
Date Analyzed: 2015-09-29  
Sample Preparation: 2015-09-28

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter           | Flag | Cert      | RL<br>Result | Units | Dilution | RL       |
|---------------------|------|-----------|--------------|-------|----------|----------|
| Naphthalene         | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| 2-Methylnaphthalene | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| 1-Methylnaphthalene | U    | 1         | <0.000202    | mg/L  | 1.01     | 0.000200 |
| Acenaphthylene      | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| Acenaphthene        | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| Dibenzofuran        | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| Fluorene            | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| Anthracene          | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| Phenanthrene        | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| Fluoranthene        | Qc,U | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| Pyrene              | Qc,U | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| Benzo(a)anthracene  | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| Chrysene            | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |

*continued ...*

*sample 405103 continued ...*

| Parameter              | Flag | Cert      | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|-----------|--------------|-------|----------|----------|
| Benzo(b)fluoranthene   | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| Benzo(k)fluoranthene   | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| Benzo(a)pyrene         | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| Indeno(1,2,3-cd)pyrene | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| Dibenzo(a,h)anthracene | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |
| Benzo(g,h,i)perylene   | U    | 1,2,3,4,6 | <0.000202    | mg/L  | 1.01     | 0.000200 |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      |      | 0.0457 | mg/L  | 1.01     | 0.0800          | 57                  | 10 - 120           |
| 2-Fluorobiphenyl |      |      | 0.0483 | mg/L  | 1.01     | 0.0800          | 60                  | 35.9 - 120         |
| Terphenyl-d14    |      |      | 0.0413 | mg/L  | 1.01     | 0.0800          | 52                  | 23.2 - 120         |

## Method Blanks

### Method Blank (1) QC Batch: 125140

QC Batch: 125140 Date Analyzed: 2015-09-25 Analyzed By: AK  
Prep Batch: 105849 QC Preparation: 2015-09-25 Prepared By: AK

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL    |
|--------------|------|------|---------------|-------|-------|
| Benzene      |      | 5    | <0.000299     | mg/L  | 0.001 |
| Toluene      |      | 5    | <0.000247     | mg/L  | 0.001 |
| Ethylbenzene |      | 5    | <0.000423     | mg/L  | 0.001 |
| Xylene       |      | 5    | <0.000552     | mg/L  | 0.001 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0996 | mg/L  | 1        | 0.100           | 100                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0972 | mg/L  | 1        | 0.100           | 97                  | 70 - 130           |

### Method Blank (1) QC Batch: 125218

QC Batch: 125218 Date Analyzed: 2015-09-29 Analyzed By: MN  
Prep Batch: 105924 QC Preparation: 2015-09-28 Prepared By: MN

| Parameter            | Flag | Cert      | MDL<br>Result | Units | RL     |
|----------------------|------|-----------|---------------|-------|--------|
| Naphthalene          |      | 1,2,3,4,6 | <0.0000656    | mg/L  | 0.0002 |
| 2-Methylnaphthalene  |      | 1,2,3,4,6 | <0.0000516    | mg/L  | 0.0002 |
| 1-Methylnaphthalene  |      | 1         | <0.0000663    | mg/L  | 0.0002 |
| Acenaphthylene       |      | 1,2,3,4,6 | <0.0000581    | mg/L  | 0.0002 |
| Acenaphthene         |      | 1,2,3,4,6 | <0.0000332    | mg/L  | 0.0002 |
| Dibenzofuran         |      | 1,2,3,4,6 | <0.0000607    | mg/L  | 0.0002 |
| Fluorene             |      | 1,2,3,4,6 | <0.0000788    | mg/L  | 0.0002 |
| Anthracene           |      | 1,2,3,4,6 | <0.0000321    | mg/L  | 0.0002 |
| Phenanthrene         |      | 1,2,3,4,6 | <0.0000516    | mg/L  | 0.0002 |
| Fluoranthene         |      | 1,2,3,4,6 | <0.0000638    | mg/L  | 0.0002 |
| Pyrene               |      | 1,2,3,4,6 | <0.0000415    | mg/L  | 0.0002 |
| Benzo(a)anthracene   |      | 1,2,3,4,6 | <0.0000721    | mg/L  | 0.0002 |
| Chrysene             |      | 1,2,3,4,6 | <0.0000811    | mg/L  | 0.0002 |
| Benzo(b)fluoranthene |      | 1,2,3,4,6 | <0.0000710    | mg/L  | 0.0002 |
| Benzo(k)fluoranthene |      | 1,2,3,4,6 | <0.0000561    | mg/L  | 0.0002 |
| Benzo(a)pyrene       |      | 1,2,3,4,6 | <0.0000418    | mg/L  | 0.0002 |

*continued ...*

Report Date: September 29, 2015  
TNM 9704

Work Order: 15092402  
Townsend

Page Number: 8 of 15  
Lovington, NM

*method blank continued ...*

| Parameter              | Flag | Cert      | MDL<br>Result | Units | RL     |
|------------------------|------|-----------|---------------|-------|--------|
| Indeno(1,2,3-cd)pyrene |      | 1,2,3,4,6 | <0.0000537    | mg/L  | 0.0002 |
| Dibenzo(a,h)anthracene |      | 1,2,3,4,6 | <0.0000562    | mg/L  | 0.0002 |
| Benzo(g,h,i)perylene   |      | 1,2,3,4,6 | <0.0000519    | mg/L  | 0.0002 |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      |      | 0.0647 | mg/L  | 1        | 0.0800          | 81                  | 10 - 120           |
| 2-Fluorobiphenyl |      |      | 0.0621 | mg/L  | 1        | 0.0800          | 78                  | 35.9 - 120         |
| Terphenyl-d14    |      |      | 0.0499 | mg/L  | 1        | 0.0800          | 62                  | 23.2 - 120         |

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 125140  
Prep Batch: 105849

Date Analyzed: 2015-09-25  
QC Preparation: 2015-09-25

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.123         | mg/L  | 1    | 0.100           | <0.000299        | 123  | 70 - 130      |
| Toluene      |   | 5 | 0.104         | mg/L  | 1    | 0.100           | <0.000247        | 104  | 70 - 130      |
| Ethylbenzene |   | 5 | 0.0944        | mg/L  | 1    | 0.100           | <0.000423        | 94   | 70 - 130      |
| Xylene       |   | 5 | 0.283         | mg/L  | 1    | 0.300           | <0.000552        | 94   | 70 - 130      |

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

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.122         | mg/L  | 1    | 0.100           | <0.000299        | 122  | 70 - 130      | 1   | 20           |
| Toluene      |   | 5 | 0.105         | mg/L  | 1    | 0.100           | <0.000247        | 105  | 70 - 130      | 1   | 20           |
| Ethylbenzene |   | 5 | 0.0972        | mg/L  | 1    | 0.100           | <0.000423        | 97   | 70 - 130      | 3   | 20           |
| Xylene       |   | 5 | 0.288         | mg/L  | 1    | 0.300           | <0.000552        | 96   | 70 - 130      | 2   | 20           |

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

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 0.0849        | 0.0790        | mg/L  | 1    | 0.100           | 85          | 79          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0976        | 0.0863        | mg/L  | 1    | 0.100           | 98          | 86          | 70 - 130      |

### Laboratory Control Spike (LCS-1)

QC Batch: 125218  
Prep Batch: 105924

Date Analyzed: 2015-09-29  
QC Preparation: 2015-09-28

Analyzed By: MN  
Prepared By: MN

| Param               | F | C         | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|---------------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Naphthalene         |   | 1,2,3,4,6 | 0.0712        | mg/L  | 1    | 0.0800          | <0.0000656       | 89   | 49.7 - 120    |
| 2-Methylnaphthalene |   | 1,2,3,4,6 | 0.0722        | mg/L  | 1    | 0.0800          | <0.0000516       | 90   | 44.6 - 120    |
| 1-Methylnaphthalene |   | 1         | 0.0719        | mg/L  | 1    | 0.0800          | <0.0000663       | 90   | 10 - 189      |
| Acenaphthylene      |   | 1,2,3,4,6 | 0.0683        | mg/L  | 1    | 0.0800          | <0.0000581       | 85   | 40.9 - 120    |
| Acenaphthene        |   | 1,2,3,4,6 | 0.0685        | mg/L  | 1    | 0.0800          | <0.0000332       | 86   | 49.9 - 120    |

*continued ...*

control spikes continued . . .

| Param                  |    |           | LCS       |        | Dil. | Spike  | Matrix     | Rec.       |            |            |
|------------------------|----|-----------|-----------|--------|------|--------|------------|------------|------------|------------|
|                        | F  | C         | Result    | Units  |      | Amount | Result     | Rec.       | Limit      |            |
| Dibenzofuran           |    | 1,2,3,4,6 | 0.0664    | mg/L   | 1    | 0.0800 | <0.0000607 | 83         | 34 - 120   |            |
| Fluorene               |    | 1,2,3,4,6 | 0.0736    | mg/L   | 1    | 0.0800 | <0.0000788 | 92         | 49.7 - 120 |            |
| Anthracene             |    | 1,2,3,4,6 | 0.0723    | mg/L   | 1    | 0.0800 | <0.0000321 | 90         | 11.4 - 155 |            |
| Phenanthrene           |    | 1,2,3,4,6 | 0.0738    | mg/L   | 1    | 0.0800 | <0.0000516 | 92         | 41 - 120   |            |
| Fluoranthene           |    | 1,2,3,4,6 | 0.0783    | mg/L   | 1    | 0.0800 | <0.0000638 | 98         | 35.7 - 120 |            |
| Pyrene                 |    | 1,2,3,4,6 | 0.0453    | mg/L   | 1    | 0.0800 | <0.0000415 | 57         | 19.5 - 139 |            |
| Benzo(a)anthracene     |    | 1,2,3,4,6 | 0.0656    | mg/L   | 1    | 0.0800 | <0.0000721 | 82         | 53.4 - 120 |            |
| Chrysene               |    | 1,2,3,4,6 | 0.134     | mg/L   | 1    | 0.0800 | <0.0000811 | 168        | 10 - 170   |            |
| Benzo(b)fluoranthene   |    | 1,2,3,4,6 | 0.0729    | mg/L   | 1    | 0.0800 | <0.0000710 | 91         | 29.2 - 120 |            |
| Benzo(k)fluoranthene   |    | 1,2,3,4,6 | 0.0664    | mg/L   | 1    | 0.0800 | <0.0000561 | 83         | 23.4 - 120 |            |
| Benzo(a)pyrene         |    | 1,2,3,4,6 | 0.0762    | mg/L   | 1    | 0.0800 | <0.0000418 | 95         | 23.4 - 120 |            |
| Indeno(1,2,3-cd)pyrene |    | 1,2,3,4,6 | 0.0884    | mg/L   | 1    | 0.0800 | <0.0000537 | 110        | 10 - 129   |            |
| Dibenzo(a,h)anthracene | Qs | Qs        | 1,2,3,4,6 | 0.168  | mg/L | 1      | 0.0800     | <0.0000562 | 210        | 10 - 174   |
| Benzo(g,h,i)perylene   | Qs | Qs        | 1,2,3,4,6 | 0.0974 | mg/L | 1      | 0.0800     | <0.0000519 | 122        | 30.6 - 120 |

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

| Param                  | F  | C         | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.       | Rec.<br>Limit | RPD        | RPD<br>Limit |    |
|------------------------|----|-----------|----------------|-------|------|-----------------|------------------|------------|---------------|------------|--------------|----|
| Naphthalene            |    | 1,2,3,4,6 | 0.0744         | mg/L  | 1    | 0.0800          | <0.0000656       | 93         | 49.7 - 120    | 4          | 20           |    |
| 2-Methylnaphthalene    |    | 1,2,3,4,6 | 0.0761         | mg/L  | 1    | 0.0800          | <0.0000516       | 95         | 44.6 - 120    | 5          | 20           |    |
| 1-Methylnaphthalene    |    | 1         | 0.0763         | mg/L  | 1    | 0.0800          | <0.0000663       | 95         | 10 - 189      | 6          | 20           |    |
| Acenaphthylene         |    | 1,2,3,4,6 | 0.0713         | mg/L  | 1    | 0.0800          | <0.0000581       | 89         | 40.9 - 120    | 4          | 20           |    |
| Acenaphthene           |    | 1,2,3,4,6 | 0.0716         | mg/L  | 1    | 0.0800          | <0.0000332       | 90         | 49.9 - 120    | 4          | 20           |    |
| Dibenzofuran           |    | 1,2,3,4,6 | 0.0695         | mg/L  | 1    | 0.0800          | <0.0000607       | 87         | 34 - 120      | 5          | 20           |    |
| Fluorene               |    | 1,2,3,4,6 | 0.0777         | mg/L  | 1    | 0.0800          | <0.0000788       | 97         | 49.7 - 120    | 5          | 20           |    |
| Anthracene             |    | 1,2,3,4,6 | 0.0768         | mg/L  | 1    | 0.0800          | <0.0000321       | 96         | 11.4 - 155    | 6          | 20           |    |
| Phenanthrene           |    | 1,2,3,4,6 | 0.0781         | mg/L  | 1    | 0.0800          | <0.0000516       | 98         | 41 - 120      | 6          | 20           |    |
| Fluoranthene           |    | 1,2,3,4,6 | 0.0832         | mg/L  | 1    | 0.0800          | <0.0000638       | 104        | 35.7 - 120    | 6          | 20           |    |
| Pyrene                 |    | 1,2,3,4,6 | 0.0472         | mg/L  | 1    | 0.0800          | <0.0000415       | 59         | 19.5 - 139    | 4          | 20           |    |
| Benzo(a)anthracene     |    | 1,2,3,4,6 | 0.0686         | mg/L  | 1    | 0.0800          | <0.0000721       | 86         | 53.4 - 120    | 4          | 20           |    |
| Chrysene               | Qs | Qs        | 1,2,3,4,6      | 0.141 | mg/L | 1               | 0.0800           | <0.0000811 | 176           | 10 - 170   | 5            | 20 |
| Benzo(b)fluoranthene   |    | 1,2,3,4,6 | 0.0760         | mg/L  | 1    | 0.0800          | <0.0000710       | 95         | 29.2 - 120    | 4          | 20           |    |
| Benzo(k)fluoranthene   |    | 1,2,3,4,6 | 0.0692         | mg/L  | 1    | 0.0800          | <0.0000561       | 86         | 23.4 - 120    | 4          | 20           |    |
| Benzo(a)pyrene         |    | 1,2,3,4,6 | 0.0798         | mg/L  | 1    | 0.0800          | <0.0000418       | 100        | 23.4 - 120    | 5          | 20           |    |
| Indeno(1,2,3-cd)pyrene |    | 1,2,3,4,6 | 0.0917         | mg/L  | 1    | 0.0800          | <0.0000537       | 115        | 10 - 129      | 4          | 20           |    |
| Dibenzo(a,h)anthracene | Qs | Qs        | 1,2,3,4,6      | 0.176 | mg/L | 1               | 0.0800           | <0.0000562 | 220           | 10 - 174   | 5            | 20 |
| Benzo(g,h,i)perylene   | Qs | Qs        | 1,2,3,4,6      | 0.102 | mg/L | 1               | 0.0800           | <0.0000519 | 128           | 30.6 - 120 | 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  | 0.0678        | 0.0703         | mg/L  | 1    | 0.0800          | 85          | 88           | 10 - 120      |
| 2-Fluorobiphenyl | 0.0663        | 0.0690         | mg/L  | 1    | 0.0800          | 83          | 86           | 35.9 - 120    |
| Terphenyl-d14    | 0.0497        | 0.0520         | mg/L  | 1    | 0.0800          | 62          | 65           | 23.2 - 120    |

## Matrix Spikes

**Matrix Spike (MS-1)**      Spiked Sample: 405103

QC Batch: 125140  
Prep Batch: 105849

Date Analyzed: 2015-09-25  
QC Preparation: 2015-09-25

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.152        | mg/L  | 1    | 0.100           | 0.0357           | 116  | 70 - 130      |
| Toluene      |   | 5 | 0.102        | mg/L  | 1    | 0.100           | 0.0035           | 98   | 70 - 130      |
| Ethylbenzene |   | 5 | 0.0928       | mg/L  | 1    | 0.100           | 0.0021           | 91   | 70 - 130      |
| Xylene       |   | 5 | 0.283        | mg/L  | 1    | 0.300           | 0.0117           | 90   | 70 - 130      |

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

| Param        | F  | C  | MSD    |        | Dil. | Spike Amount | Matrix | Rec.   | Rec.  | RPD      | RPD   |    |
|--------------|----|----|--------|--------|------|--------------|--------|--------|-------|----------|-------|----|
|              |    |    | Result | Units  |      |              | Result |        | Limit |          | Limit |    |
| Benzene      | Qs | Qs | 5      | 0.166  | mg/L | 1            | 0.100  | 0.0357 | 130   | 70 - 130 | 9     | 20 |
| Toluene      |    |    | 5      | 0.107  | mg/L | 1            | 0.100  | 0.0035 | 104   | 70 - 130 | 5     | 20 |
| Ethylbenzene |    |    | 5      | 0.0981 | mg/L | 1            | 0.100  | 0.0021 | 96    | 70 - 130 | 6     | 20 |
| Xylene       |    |    | 5      | 0.294  | mg/L | 1            | 0.300  | 0.0117 | 94    | 70 - 130 | 4     | 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)       | 0.0869       | 0.0889        | mg/L  | 1    | 0.1             | 87         | 89          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0952       | 0.0973        | mg/L  | 1    | 0.1             | 95         | 97          | 70 - 130      |

## Calibration Standards

### Standard (CCV-1)

QC Batch: 125140

Date Analyzed: 2015-09-25

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.120                  | 120                         | 80 - 120                      | 2015-09-25       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.103                  | 103                         | 80 - 120                      | 2015-09-25       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.0936                 | 94                          | 80 - 120                      | 2015-09-25       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.280                  | 93                          | 80 - 120                      | 2015-09-25       |

### Standard (CCV-2)

QC Batch: 125140

Date Analyzed: 2015-09-25

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.107                  | 107                         | 80 - 120                      | 2015-09-25       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.0913                 | 91                          | 80 - 120                      | 2015-09-25       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.0858                 | 86                          | 80 - 120                      | 2015-09-25       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.252                  | 84                          | 80 - 120                      | 2015-09-25       |

### Standard (CCV-1)

QC Batch: 125218

Date Analyzed: 2015-09-29

Analyzed By: MN

| Param               | Flag | Cert      | 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         |      | 1,2,3,4,6 | mg/L  | 60.0                  | 62.5                   | 104                         | 80 - 120                      | 2015-09-29       |
| 2-Methylnaphthalene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.5                   | 101                         | 80 - 120                      | 2015-09-29       |
| 1-Methylnaphthalene |      | 1         | mg/L  | 60.0                  | 58.0                   | 97                          | 80 - 120                      | 2015-09-29       |
| Acenaphthylene      |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.4                   | 101                         | 80 - 120                      | 2015-09-29       |
| Acenaphthene        |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.4                   | 101                         | 80 - 120                      | 2015-09-29       |
| Dibenzofuran        |      | 1,2,3,4,6 | mg/L  | 60.0                  | 66.0                   | 110                         | 80 - 120                      | 2015-09-29       |
| Fluorene            |      | 1,2,3,4,6 | mg/L  | 60.0                  | 64.3                   | 107                         | 80 - 120                      | 2015-09-29       |

*continued ...*

standard continued ...

| Param                  | Flag | Cert      | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Anthracene             |      | 1,2,3,4,6 | mg/L  | 60.0                  | 65.4                   | 109                         | 80 - 120                      | 2015-09-29       |
| Phenanthrene           |      | 1,2,3,4,6 | mg/L  | 60.0                  | 65.3                   | 109                         | 80 - 120                      | 2015-09-29       |
| Fluoranthene           | Qc   | Qc        | mg/L  | 60.0                  | 74.6                   | 124                         | 80 - 120                      | 2015-09-29       |
| Pyrene                 | Qc   | Qc        | mg/L  | 60.0                  | 43.3                   | 72                          | 80 - 120                      | 2015-09-29       |
| Benzo(a)anthracene     |      | 1,2,3,4,6 | mg/L  | 60.0                  | 59.8                   | 100                         | 80 - 120                      | 2015-09-29       |
| Chrysene               |      | 1,2,3,4,6 | mg/L  | 60.0                  | 57.4                   | 96                          | 80 - 120                      | 2015-09-29       |
| Benzo(b)fluoranthene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 64.2                   | 107                         | 80 - 120                      | 2015-09-29       |
| Benzo(k)fluoranthene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 52.7                   | 88                          | 80 - 120                      | 2015-09-29       |
| Benzo(a)pyrene         |      | 1,2,3,4,6 | mg/L  | 60.0                  | 61.8                   | 103                         | 80 - 120                      | 2015-09-29       |
| Indeno(1,2,3-cd)pyrene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 65.2                   | 109                         | 80 - 120                      | 2015-09-29       |
| Dibenzo(a,h)anthracene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 71.8                   | 120                         | 80 - 120                      | 2015-09-29       |
| Benzo(g,h,i)perylene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 66.4                   | 111                         | 80 - 120                      | 2015-09-29       |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |      |      | 63.3   | mg/L  | 1        | 60.0            | 106                 | -                 |
| 2-Fluorobiphenyl |      |      | 64.7   | mg/L  | 1        | 60.0            | 108                 | -                 |
| Terphenyl-d14    |      |      | 48.8   | mg/L  | 1        | 60.0            | 81                  | -                 |

## Appendix

### Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

### Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | L-A-B                | L2418                | Lubbock             |
| 2 | Kansas               | Kansas E-10317       | Lubbock             |
| 3 | LELAP                | LELAP-02003          | Lubbock             |
| 4 | NELAP                | T104704219-15-11     | Lubbock             |
| 5 | NELAP                | T104704392-14-8      | Midland             |
| 6 |                      | 2014-018             | Lubbock             |

### Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| MI1 | Split peak or shoulder peak                                                                                                                                                                                                         |
| MI2 | Instrument software did not integrate                                                                                                                                                                                               |
| MI3 | Instrument software misidentified the peak                                                                                                                                                                                          |
| MI4 | Instrument software integrated improperly                                                                                                                                                                                           |
| MI5 | Baseline correction                                                                                                                                                                                                                 |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |

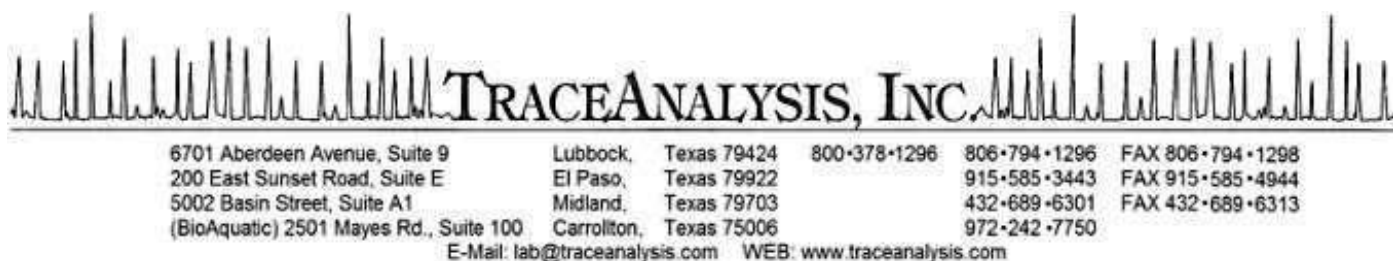
| F   | Description                                      |
|-----|--------------------------------------------------|
| Qsr | Surrogate recovery outside of laboratory limits. |
| U   | The analyte is not detected above the SDL        |

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**Attachments**

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.





## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Curt Stanley  
TRC Solutions  
2057 Commerce  
Midland, Tx, 79703

Report Date: October 2, 2015

Work Order: 15092923



Project Location: Lovington, NM  
Project Name: Townsend 97-04  
Project Number: Townsend 97-04

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 |
|--------|-------------|--------|------------|------------|---------------|
| 405439 | Post        | water  | 2015-09-29 | 13:00      | 2015-09-29    |

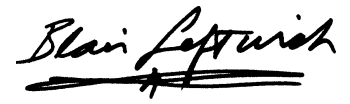
## Notes

- **Work Order 15092923:** Put a hold on PAH until further instructed

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.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent horizontal line underneath the name.

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project Townsend 97-04 were received by TraceAnalysis, Inc. on 2015-09-29 and assigned to work order 15092923. Samples for work order 15092923 were received intact at a temperature of 11.4 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 | 105932        | 2015-09-29 at 16:00 | 125241      | 2015-09-30 at 14:16 |
| PAH  | S 8270D | 105996        | 2015-10-01 at 15:00 | 125299      | 2015-10-02 at 12:57 |

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 15092923 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.

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# Analytical Report

## Sample: 405439 - Post

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 125241  
Prep Batch: 105932

Analytical Method: S 8021B  
Date Analyzed: 2015-09-30  
Sample Preparation: 2015-09-29

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

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL      |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0805 | mg/L  | 1        | 0.100           | 80                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0791 | mg/L  | 1        | 0.100           | 79                  | 70 - 130           |

## Sample: 405439 - Post

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 125299  
Prep Batch: 105996

Analytical Method: S 8270D  
Date Analyzed: 2015-10-02  
Sample Preparation: 2015-10-01

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter           | Flag | Cert      | RL<br>Result | Units | Dilution | RL       |
|---------------------|------|-----------|--------------|-------|----------|----------|
| Naphthalene         | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| 2-Methylnaphthalene | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| 1-Methylnaphthalene | U    | 1         | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Acenaphthylene      | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Acenaphthene        | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Dibenzofuran        | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Fluorene            | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Anthracene          | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Phenanthrene        | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Fluoranthene        | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Pyrene              | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Benzo(a)anthracene  | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Chrysene            | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |

*continued ...*

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*sample 405439 continued ...*

| Parameter              | Flag | Cert      | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|-----------|--------------|-------|----------|----------|
| Benzo(b)fluoranthene   | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Benzo(k)fluoranthene   | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Benzo(a)pyrene         | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Indeno(1,2,3-cd)pyrene | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Dibenzo(a,h)anthracene | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Benzo(g,h,i)perylene   | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      |      | 0.0562 | mg/L  | 0.976    | 0.0800          | 70                  | 10 - 120           |
| 2-Fluorobiphenyl |      |      | 0.0518 | mg/L  | 0.976    | 0.0800          | 65                  | 35.9 - 120         |
| Terphenyl-d14    |      |      | 0.0713 | mg/L  | 0.976    | 0.0800          | 89                  | 23.2 - 120         |

## Method Blanks

### Method Blank (1) QC Batch: 125241

QC Batch: 125241 Date Analyzed: 2015-09-30 Analyzed By: AK  
Prep Batch: 105932 QC Preparation: 2015-09-29 Prepared By: AK

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL    |
|--------------|------|------|---------------|-------|-------|
| Benzene      |      | 5    | <0.000299     | mg/L  | 0.001 |
| Toluene      |      | 5    | <0.000247     | mg/L  | 0.001 |
| Ethylbenzene |      | 5    | <0.000423     | mg/L  | 0.001 |
| Xylene       |      | 5    | <0.000552     | mg/L  | 0.001 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0951 | mg/L  | 1        | 0.100           | 95                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0930 | mg/L  | 1        | 0.100           | 93                  | 70 - 130           |

### Method Blank (1) QC Batch: 125299

QC Batch: 125299 Date Analyzed: 2015-10-02 Analyzed By: MN  
Prep Batch: 105996 QC Preparation: 2015-10-01 Prepared By: MN

| Parameter            | Flag | Cert      | MDL<br>Result | Units | RL     |
|----------------------|------|-----------|---------------|-------|--------|
| Naphthalene          |      | 1,2,3,4,6 | <0.0000656    | mg/L  | 0.0002 |
| 2-Methylnaphthalene  |      | 1,2,3,4,6 | <0.0000516    | mg/L  | 0.0002 |
| 1-Methylnaphthalene  |      | 1         | <0.0000663    | mg/L  | 0.0002 |
| Acenaphthylene       |      | 1,2,3,4,6 | <0.0000581    | mg/L  | 0.0002 |
| Acenaphthene         |      | 1,2,3,4,6 | <0.0000332    | mg/L  | 0.0002 |
| Dibenzofuran         |      | 1,2,3,4,6 | <0.0000607    | mg/L  | 0.0002 |
| Fluorene             |      | 1,2,3,4,6 | <0.0000788    | mg/L  | 0.0002 |
| Anthracene           |      | 1,2,3,4,6 | <0.0000321    | mg/L  | 0.0002 |
| Phenanthrene         |      | 1,2,3,4,6 | <0.0000516    | mg/L  | 0.0002 |
| Fluoranthene         |      | 1,2,3,4,6 | <0.0000638    | mg/L  | 0.0002 |
| Pyrene               |      | 1,2,3,4,6 | <0.0000415    | mg/L  | 0.0002 |
| Benzo(a)anthracene   |      | 1,2,3,4,6 | <0.0000721    | mg/L  | 0.0002 |
| Chrysene             |      | 1,2,3,4,6 | <0.0000811    | mg/L  | 0.0002 |
| Benzo(b)fluoranthene |      | 1,2,3,4,6 | <0.0000710    | mg/L  | 0.0002 |
| Benzo(k)fluoranthene |      | 1,2,3,4,6 | <0.0000561    | mg/L  | 0.0002 |
| Benzo(a)pyrene       |      | 1,2,3,4,6 | <0.0000418    | mg/L  | 0.0002 |

*continued ...*

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*method blank continued ...*

| Parameter              | Flag | Cert      | MDL<br>Result | Units | RL     |
|------------------------|------|-----------|---------------|-------|--------|
| Indeno(1,2,3-cd)pyrene |      | 1,2,3,4,6 | <0.0000537    | mg/L  | 0.0002 |
| Dibenzo(a,h)anthracene |      | 1,2,3,4,6 | <0.0000562    | mg/L  | 0.0002 |
| Benzo(g,h,i)perylene   |      | 1,2,3,4,6 | <0.0000519    | mg/L  | 0.0002 |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      |      | 0.0471 | mg/L  | 1        | 0.0800          | 59                  | 10 - 120           |
| 2-Fluorobiphenyl |      |      | 0.0436 | mg/L  | 1        | 0.0800          | 54                  | 35.9 - 120         |
| Terphenyl-d14    |      |      | 0.0517 | mg/L  | 1        | 0.0800          | 65                  | 23.2 - 120         |

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 125241  
Prep Batch: 105932

Date Analyzed: 2015-09-30  
QC Preparation: 2015-09-29

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.113         | mg/L  | 1    | 0.100           | <0.000299        | 113  | 70 - 130      |
| Toluene      |   | 5 | 0.0953        | mg/L  | 1    | 0.100           | <0.000247        | 95   | 70 - 130      |
| Ethylbenzene |   | 5 | 0.0876        | mg/L  | 1    | 0.100           | <0.000423        | 88   | 70 - 130      |
| Xylene       |   | 5 | 0.262         | mg/L  | 1    | 0.300           | <0.000552        | 87   | 70 - 130      |

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

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.119         | mg/L  | 1    | 0.100           | <0.000299        | 119  | 70 - 130      | 5   | 20           |
| Toluene      |   | 5 | 0.100         | mg/L  | 1    | 0.100           | <0.000247        | 100  | 70 - 130      | 5   | 20           |
| Ethylbenzene |   | 5 | 0.0956        | mg/L  | 1    | 0.100           | <0.000423        | 96   | 70 - 130      | 9   | 20           |
| Xylene       |   | 5 | 0.279         | mg/L  | 1    | 0.300           | <0.000552        | 93   | 70 - 130      | 6   | 20           |

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

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 0.0928        | 0.0946        | mg/L  | 1    | 0.100           | 93          | 95          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0963        | 0.0926        | mg/L  | 1    | 0.100           | 96          | 93          | 70 - 130      |

### Laboratory Control Spike (LCS-1)

QC Batch: 125299  
Prep Batch: 105996

Date Analyzed: 2015-10-02  
QC Preparation: 2015-10-01

Analyzed By: MN  
Prepared By: MN

| Param               | F | C         | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|---------------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Naphthalene         |   | 1,2,3,4,6 | 0.0655        | mg/L  | 1    | 0.0800          | <0.0000656       | 82   | 49.7 - 120    |
| 2-Methylnaphthalene |   | 1,2,3,4,6 | 0.0661        | mg/L  | 1    | 0.0800          | <0.0000516       | 83   | 44.6 - 120    |
| 1-Methylnaphthalene |   | 1         | 0.0675        | mg/L  | 1    | 0.0800          | <0.0000663       | 84   | 10 - 189      |
| Acenaphthylene      |   | 1,2,3,4,6 | 0.0663        | mg/L  | 1    | 0.0800          | <0.0000581       | 83   | 40.9 - 120    |
| Acenaphthene        |   | 1,2,3,4,6 | 0.0669        | mg/L  | 1    | 0.0800          | <0.0000332       | 84   | 49.9 - 120    |

*continued ...*

control spikes continued ...

| Param                  | F  | C         | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|----|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Dibenzofuran           |    | 1,2,3,4,6 | 0.0738        | mg/L  | 1    | 0.0800          | <0.0000607       | 92   | 34 - 120      |
| Fluorene               |    | 1,2,3,4,6 | 0.0669        | mg/L  | 1    | 0.0800          | <0.0000788       | 84   | 49.7 - 120    |
| Anthracene             |    | 1,2,3,4,6 | 0.0664        | mg/L  | 1    | 0.0800          | <0.0000321       | 83   | 11.4 - 155    |
| Phenanthrene           |    | 1,2,3,4,6 | 0.0674        | mg/L  | 1    | 0.0800          | <0.0000516       | 84   | 41 - 120      |
| Fluoranthene           |    | 1,2,3,4,6 | 0.0625        | mg/L  | 1    | 0.0800          | <0.0000638       | 78   | 35.7 - 120    |
| Pyrene                 |    | 1,2,3,4,6 | 0.0705        | mg/L  | 1    | 0.0800          | <0.0000415       | 88   | 19.5 - 139    |
| Benzo(a)anthracene     |    | 1,2,3,4,6 | 0.0690        | mg/L  | 1    | 0.0800          | <0.0000721       | 86   | 53.4 - 120    |
| Chrysene               | Qs | Qs        | 0.151         | mg/L  | 1    | 0.0800          | <0.0000811       | 189  | 10 - 170      |
| Benzo(b)fluoranthene   |    | 1,2,3,4,6 | 0.0918        | mg/L  | 1    | 0.0800          | <0.0000710       | 115  | 29.2 - 120    |
| Benzo(k)fluoranthene   | Qs | Qs        | 0.119         | mg/L  | 1    | 0.0800          | <0.0000561       | 149  | 23.4 - 120    |
| Benzo(a)pyrene         | Qs | Qs        | 0.108         | mg/L  | 1    | 0.0800          | <0.0000418       | 135  | 23.4 - 120    |
| Indeno(1,2,3-cd)pyrene | Qs | Qs        | 0.118         | mg/L  | 1    | 0.0800          | <0.0000537       | 148  | 10 - 129      |
| Dibenzo(a,h)anthracene | Qs | Qs        | 0.204         | mg/L  | 1    | 0.0800          | <0.0000562       | 255  | 10 - 174      |
| Benzo(g,h,i)perylene   | Qs | Qs        | 0.129         | mg/L  | 1    | 0.0800          | <0.0000519       | 161  | 30.6 - 120    |

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

| Param                  | F  | C         | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|----|-----------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Naphthalene            |    | 1,2,3,4,6 | 0.0684         | mg/L  | 1    | 0.0800          | <0.0000656       | 86   | 49.7 - 120    | 4   | 20           |
| 2-Methylnaphthalene    |    | 1,2,3,4,6 | 0.0698         | mg/L  | 1    | 0.0800          | <0.0000516       | 87   | 44.6 - 120    | 5   | 20           |
| 1-Methylnaphthalene    |    | 1         | 0.0703         | mg/L  | 1    | 0.0800          | <0.0000663       | 88   | 10 - 189      | 4   | 20           |
| Acenaphthylene         |    | 1,2,3,4,6 | 0.0698         | mg/L  | 1    | 0.0800          | <0.0000581       | 87   | 40.9 - 120    | 5   | 20           |
| Acenaphthene           |    | 1,2,3,4,6 | 0.0704         | mg/L  | 1    | 0.0800          | <0.0000332       | 88   | 49.9 - 120    | 5   | 20           |
| Dibenzofuran           |    | 1,2,3,4,6 | 0.0775         | mg/L  | 1    | 0.0800          | <0.0000607       | 97   | 34 - 120      | 5   | 20           |
| Fluorene               |    | 1,2,3,4,6 | 0.0696         | mg/L  | 1    | 0.0800          | <0.0000788       | 87   | 49.7 - 120    | 4   | 20           |
| Anthracene             |    | 1,2,3,4,6 | 0.0686         | mg/L  | 1    | 0.0800          | <0.0000321       | 86   | 11.4 - 155    | 3   | 20           |
| Phenanthrene           |    | 1,2,3,4,6 | 0.0693         | mg/L  | 1    | 0.0800          | <0.0000516       | 87   | 41 - 120      | 3   | 20           |
| Fluoranthene           |    | 1,2,3,4,6 | 0.0647         | mg/L  | 1    | 0.0800          | <0.0000638       | 81   | 35.7 - 120    | 3   | 20           |
| Pyrene                 |    | 1,2,3,4,6 | 0.0714         | mg/L  | 1    | 0.0800          | <0.0000415       | 89   | 19.5 - 139    | 1   | 20           |
| Benzo(a)anthracene     |    | 1,2,3,4,6 | 0.0706         | mg/L  | 1    | 0.0800          | <0.0000721       | 88   | 53.4 - 120    | 2   | 20           |
| Chrysene               | Qs | Qs        | 0.154          | mg/L  | 1    | 0.0800          | <0.0000811       | 192  | 10 - 170      | 2   | 20           |
| Benzo(b)fluoranthene   |    | 1,2,3,4,6 | 0.0922         | mg/L  | 1    | 0.0800          | <0.0000710       | 115  | 29.2 - 120    | 0   | 20           |
| Benzo(k)fluoranthene   | Qs | Qs        | 0.116          | mg/L  | 1    | 0.0800          | <0.0000561       | 145  | 23.4 - 120    | 3   | 20           |
| Benzo(a)pyrene         | Qs | Qs        | 0.106          | mg/L  | 1    | 0.0800          | <0.0000418       | 132  | 23.4 - 120    | 2   | 20           |
| Indeno(1,2,3-cd)pyrene | Qs | Qs        | 0.115          | mg/L  | 1    | 0.0800          | <0.0000537       | 144  | 10 - 129      | 3   | 20           |
| Dibenzo(a,h)anthracene | Qs | Qs        | 0.201          | mg/L  | 1    | 0.0800          | <0.0000562       | 251  | 10 - 174      | 2   | 20           |
| Benzo(g,h,i)perylene   | Qs | Qs        | 0.126          | mg/L  | 1    | 0.0800          | <0.0000519       | 158  | 30.6 - 120    | 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 |
|------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Nitrobenzene-d5  | 0.0670        | 0.0708         | mg/L  | 1    | 0.0800          | 84          | 88           | 10 - 120      |
| 2-Fluorobiphenyl | 0.0640        | 0.0673         | mg/L  | 1    | 0.0800          | 80          | 84           | 35.9 - 120    |
| Terphenyl-d14    | 0.0720        | 0.0733         | mg/L  | 1    | 0.0800          | 90          | 92           | 23.2 - 120    |

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## Matrix Spikes

**Matrix Spike (MS-1)**      Spiked Sample: 405223

QC Batch: 125241  
Prep Batch: 105932

Date Analyzed: 2015-09-30  
QC Preparation: 2015-09-29

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.121        | mg/L  | 1    | 0.100           | <0.000299        | 121  | 70 - 130      |
| Toluene      |   | 5 | 0.103        | mg/L  | 1    | 0.100           | <0.000247        | 103  | 70 - 130      |
| Ethylbenzene |   | 5 | 0.0970       | mg/L  | 1    | 0.100           | <0.000423        | 97   | 70 - 130      |
| Xylene       |   | 5 | 0.284        | mg/L  | 1    | 0.300           | <0.000552        | 95   | 70 - 130      |

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

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.120         | mg/L  | 1    | 0.100           | <0.000299        | 120  | 70 - 130      | 1   | 20           |
| Toluene      |   | 5 | 0.0993        | mg/L  | 1    | 0.100           | <0.000247        | 99   | 70 - 130      | 4   | 20           |
| Ethylbenzene |   | 5 | 0.0939        | mg/L  | 1    | 0.100           | <0.000423        | 94   | 70 - 130      | 3   | 20           |
| Xylene       |   | 5 | 0.276         | mg/L  | 1    | 0.300           | <0.000552        | 92   | 70 - 130      | 3   | 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)       | 0.0911       | 0.0942        | mg/L  | 1    | 0.1             | 91         | 94          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0992       | 0.0976        | mg/L  | 1    | 0.1             | 99         | 98          | 70 - 130      |

## Calibration Standards

### Standard (CCV-1)

QC Batch: 125241

Date Analyzed: 2015-09-30

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.117                  | 117                         | 80 - 120                      | 2015-09-30       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.0980                 | 98                          | 80 - 120                      | 2015-09-30       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.0916                 | 92                          | 80 - 120                      | 2015-09-30       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.269                  | 90                          | 80 - 120                      | 2015-09-30       |

### Standard (CCV-2)

QC Batch: 125241

Date Analyzed: 2015-09-30

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.118                  | 118                         | 80 - 120                      | 2015-09-30       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.100                  | 100                         | 80 - 120                      | 2015-09-30       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.0938                 | 94                          | 80 - 120                      | 2015-09-30       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.277                  | 92                          | 80 - 120                      | 2015-09-30       |

### Standard (CCV-1)

QC Batch: 125299

Date Analyzed: 2015-10-02

Analyzed By: MN

| Param               | Flag | Cert      | 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         |      | 1,2,3,4,6 | mg/L  | 60.0                  | 62.7                   | 104                         | 80 - 120                      | 2015-10-02       |
| 2-Methylnaphthalene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 61.3                   | 102                         | 80 - 120                      | 2015-10-02       |
| 1-Methylnaphthalene |      | 1         | mg/L  | 60.0                  | 60.2                   | 100                         | 80 - 120                      | 2015-10-02       |
| Acenaphthylene      |      | 1,2,3,4,6 | mg/L  | 60.0                  | 61.8                   | 103                         | 80 - 120                      | 2015-10-02       |
| Acenaphthene        |      | 1,2,3,4,6 | mg/L  | 60.0                  | 61.8                   | 103                         | 80 - 120                      | 2015-10-02       |
| Dibenzofuran        |      | 1,2,3,4,6 | mg/L  | 60.0                  | 61.8                   | 103                         | 80 - 120                      | 2015-10-02       |
| Fluorene            |      | 1,2,3,4,6 | mg/L  | 60.0                  | 62.5                   | 104                         | 80 - 120                      | 2015-10-02       |

*continued ...*

*standard continued ...*

| Param                  | Flag | Cert      | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Anthracene             |      | 1,2,3,4,6 | mg/L  | 60.0                  | 62.1                   | 104                         | 80 - 120                      | 2015-10-02       |
| Phenanthrene           |      | 1,2,3,4,6 | mg/L  | 60.0                  | 61.7                   | 103                         | 80 - 120                      | 2015-10-02       |
| Fluoranthene           |      | 1,2,3,4,6 | mg/L  | 60.0                  | 61.4                   | 102                         | 80 - 120                      | 2015-10-02       |
| Pyrene                 |      | 1,2,3,4,6 | mg/L  | 60.0                  | 61.0                   | 102                         | 80 - 120                      | 2015-10-02       |
| Benzo(a)anthracene     |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.6                   | 101                         | 80 - 120                      | 2015-10-02       |
| Chrysene               |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.6                   | 101                         | 80 - 120                      | 2015-10-02       |
| Benzo(b)fluoranthene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 59.9                   | 100                         | 80 - 120                      | 2015-10-02       |
| Benzo(k)fluoranthene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 64.1                   | 107                         | 80 - 120                      | 2015-10-02       |
| Benzo(a)pyrene         |      | 1,2,3,4,6 | mg/L  | 60.0                  | 61.1                   | 102                         | 80 - 120                      | 2015-10-02       |
| Indeno(1,2,3-cd)pyrene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.8                   | 101                         | 80 - 120                      | 2015-10-02       |
| Dibenzo(a,h)anthracene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.8                   | 101                         | 80 - 120                      | 2015-10-02       |
| Benzo(g,h,i)perylene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 59.9                   | 100                         | 80 - 120                      | 2015-10-02       |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |      |      | 62.3   | mg/L  | 1        | 60.0            | 104                 | -                 |
| 2-Fluorobiphenyl |      |      | 60.9   | mg/L  | 1        | 60.0            | 102                 | -                 |
| Terphenyl-d14    |      |      | 61.0   | mg/L  | 1        | 60.0            | 102                 | -                 |

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | L-A-B                | L2418                | Lubbock             |
| 2 | Kansas               | Kansas E-10317       | Lubbock             |
| 3 | LELAP                | LELAP-02003          | Lubbock             |
| 4 | NELAP                | T104704219-15-11     | Lubbock             |
| 5 | NELAP                | T104704392-14-8      | Midland             |
| 6 |                      | 2014-018             | Lubbock             |

## Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| MI1 | Split peak or shoulder peak                                                                                                                                                                                                         |
| MI2 | Instrument software did not integrate                                                                                                                                                                                               |
| MI3 | Instrument software misidentified the peak                                                                                                                                                                                          |
| MI4 | Instrument software integrated improperly                                                                                                                                                                                           |
| MI5 | Baseline correction                                                                                                                                                                                                                 |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |

| F   | Description                                      |
|-----|--------------------------------------------------|
| Qsr | Surrogate recovery outside of laboratory limits. |
| U   | The analyte is not detected above the SDL        |

Attachments

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

LAB Order ID # 15092923

# TraceAnalysis, Inc.

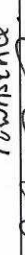
email: [lab@traceanalysis.com](mailto:lab@traceanalysis.com)

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

**Brandon & Clark**  
3403 Industrial Blvd.  
**Hobbs, NM 88240**  
Tel (575) 392-7561  
Fax (575) 392-4508

|                                          |                                          |                    |                                                                                     |
|------------------------------------------|------------------------------------------|--------------------|-------------------------------------------------------------------------------------|
| Company Name:                            | TRC Environmental                        | Phone #:           | 432-520-7720                                                                        |
| Address:                                 | (Street, City, Zip)<br>2057 Commerce Dr. | Fax #:             | -                                                                                   |
| Contact Person:                          | Curt Stanley                             | E-mail:            | cstanley@trcsolutions.com                                                           |
| Invoice to:<br>(if different from above) | -                                        | Project Name:      | Townsend                                                                            |
| Project #:                               | Townsend 97-04                           | Sampler Signature: |  |
| Project Location (including state):      | <del>Townsend</del> Lovington NM         |                    |                                                                                     |

[illegible][illegible]

**LAB USE ONLY**

Initial Y / N

Headspace Y / N

Log-in-Review AS

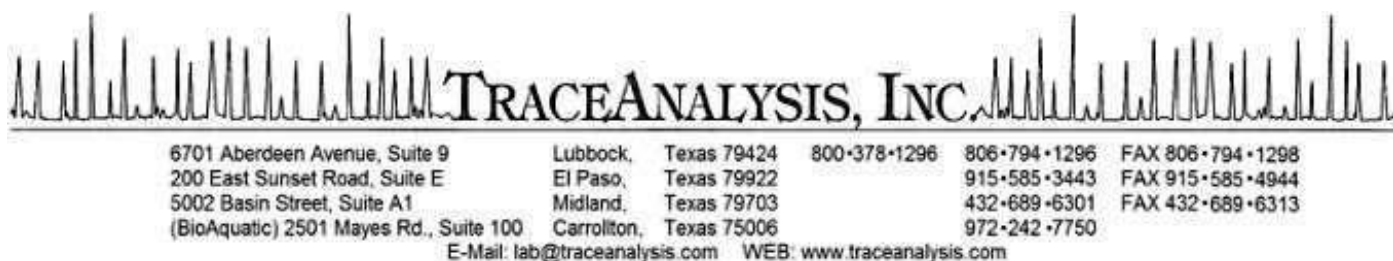
|                          |                                              |
|--------------------------|----------------------------------------------|
| <input type="checkbox"/> | Dry Weight Basis Required                    |
| <input type="checkbox"/> | TRRP Report Required                         |
| <input type="checkbox"/> | 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 #

carry in 85Z968024



## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Curt Stanley  
TRC Solutions  
2057 Commerce  
Midland, Tx, 79703

Report Date: November 23, 2015

Work Order: 15102902



Project Location: Lovington, NM  
Project Name: Townsend  
Project Number: TNM 9704

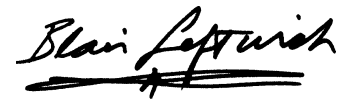
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 407219 | Post        | water  | 2015-10-28 | 13:00      | 2015-10-29    |

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.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 37 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent horizontal stroke at the end.

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

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## Case Narrative

Samples for project Townsend were received by TraceAnalysis, Inc. on 2015-10-29 and assigned to work order 15102902. Samples for work order 15102902 were received intact at a temperature of 5.8 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    |
|-----------|---------|---------------|---------------------|-------------|---------------------|
| Ag, Total | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |
| Al, Total | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |
| As, Total | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |
| Ba, Total | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |
| BTEX      | S 8021B | 106577        | 2015-10-29 at 07:16 | 125972      | 2015-10-30 at 07:48 |
| B, Total  | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |
| Cd, Total | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |
| Co, Total | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |
| Cr, Total | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |
| Cu, Total | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |
| Fe, Total | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |
| Hg, Total | S 7470A | 106691        | 2015-11-04 at 11:36 | 126102      | 2015-11-05 at 12:15 |
| Mn, Total | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |
| Mo, Total | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |
| Ni, Total | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |
| PAH       | S 8270D | 107054        | 2015-11-04 at 15:00 | 126505      | 2015-11-20 at 13:34 |
| Pb, Total | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |
| Se, Total | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |
| Zn, Total | S 6010C | 106615        | 2015-11-02 at 11:43 | 126119      | 2015-11-05 at 15:10 |

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 15102902 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: 407219 - Post

Laboratory: Lubbock  
Analysis: Al, Total  
QC Batch: 126119  
Prep Batch: 106615

Analytical Method: S 6010C  
Date Analyzed: 2015-11-05  
Sample Preparation: 2015-11-02

Prep Method: S 3010A  
Analyzed By: RR  
Prepared By: RR

| Parameter      | Flag | Cert    | RL<br>Result | Units | Dilution | RL     |
|----------------|------|---------|--------------|-------|----------|--------|
| Total Aluminum |      | 2,3,4,6 | <0.0500      | mg/L  | 1        | 0.0500 |

## Sample: 407219 - Post

Laboratory: Lubbock  
Analysis: B, Total  
QC Batch: 126119  
Prep Batch: 106615

Analytical Method: S 6010C  
Date Analyzed: 2015-11-05  
Sample Preparation: 2015-11-02

Prep Method: S 3010A  
Analyzed By: RR  
Prepared By: RR

| Parameter   | Flag | Cert    | RL<br>Result | Units | Dilution | RL     |
|-------------|------|---------|--------------|-------|----------|--------|
| Total Boron |      | 2,3,4,6 | <b>0.108</b> | mg/L  | 1        | 0.0100 |

## Sample: 407219 - Post

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 125972  
Prep Batch: 106577

Analytical Method: S 8021B  
Date Analyzed: 2015-10-30  
Sample Preparation: 2015-10-29

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

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL      |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0943 | mg/L  | 1        | 0.100           | 94                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.101  | mg/L  | 1        | 0.100           | 101                 | 70 - 130           |

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**Sample: 407219 - Post**

|             |           |                     |            |
|-------------|-----------|---------------------|------------|
| Laboratory: | Lubbock   |                     |            |
| Analysis:   | Co, Total | Analytical Method:  | S 6010C    |
| QC Batch:   | 126119    | Date Analyzed:      | 2015-11-05 |
| Prep Batch: | 106615    | Sample Preparation: | 2015-11-02 |
|             |           | Prep Method:        | S 3010A    |
|             |           | Analyzed By:        | RR         |
|             |           | Prepared By:        | RR         |

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL     |
|--------------|------|------|--------------|-------|----------|--------|
| Total Cobalt | U    | 2,3  | <0.0100      | mg/L  | 1        | 0.0100 |

**Sample: 407219 - Post**

|             |           |                     |            |
|-------------|-----------|---------------------|------------|
| Laboratory: | Lubbock   |                     |            |
| Analysis:   | Cu, Total | Analytical Method:  | S 6010C    |
| QC Batch:   | 126119    | Date Analyzed:      | 2015-11-05 |
| Prep Batch: | 106615    | Sample Preparation: | 2015-11-02 |
|             |           | Prep Method:        | S 3010A    |
|             |           | Analyzed By:        | RR         |
|             |           | Prepared By:        | RR         |

| Parameter    | Flag | Cert | RL<br>Result   | Units | Dilution | RL      |
|--------------|------|------|----------------|-------|----------|---------|
| Total Copper |      | 2,3  | <b>0.00500</b> | mg/L  | 1        | 0.00500 |

**Sample: 407219 - Post**

|             |           |                     |            |
|-------------|-----------|---------------------|------------|
| Laboratory: | Lubbock   |                     |            |
| Analysis:   | Fe, Total | Analytical Method:  | S 6010C    |
| QC Batch:   | 126119    | Date Analyzed:      | 2015-11-05 |
| Prep Batch: | 106615    | Sample Preparation: | 2015-11-02 |
|             |           | Prep Method:        | S 3010A    |
|             |           | Analyzed By:        | RR         |
|             |           | Prepared By:        | RR         |

| Parameter  | Flag | Cert | RL<br>Result | Units | Dilution | RL     |
|------------|------|------|--------------|-------|----------|--------|
| Total Iron |      | 2,3  | <b>0.203</b> | mg/L  | 1        | 0.0100 |

**Sample: 407219 - Post**

|             |           |                     |            |
|-------------|-----------|---------------------|------------|
| Laboratory: | Lubbock   |                     |            |
| Analysis:   | Mn, Total | Analytical Method:  | S 6010C    |
| QC Batch:   | 126119    | Date Analyzed:      | 2015-11-05 |
| Prep Batch: | 106615    | Sample Preparation: | 2015-11-02 |
|             |           | Prep Method:        | S 3010A    |
|             |           | Analyzed By:        | RR         |
|             |           | Prepared By:        | RR         |

| Parameter       | Flag | Cert    | RL<br>Result  | Units | Dilution | RL      |
|-----------------|------|---------|---------------|-------|----------|---------|
| Total Manganese |      | 2,3,4,6 | <b>0.0560</b> | mg/L  | 1        | 0.00500 |

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**Sample: 407219 - Post**

|             |           |                     |            |              |         |
|-------------|-----------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock   |                     |            |              |         |
| Analysis:   | Mo, Total | Analytical Method:  | S 6010C    | Prep Method: | S 3010A |
| QC Batch:   | 126119    | Date Analyzed:      | 2015-11-05 | Analyzed By: | RR      |
| Prep Batch: | 106615    | Sample Preparation: | 2015-11-02 | Prepared By: | RR      |

| Parameter        | Flag | Cert    | RL<br>Result | Units | Dilution | RL     |
|------------------|------|---------|--------------|-------|----------|--------|
| Total Molybdenum | U    | 2,3,4,6 | <0.0500      | mg/L  | 1        | 0.0500 |

**Sample: 407219 - Post**

|             |           |                     |            |              |         |
|-------------|-----------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock   |                     |            |              |         |
| Analysis:   | Ni, Total | Analytical Method:  | S 6010C    | Prep Method: | S 3010A |
| QC Batch:   | 126119    | Date Analyzed:      | 2015-11-05 | Analyzed By: | RR      |
| Prep Batch: | 106615    | Sample Preparation: | 2015-11-02 | Prepared By: | RR      |

| Parameter    | Flag | Cert    | RL<br>Result | Units | Dilution | RL     |
|--------------|------|---------|--------------|-------|----------|--------|
| Total Nickel | U    | 2,3,4,6 | <0.0100      | mg/L  | 1        | 0.0100 |

**Sample: 407219 - Post**

|             |         |                     |            |              |         |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock |                     |            |              |         |
| Analysis:   | PAH     | Analytical Method:  | S 8270D    | Prep Method: | S 3510C |
| QC Batch:   | 126505  | Date Analyzed:      | 2015-11-20 | Analyzed By: | MN      |
| Prep Batch: | 107054  | Sample Preparation: | 2015-11-04 | Prepared By: | MN      |

| Parameter            | Flag | Cert      | RL<br>Result | Units | Dilution | RL       |
|----------------------|------|-----------|--------------|-------|----------|----------|
| Naphthalene          | U    | 1,2,3,4,6 | <0.000196    | mg/L  | 0.98     | 0.000200 |
| 2-Methylnaphthalene  | U    | 1,2,3,4,6 | <0.000196    | mg/L  | 0.98     | 0.000200 |
| 1-Methylnaphthalene  | U    | 1         | <0.000196    | mg/L  | 0.98     | 0.000200 |
| Acenaphthylene       | U    | 1,2,3,4,6 | <0.000196    | mg/L  | 0.98     | 0.000200 |
| Acenaphthene         | U    | 1,2,3,4,6 | <0.000196    | mg/L  | 0.98     | 0.000200 |
| Dibenzofuran         | U    | 1,2,3,4,6 | <0.000196    | mg/L  | 0.98     | 0.000200 |
| Fluorene             | U    | 1,2,3,4,6 | <0.000196    | mg/L  | 0.98     | 0.000200 |
| Anthracene           | U    | 1,2,3,4,6 | <0.000196    | mg/L  | 0.98     | 0.000200 |
| Phenanthrene         | U    | 1,2,3,4,6 | <0.000196    | mg/L  | 0.98     | 0.000200 |
| Fluoranthene         | U    | 1,2,3,4,6 | <0.000196    | mg/L  | 0.98     | 0.000200 |
| Pyrene               | U    | 1,2,3,4,6 | <0.000196    | mg/L  | 0.98     | 0.000200 |
| Benzo(a)anthracene   | U    | 1,2,3,4,6 | <0.000196    | mg/L  | 0.98     | 0.000200 |
| Chrysene             | U    | 1,2,3,4,6 | <0.000196    | mg/L  | 0.98     | 0.000200 |
| Benzo(b)fluoranthene | U    | 1,2,3,4,6 | <0.000196    | mg/L  | 0.98     | 0.000200 |

*continued ...*

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sample 407219 continued ...

| Parameter              | Flag | Cert      | RL        | Units | Dilution | RL       |
|------------------------|------|-----------|-----------|-------|----------|----------|
|                        |      |           | Result    |       |          |          |
| Benzo(k)fluoranthene   | U    | 1,2,3,4,6 | <0.000196 | mg/L  | 0.98     | 0.000200 |
| Benzo(a)pyrene         | U    | 1,2,3,4,6 | <0.000196 | mg/L  | 0.98     | 0.000200 |
| Indeno(1,2,3-cd)pyrene | U    | 1,2,3,4,6 | <0.000196 | mg/L  | 0.98     | 0.000200 |
| Dibenzo(a,h)anthracene | U    | 1,2,3,4,6 | <0.000196 | mg/L  | 0.98     | 0.000200 |
| Benzo(g,h,i)perylene   | U    | 1,2,3,4,6 | <0.000196 | mg/L  | 0.98     | 0.000200 |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      |      | 0.0504 | mg/L  | 0.98     | 0.0800       | 63               | 10 - 120        |
| 2-Fluorobiphenyl |      |      | 0.0528 | mg/L  | 0.98     | 0.0800       | 66               | 35.9 - 120      |
| Terphenyl-d14    |      |      | 0.0579 | mg/L  | 0.98     | 0.0800       | 72               | 23.2 - 120      |

#### Sample: 407219 - Post

|             |                |                     |            |  |  |              |         |
|-------------|----------------|---------------------|------------|--|--|--------------|---------|
| Laboratory: | Lubbock        |                     |            |  |  |              |         |
| Analysis:   | Total 8 Metals | Analytical Method:  | S 7470A    |  |  | Prep Method: | N/A     |
| QC Batch:   | 126102         | Date Analyzed:      | 2015-11-05 |  |  | Analyzed By: | TP      |
| Prep Batch: | 106691         | Sample Preparation: | 2015-11-05 |  |  | Prepared By: | TP      |
| Laboratory: | Lubbock        |                     |            |  |  |              |         |
| Analysis:   | Total 8 Metals | Analytical Method:  | S 6010C    |  |  | Prep Method: | S 3010A |
| QC Batch:   | 126119         | Date Analyzed:      | 2015-11-05 |  |  | Analyzed By: | RR      |
| Prep Batch: | 106615         | Sample Preparation: | 2015-11-02 |  |  | Prepared By: | RR      |

| Parameter      | Flag | Cert      | RL           | Units | Dilution | RL       |
|----------------|------|-----------|--------------|-------|----------|----------|
|                |      |           | Result       |       |          |          |
| Total Silver   | U    | 2,3,4,6   | <0.00500     | mg/L  | 1        | 0.00500  |
| Total Arsenic  | U    | 2,3,4,6   | <0.0100      | mg/L  | 1        | 0.0100   |
| Total Barium   |      | 2,3,4     | <b>0.239</b> | mg/L  | 1        | 0.0100   |
| Total Cadmium  | U    | 2,3,4,6   | <0.00500     | mg/L  | 1        | 0.00500  |
| Total Chromium | U    | 2,3,4,6   | <0.0100      | mg/L  | 1        | 0.0100   |
| Total Mercury  | U    | 1,2,3,4,6 | <0.000200    | mg/L  | 1        | 0.000200 |
| Total Lead     | U    | 2,3,4,6   | <0.0150      | mg/L  | 1        | 0.0150   |
| Total Selenium | U    | 2,3,4,6   | <0.0200      | mg/L  | 1        | 0.0200   |

#### Sample: 407219 - Post

|             |           |                     |            |  |  |              |         |
|-------------|-----------|---------------------|------------|--|--|--------------|---------|
| Laboratory: | Lubbock   |                     |            |  |  |              |         |
| Analysis:   | Zn, Total | Analytical Method:  | S 6010C    |  |  | Prep Method: | S 3010A |
| QC Batch:   | 126119    | Date Analyzed:      | 2015-11-05 |  |  | Analyzed By: | RR      |
| Prep Batch: | 106615    | Sample Preparation: | 2015-11-02 |  |  | Prepared By: | RR      |

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| Parameter  | Flag | Cert    | RL<br>Result  | Units | Dilution | RL     |
|------------|------|---------|---------------|-------|----------|--------|
| Total Zinc |      | 2,3,4,6 | <b>0.0140</b> | mg/L  | 1        | 0.0100 |

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## Method Blanks

### Method Blank (1) QC Batch: 125972

QC Batch: 125972 Date Analyzed: 2015-10-30 Analyzed By: AK  
Prep Batch: 106577 QC Preparation: 2015-10-29 Prepared By: AK

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL    |
|--------------|------|------|---------------|-------|-------|
| Benzene      |      | 5    | <0.000299     | mg/L  | 0.001 |
| Toluene      |      | 5    | <0.000247     | mg/L  | 0.001 |
| Ethylbenzene |      | 5    | <0.000423     | mg/L  | 0.001 |
| Xylene       |      | 5    | <0.000552     | mg/L  | 0.001 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0947 | mg/L  | 1        | 0.100           | 95                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0965 | mg/L  | 1        | 0.100           | 96                  | 70 - 130           |

### Method Blank (1) QC Batch: 126102

QC Batch: 126102 Date Analyzed: 2015-11-05 Analyzed By: TP  
Prep Batch: 106691 QC Preparation: 2015-11-04 Prepared By: TP

| Parameter     | Flag | Cert      | MDL<br>Result | Units | RL     |
|---------------|------|-----------|---------------|-------|--------|
| Total Mercury |      | 1,2,3,4,6 | <0.0000329    | mg/L  | 0.0002 |

### Method Blank (1) QC Batch: 126119

QC Batch: 126119 Date Analyzed: 2015-11-05 Analyzed By: RR  
Prep Batch: 106615 QC Preparation: 2015-11-02 Prepared By: PM

| Parameter      | Flag | Cert    | MDL<br>Result | Units | RL   |
|----------------|------|---------|---------------|-------|------|
| Total Aluminum |      | 2,3,4,6 | <0.00469      | mg/L  | 0.05 |

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**Method Blank (1)**      QC Batch: 126119

QC Batch: 126119      Date Analyzed: 2015-11-05      Analyzed By: RR  
Prep Batch: 106615      QC Preparation: 2015-11-02      Prepared By: PM

| Parameter   | Flag | Cert    | MDL<br>Result | Units | RL   |
|-------------|------|---------|---------------|-------|------|
| Total Boron |      | 2,3,4,6 | <0.00393      | mg/L  | 0.01 |

**Method Blank (1)**      QC Batch: 126119

QC Batch: 126119      Date Analyzed: 2015-11-05      Analyzed By: RR  
Prep Batch: 106615      QC Preparation: 2015-11-02      Prepared By: PM

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL   |
|--------------|------|------|---------------|-------|------|
| Total Cobalt |      | 2,3  | <0.000767     | mg/L  | 0.01 |

**Method Blank (1)**      QC Batch: 126119

QC Batch: 126119      Date Analyzed: 2015-11-05      Analyzed By: RR  
Prep Batch: 106615      QC Preparation: 2015-11-02      Prepared By: PM

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL    |
|--------------|------|------|---------------|-------|-------|
| Total Copper |      | 2,3  | <0.000598     | mg/L  | 0.005 |

**Method Blank (1)**      QC Batch: 126119

QC Batch: 126119      Date Analyzed: 2015-11-05      Analyzed By: RR  
Prep Batch: 106615      QC Preparation: 2015-11-02      Prepared By: PM

| Parameter  | Flag | Cert | MDL<br>Result | Units | RL   |
|------------|------|------|---------------|-------|------|
| Total Iron |      | 2,3  | <0.00700      | mg/L  | 0.01 |

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**Method Blank (1)**      QC Batch: 126119

QC Batch:    126119                      Date Analyzed:    2015-11-05                      Analyzed By:    RR  
Prep Batch:   106615                      QC Preparation:    2015-11-02                      Prepared By:    PM

| Parameter       | Flag | Cert    | MDL<br>Result | Units | RL    |
|-----------------|------|---------|---------------|-------|-------|
| Total Manganese |      | 2,3,4,6 | <0.000382     | mg/L  | 0.005 |

**Method Blank (1)**      QC Batch: 126119

QC Batch:    126119                      Date Analyzed:    2015-11-05                      Analyzed By:    RR  
Prep Batch:   106615                      QC Preparation:    2015-11-02                      Prepared By:    PM

| Parameter        | Flag | Cert    | MDL<br>Result | Units | RL   |
|------------------|------|---------|---------------|-------|------|
| Total Molybdenum |      | 2,3,4,6 | <0.00121      | mg/L  | 0.05 |

**Method Blank (1)**      QC Batch: 126119

QC Batch:    126119                      Date Analyzed:    2015-11-05                      Analyzed By:    RR  
Prep Batch:   106615                      QC Preparation:    2015-11-02                      Prepared By:    PM

| Parameter    | Flag | Cert    | MDL<br>Result | Units | RL   |
|--------------|------|---------|---------------|-------|------|
| Total Nickel |      | 2,3,4,6 | <0.000356     | mg/L  | 0.01 |

**Method Blank (1)**      QC Batch: 126119

QC Batch:    126119                      Date Analyzed:    2015-11-05                      Analyzed By:    RR  
Prep Batch:   106615                      QC Preparation:    2015-11-02                      Prepared By:    PM

| Parameter  | Flag | Cert    | MDL<br>Result | Units | RL   |
|------------|------|---------|---------------|-------|------|
| Total Zinc |      | 2,3,4,6 | <0.00442      | mg/L  | 0.01 |

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**Method Blank (1)**      QC Batch: 126119

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Parameter      | Flag | Cert    | MDL<br>Result | Units | RL    |
|----------------|------|---------|---------------|-------|-------|
| Total Silver   |      | 2,3,4,6 | <0.000513     | mg/L  | 0.005 |
| Total Arsenic  |      | 2,3,4,6 | <0.00536      | mg/L  | 0.01  |
| Total Barium   |      | 2,3,4   | <0.000336     | mg/L  | 0.01  |
| Total Cadmium  |      | 2,3,4,6 | <0.000423     | mg/L  | 0.005 |
| Total Chromium |      | 2,3,4,6 | <0.000394     | mg/L  | 0.01  |
| Total Lead     |      | 2,3,4,6 | <0.00276      | mg/L  | 0.015 |
| Total Selenium |      | 2,3,4,6 | <0.00150      | mg/L  | 0.02  |

**Method Blank (1)**      QC Batch: 126505

QC Batch: 126505  
Prep Batch: 107054

Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-04

Analyzed By: MN  
Prepared By: MN

| Parameter              | Flag | Cert      | MDL<br>Result | Units | RL     |
|------------------------|------|-----------|---------------|-------|--------|
| Naphthalene            |      | 1,2,3,4,6 | <0.0000656    | mg/L  | 0.0002 |
| 2-Methylnaphthalene    |      | 1,2,3,4,6 | <0.0000516    | mg/L  | 0.0002 |
| 1-Methylnaphthalene    |      | 1         | <0.0000663    | mg/L  | 0.0002 |
| Acenaphthylene         |      | 1,2,3,4,6 | <0.0000581    | mg/L  | 0.0002 |
| Acenaphthene           |      | 1,2,3,4,6 | <0.0000332    | mg/L  | 0.0002 |
| Dibenzofuran           |      | 1,2,3,4,6 | <0.0000607    | mg/L  | 0.0002 |
| Fluorene               |      | 1,2,3,4,6 | <0.0000788    | mg/L  | 0.0002 |
| Anthracene             |      | 1,2,3,4,6 | <0.0000321    | mg/L  | 0.0002 |
| Phenanthrene           |      | 1,2,3,4,6 | <0.0000516    | mg/L  | 0.0002 |
| Fluoranthene           |      | 1,2,3,4,6 | <0.0000638    | mg/L  | 0.0002 |
| Pyrene                 |      | 1,2,3,4,6 | <0.0000415    | mg/L  | 0.0002 |
| Benzo(a)anthracene     |      | 1,2,3,4,6 | <0.0000721    | mg/L  | 0.0002 |
| Chrysene               |      | 1,2,3,4,6 | <0.0000811    | mg/L  | 0.0002 |
| Benzo(b)fluoranthene   |      | 1,2,3,4,6 | <0.0000710    | mg/L  | 0.0002 |
| Benzo(k)fluoranthene   |      | 1,2,3,4,6 | <0.0000561    | mg/L  | 0.0002 |
| Benzo(a)pyrene         |      | 1,2,3,4,6 | <0.0000418    | mg/L  | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | 1,2,3,4,6 | <0.0000537    | mg/L  | 0.0002 |
| Dibenzo(a,h)anthracene |      | 1,2,3,4,6 | <0.0000562    | mg/L  | 0.0002 |
| Benzo(g,h,i)perylene   |      | 1,2,3,4,6 | <0.0000519    | mg/L  | 0.0002 |

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| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      |      | 0.0489 | mg/L  | 1        | 0.0800          | 61                  | 10 - 120           |
| 2-Fluorobiphenyl |      |      | 0.0513 | mg/L  | 1        | 0.0800          | 64                  | 35.9 - 120         |
| Terphenyl-d14    |      |      | 0.0529 | mg/L  | 1        | 0.0800          | 66                  | 23.2 - 120         |

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## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 125972  
Prep Batch: 106577

Date Analyzed: 2015-10-30  
QC Preparation: 2015-10-29

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.0996        | mg/L  | 1    | 0.100           | <0.000299        | 100  | 70 - 130      |
| Toluene      |   | 5 | 0.114         | mg/L  | 1    | 0.100           | <0.000247        | 114  | 70 - 130      |
| Ethylbenzene |   | 5 | 0.118         | mg/L  | 1    | 0.100           | <0.000423        | 118  | 70 - 130      |
| Xylene       |   | 5 | 0.350         | mg/L  | 1    | 0.300           | <0.000552        | 117  | 70 - 130      |

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

| Param        | F | C | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.0953         | mg/L  | 1    | 0.100           | <0.000299        | 95   | 70 - 130      | 4   | 20           |
| Toluene      |   | 5 | 0.110          | mg/L  | 1    | 0.100           | <0.000247        | 110  | 70 - 130      | 4   | 20           |
| Ethylbenzene |   | 5 | 0.112          | mg/L  | 1    | 0.100           | <0.000423        | 112  | 70 - 130      | 5   | 20           |
| Xylene       |   | 5 | 0.334          | mg/L  | 1    | 0.300           | <0.000552        | 111  | 70 - 130      | 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)       | 0.0929        | 0.0869         | mg/L  | 1    | 0.100           | 93          | 87           | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.101         | 0.0960         | mg/L  | 1    | 0.100           | 101         | 96           | 70 - 130      |

### Laboratory Control Spike (LCS-1)

QC Batch: 126102  
Prep Batch: 106691

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-04

Analyzed By: TP  
Prepared By: TP

| Param         | F | C         | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|---------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Mercury |   | 1,2,3,4,6 | 0.00404       | mg/L  | 1    | 0.00400         | <0.0000329       | 101  | 85 - 115      |

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

*continued ...*

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| Param         | F | C         | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|---------------|---|-----------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Param         | F | C         | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
| Total Mercury |   | 1,2,3,4,6 | 0.00406        | mg/L  | 1    | 0.00400         | <0.0000329       | 102  | 85 - 115      | 0   | 20           |

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

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

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param          | F | C       | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Aluminum |   | 2,3,4,6 | 0.994         | mg/L  | 1    | 1.00            | <0.00469         | 99   | 85 - 115      |

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

| Param          | F | C       | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------------|---|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Aluminum |   | 2,3,4,6 | 0.971          | mg/L  | 1    | 1.00            | <0.00469         | 97   | 85 - 115      | 2   | 20           |

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

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

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param       | F | C       | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Boron |   | 2,3,4,6 | 0.0480        | mg/L  | 1    | 0.0500          | <0.00393         | 96   | 85 - 115      |

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

| Param       | F | C       | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-------------|---|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Boron |   | 2,3,4,6 | 0.0450         | mg/L  | 1    | 0.0500          | <0.00393         | 90   | 85 - 115      | 6   | 20           |

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

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

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param        | F | C   | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|-----|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Cobalt |   | 2,3 | 0.248         | mg/L  | 1    | 0.250           | <0.000767        | 99   | 85 - 115      |

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

| Param        | F | C   | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|-----|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Cobalt |   | 2,3 | 0.246          | mg/L  | 1    | 0.250           | <0.000767        | 98   | 85 - 115      | 1   | 20           |

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

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

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param        | F | C   | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|-----|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Copper |   | 2,3 | 0.123         | mg/L  | 1    | 0.125           | <0.000598        | 98   | 85 - 115      |

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

| Param        | F | C   | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|-----|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Copper |   | 2,3 | 0.116          | mg/L  | 1    | 0.125           | <0.000598        | 93   | 85 - 115      | 6   | 20           |

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

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

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param      | F | C   | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------|---|-----|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Iron |   | 2,3 | 0.466         | mg/L  | 1    | 0.500           | <0.00700         | 93   | 85 - 115      |

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

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| Param      | F | C   | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------|---|-----|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Iron |   | 2,3 | 0.463         | mg/L  | 1    | 0.500           | <0.00700         | 93   | 85 - 115      | 1   | 20           |

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

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

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param           | F | C       | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Manganese |   | 2,3,4,6 | 0.241         | mg/L  | 1    | 0.250           | <0.000382        | 96   | 85 - 115      |

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

| Param           | F | C       | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Manganese |   | 2,3,4,6 | 0.245         | mg/L  | 1    | 0.250           | <0.000382        | 98   | 85 - 115      | 2   | 20           |

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

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

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param            | F | C       | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Molybdenum |   | 2,3,4,6 | 0.474         | mg/L  | 1    | 0.500           | <0.00121         | 95   | 85 - 115      |

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

| Param            | F | C       | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Molybdenum |   | 2,3,4,6 | 0.483         | mg/L  | 1    | 0.500           | <0.00121         | 97   | 85 - 115      | 2   | 20           |

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

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

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

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| Param        | F | C       | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Nickel |   | 2,3,4,6 | 0.249         | mg/L  | 1    | 0.250           | <0.000356        | 100  | 85 - 115      |

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

| Param        | F | C       | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Nickel |   | 2,3,4,6 | 0.257          | mg/L  | 1    | 0.250           | <0.000356        | 103  | 85 - 115      | 3   | 20           |

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

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

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param      | F | C       | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Zinc |   | 2,3,4,6 | 0.233         | mg/L  | 1    | 0.250           | <0.00442         | 93   | 85 - 115      |

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

| Param      | F | C       | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------|---|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Zinc |   | 2,3,4,6 | 0.236          | mg/L  | 1    | 0.250           | <0.00442         | 94   | 85 - 115      | 1   | 20           |

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

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

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param          | F | C       | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Silver   |   | 2,3,4,6 | 0.118         | mg/L  | 1    | 0.125           | <0.000513        | 94   | 85 - 115      |
| Total Arsenic  |   | 2,3,4,6 | 0.480         | mg/L  | 1    | 0.500           | <0.00536         | 96   | 85 - 115      |
| Total Barium   |   | 2,3,4   | 0.939         | mg/L  | 1    | 1.00            | <0.000336        | 94   | 85 - 115      |
| Total Cadmium  |   | 2,3,4,6 | 0.244         | mg/L  | 1    | 0.250           | <0.000423        | 98   | 85 - 115      |
| Total Chromium |   | 2,3,4,6 | 0.0970        | mg/L  | 1    | 0.100           | <0.000394        | 97   | 85 - 115      |
| Total Lead     |   | 2,3,4,6 | 0.472         | mg/L  | 1    | 0.500           | <0.00276         | 94   | 85 - 115      |
| Total Selenium |   | 2,3,4,6 | 0.450         | mg/L  | 1    | 0.500           | <0.00150         | 90   | 85 - 115      |

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

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| Param          | F | C       | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------------|---|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Silver   |   | 2,3,4,6 | 0.121          | mg/L  | 1    | 0.125           | <0.000513        | 97   | 85 - 115      | 2   | 20           |
| Total Arsenic  |   | 2,3,4,6 | 0.500          | mg/L  | 1    | 0.500           | <0.00536         | 100  | 85 - 115      | 4   | 20           |
| Total Barium   |   | 2,3,4   | 0.951          | mg/L  | 1    | 1.00            | <0.000336        | 95   | 85 - 115      | 1   | 20           |
| Total Cadmium  |   | 2,3,4,6 | 0.248          | mg/L  | 1    | 0.250           | <0.000423        | 99   | 85 - 115      | 2   | 20           |
| Total Chromium |   | 2,3,4,6 | 0.0990         | mg/L  | 1    | 0.100           | <0.000394        | 99   | 85 - 115      | 2   | 20           |
| Total Lead     |   | 2,3,4,6 | 0.475          | mg/L  | 1    | 0.500           | <0.00276         | 95   | 85 - 115      | 1   | 20           |
| Total Selenium |   | 2,3,4,6 | 0.493          | mg/L  | 1    | 0.500           | <0.00150         | 99   | 85 - 115      | 9   | 20           |

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

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

QC Batch: 126505  
Prep Batch: 107054

Date Analyzed: 2015-11-20  
QC Preparation: 2015-11-04

Analyzed By: MN  
Prepared By: MN

| Param                  | F  | C         | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|----|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Naphthalene            |    | 1,2,3,4,6 | 0.0659        | mg/L  | 1    | 0.0800          | <0.0000656       | 82   | 49.7 - 120    |
| 2-Methylnaphthalene    |    | 1,2,3,4,6 | 0.0653        | mg/L  | 1    | 0.0800          | <0.0000516       | 82   | 44.6 - 120    |
| 1-Methylnaphthalene    |    | 1         | 0.0670        | mg/L  | 1    | 0.0800          | <0.0000663       | 84   | 10 - 189      |
| Acenaphthylene         |    | 1,2,3,4,6 | 0.0700        | mg/L  | 1    | 0.0800          | <0.0000581       | 88   | 40.9 - 120    |
| Acenaphthene           |    | 1,2,3,4,6 | 0.0687        | mg/L  | 1    | 0.0800          | <0.0000332       | 86   | 49.9 - 120    |
| Dibenzofuran           |    | 1,2,3,4,6 | 0.0744        | mg/L  | 1    | 0.0800          | <0.0000607       | 93   | 34 - 120      |
| Fluorene               |    | 1,2,3,4,6 | 0.0673        | mg/L  | 1    | 0.0800          | <0.0000788       | 84   | 49.7 - 120    |
| Anthracene             |    | 1,2,3,4,6 | 0.0676        | mg/L  | 1    | 0.0800          | <0.0000321       | 84   | 11.4 - 155    |
| Phenanthrene           |    | 1,2,3,4,6 | 0.0652        | mg/L  | 1    | 0.0800          | <0.0000516       | 82   | 41 - 120      |
| Fluoranthene           |    | 1,2,3,4,6 | 0.0648        | mg/L  | 1    | 0.0800          | <0.0000638       | 81   | 35.7 - 120    |
| Pyrene                 |    | 1,2,3,4,6 | 0.0700        | mg/L  | 1    | 0.0800          | <0.0000415       | 88   | 19.5 - 139    |
| Benzo(a)anthracene     |    | 1,2,3,4,6 | 0.0638        | mg/L  | 1    | 0.0800          | <0.0000721       | 80   | 53.4 - 120    |
| Chrysene               | Qs | Qs        | 0.146         | mg/L  | 1    | 0.0800          | <0.0000811       | 182  | 10 - 170      |
| Benzo(b)fluoranthene   |    | 1,2,3,4,6 | 0.0650        | mg/L  | 1    | 0.0800          | <0.0000710       | 81   | 29.2 - 120    |
| Benzo(k)fluoranthene   |    | 1,2,3,4,6 | 0.0780        | mg/L  | 1    | 0.0800          | <0.0000561       | 98   | 23.4 - 120    |
| Benzo(a)pyrene         |    | 1,2,3,4,6 | 0.0731        | mg/L  | 1    | 0.0800          | <0.0000418       | 91   | 23.4 - 120    |
| Indeno(1,2,3-cd)pyrene |    | 1,2,3,4,6 | 0.0773        | mg/L  | 1    | 0.0800          | <0.0000537       | 97   | 10 - 129      |
| Dibenzo(a,h)anthracene |    | 1,2,3,4,6 | 0.119         | mg/L  | 1    | 0.0800          | <0.0000562       | 149  | 10 - 174      |
| Benzo(g,h,i)perylene   |    | 1,2,3,4,6 | 0.0900        | mg/L  | 1    | 0.0800          | <0.0000519       | 112  | 30.6 - 120    |

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

| Param               | F | C         | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|---------------------|---|-----------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Naphthalene         |   | 1,2,3,4,6 | 0.0690         | mg/L  | 1    | 0.0800          | <0.0000656       | 86   | 49.7 - 120    | 5   | 20           |
| 2-Methylnaphthalene |   | 1,2,3,4,6 | 0.0697         | mg/L  | 1    | 0.0800          | <0.0000516       | 87   | 44.6 - 120    | 6   | 20           |
| 1-Methylnaphthalene |   | 1         | 0.0711         | mg/L  | 1    | 0.0800          | <0.0000663       | 89   | 10 - 189      | 6   | 20           |

*continued ...*

control spikes continued ...

| Param                  | F  | C            | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|----|--------------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Acenaphthylene         |    | 1,2,3,4,6    | 0.0716        | mg/L  | 1    | 0.0800          | <0.0000581       | 90   | 40.9 - 120    | 2   | 20           |
| Acenaphthene           |    | 1,2,3,4,6    | 0.0704        | mg/L  | 1    | 0.0800          | <0.0000332       | 88   | 49.9 - 120    | 2   | 20           |
| Dibenzofuran           |    | 1,2,3,4,6    | 0.0759        | mg/L  | 1    | 0.0800          | <0.0000607       | 95   | 34 - 120      | 2   | 20           |
| Fluorene               |    | 1,2,3,4,6    | 0.0682        | mg/L  | 1    | 0.0800          | <0.0000788       | 85   | 49.7 - 120    | 1   | 20           |
| Anthracene             |    | 1,2,3,4,6    | 0.0686        | mg/L  | 1    | 0.0800          | <0.0000321       | 86   | 11.4 - 155    | 2   | 20           |
| Phenanthrene           |    | 1,2,3,4,6    | 0.0665        | mg/L  | 1    | 0.0800          | <0.0000516       | 83   | 41 - 120      | 2   | 20           |
| Fluoranthene           |    | 1,2,3,4,6    | 0.0657        | mg/L  | 1    | 0.0800          | <0.0000638       | 82   | 35.7 - 120    | 1   | 20           |
| Pyrene                 |    | 1,2,3,4,6    | 0.0718        | mg/L  | 1    | 0.0800          | <0.0000415       | 90   | 19.5 - 139    | 2   | 20           |
| Benzo(a)anthracene     |    | 1,2,3,4,6    | 0.0650        | mg/L  | 1    | 0.0800          | <0.0000721       | 81   | 53.4 - 120    | 2   | 20           |
| Chrysene               | Qs | Qs 1,2,3,4,6 | 0.148         | mg/L  | 1    | 0.0800          | <0.0000811       | 185  | 10 - 170      | 1   | 20           |
| Benzo(b)fluoranthene   |    | 1,2,3,4,6    | 0.0663        | mg/L  | 1    | 0.0800          | <0.0000710       | 83   | 29.2 - 120    | 2   | 20           |
| Benzo(k)fluoranthene   |    | 1,2,3,4,6    | 0.0796        | mg/L  | 1    | 0.0800          | <0.0000561       | 100  | 23.4 - 120    | 2   | 20           |
| Benzo(a)pyrene         |    | 1,2,3,4,6    | 0.0753        | mg/L  | 1    | 0.0800          | <0.0000418       | 94   | 23.4 - 120    | 3   | 20           |
| Indeno(1,2,3-cd)pyrene |    | 1,2,3,4,6    | 0.0794        | mg/L  | 1    | 0.0800          | <0.0000537       | 99   | 10 - 129      | 3   | 20           |
| Dibenzo(a,h)anthracene |    | 1,2,3,4,6    | 0.122         | mg/L  | 1    | 0.0800          | <0.0000562       | 152  | 10 - 174      | 2   | 20           |
| Benzo(g,h,i)perylene   |    | 1,2,3,4,6    | 0.0913        | mg/L  | 1    | 0.0800          | <0.0000519       | 114  | 30.6 - 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 | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Nitrobenzene-d5  | 0.0702        | 0.0719        | mg/L  | 1    | 0.0800          | 88          | 90          | 10 - 120      |
| 2-Fluorobiphenyl | 0.0743        | 0.0747        | mg/L  | 1    | 0.0800          | 93          | 93          | 35.9 - 120    |
| Terphenyl-d14    | 0.0779        | 0.0799        | mg/L  | 1    | 0.0800          | 97          | 100         | 23.2 - 120    |

## Matrix Spikes

### Matrix Spike (MS-1) Spiked Sample: 407219

QC Batch: 125972  
Prep Batch: 106577

Date Analyzed: 2015-10-30  
QC Preparation: 2015-10-29

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.0963       | mg/L  | 1    | 0.100           | <0.000299        | 96   | 70 - 130      |
| Toluene      |   | 5 | 0.112        | mg/L  | 1    | 0.100           | <0.000247        | 112  | 70 - 130      |
| Ethylbenzene |   | 5 | 0.117        | mg/L  | 1    | 0.100           | <0.000423        | 117  | 70 - 130      |
| Xylene       |   | 5 | 0.344        | mg/L  | 1    | 0.300           | <0.000552        | 115  | 70 - 130      |

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

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.0856        | mg/L  | 1    | 0.100           | <0.000299        | 86   | 70 - 130      | 12  | 20           |
| Toluene      |   | 5 | 0.0965        | mg/L  | 1    | 0.100           | <0.000247        | 96   | 70 - 130      | 15  | 20           |
| Ethylbenzene |   | 5 | 0.101         | mg/L  | 1    | 0.100           | <0.000423        | 101  | 70 - 130      | 15  | 20           |
| Xylene       |   | 5 | 0.299         | mg/L  | 1    | 0.300           | <0.000552        | 100  | 70 - 130      | 14  | 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)       | 0.0919       | 0.0922        | mg/L  | 1    | 0.1             | 92         | 92          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.101        | 0.100         | mg/L  | 1    | 0.1             | 101        | 100         | 70 - 130      |

### Matrix Spike (MS-1) Spiked Sample: 407384

QC Batch: 126102  
Prep Batch: 106691

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-04

Analyzed By: TP  
Prepared By: TP

| Param         | F | C         | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|---------------|---|-----------|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Mercury |   | 1,2,3,4,6 | 0.00320      | mg/L  | 1    | 0.00400         | <0.0000329       | 80   | 75 - 125      |

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

*continued ...*

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*matrix spikes continued ...*

| Param         | F | C         | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|---------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Param         | F | C         | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
| Total Mercury |   | 1,2,3,4,6 | 0.00315       | mg/L  | 1    | 0.00400         | <0.0000329       | 79   | 75 - 125      | 2   | 20           |

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

**Matrix Spike (MS-1)**      Spiked Sample: 407254

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param          | F | C       | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------------|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Aluminum |   | 2,3,4,6 | 0.944        | mg/L  | 1    | 1.00            | <0.00469         | 94   | 75 - 125      |

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

| Param          | F | C       | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Aluminum |   | 2,3,4,6 | 0.927         | mg/L  | 1    | 1.00            | <0.00469         | 93   | 75 - 125      | 2   | 20           |

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

**Matrix Spike (MS-1)**      Spiked Sample: 407254

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param       | F | C       | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-------------|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Boron |   | 2,3,4,6 | 0.0470       | mg/L  | 1    | 0.0500          | <0.00393         | 94   | 75 - 125      |

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

| Param       | F | C       | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Boron |   | 2,3,4,6 | 0.0480        | mg/L  | 1    | 0.0500          | <0.00393         | 96   | 75 - 125      | 2   | 20           |

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

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**Matrix Spike (MS-1)** Spiked Sample: 407254

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param        | F | C   | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|-----|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Cobalt |   | 2,3 | 0.240        | mg/L  | 1    | 0.250           | <0.000767        | 96   | 75 - 125      |

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

| Param        | F | C   | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|-----|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Cobalt |   | 2,3 | 0.240         | mg/L  | 1    | 0.250           | <0.000767        | 96   | 75 - 125      | 0   | 20           |

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

**Matrix Spike (MS-1)** Spiked Sample: 407254

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param        | F | C   | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|-----|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Copper |   | 2,3 | 0.134        | mg/L  | 1    | 0.125           | 0.012            | 98   | 75 - 125      |

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

| Param        | F | C   | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|-----|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Copper |   | 2,3 | 0.133         | mg/L  | 1    | 0.125           | 0.012            | 97   | 75 - 125      | 1   | 20           |

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

**Matrix Spike (MS-1)** Spiked Sample: 407254

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param      | F | C   | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------|---|-----|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Iron |   | 2,3 | 0.501        | mg/L  | 1    | 0.500           | <0.00700         | 100  | 75 - 125      |

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

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| Param      | F | C   | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------|---|-----|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Iron |   | 2,3 | 0.521         | mg/L  | 1    | 0.500           | <0.00700         | 104  | 75 - 125      | 4   | 20           |

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

**Matrix Spike (MS-1)** Spiked Sample: 407254

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param           | F | C       | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Manganese |   | 2,3,4,6 | 0.238        | mg/L  | 1    | 0.250           | <0.000382        | 95   | 75 - 125      |

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

| Param           | F | C       | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Manganese |   | 2,3,4,6 | 0.239         | mg/L  | 1    | 0.250           | <0.000382        | 96   | 75 - 125      | 0   | 20           |

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

**Matrix Spike (MS-1)** Spiked Sample: 407254

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param            | F | C       | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Molybdenum |   | 2,3,4,6 | 0.487        | mg/L  | 1    | 0.500           | <0.00121         | 97   | 75 - 125      |

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

| Param            | F | C       | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Molybdenum |   | 2,3,4,6 | 0.490         | mg/L  | 1    | 0.500           | <0.00121         | 98   | 75 - 125      | 1   | 20           |

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

**Matrix Spike (MS-1)** Spiked Sample: 407254

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
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| Param        | F | C       | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Nickel |   | 2,3,4,6 | 0.238        | mg/L  | 1    | 0.250           | <0.000356        | 95   | 75 - 125      |

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

| Param        | F | C       | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Nickel |   | 2,3,4,6 | 0.239         | mg/L  | 1    | 0.250           | <0.000356        | 96   | 75 - 125      | 0   | 20           |

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

**Matrix Spike (MS-1)** Spiked Sample: 407254

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param      | F | C       | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Zinc |   | 2,3,4,6 | 0.259        | mg/L  | 1    | 0.250           | <0.00442         | 104  | 75 - 125      |

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

| Param      | F | C       | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Zinc |   | 2,3,4,6 | 0.232         | mg/L  | 1    | 0.250           | <0.00442         | 93   | 75 - 125      | 11  | 20           |

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

**Matrix Spike (MS-1)** Spiked Sample: 407254

QC Batch: 126119  
Prep Batch: 106615

Date Analyzed: 2015-11-05  
QC Preparation: 2015-11-02

Analyzed By: RR  
Prepared By: PM

| Param          | F | C       | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------------|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Silver   |   | 2,3,4,6 | 0.120        | mg/L  | 1    | 0.125           | <0.000513        | 96   | 75 - 125      |
| Total Arsenic  |   | 2,3,4,6 | 0.508        | mg/L  | 1    | 0.500           | <0.00536         | 102  | 75 - 125      |
| Total Barium   |   | 2,3,4   | 0.926        | mg/L  | 1    | 1.00            | <0.000336        | 93   | 75 - 125      |
| Total Cadmium  |   | 2,3,4,6 | 0.251        | mg/L  | 1    | 0.250           | <0.000423        | 100  | 75 - 125      |
| Total Chromium |   | 2,3,4,6 | 0.0980       | mg/L  | 1    | 0.100           | <0.000394        | 98   | 75 - 125      |
| Total Lead     |   | 2,3,4,6 | 0.454        | mg/L  | 1    | 0.500           | <0.00276         | 91   | 75 - 125      |
| Total Selenium |   | 2,3,4,6 | 0.474        | mg/L  | 1    | 0.500           | <0.00150         | 95   | 75 - 125      |

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

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| Param          | F | C       | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Silver   |   | 2,3,4,6 | 0.115         | mg/L  | 1    | 0.125           | <0.000513        | 92   | 75 - 125      | 4   | 20           |
| Total Arsenic  |   | 2,3,4,6 | 0.494         | mg/L  | 1    | 0.500           | <0.00536         | 99   | 75 - 125      | 3   | 20           |
| Total Barium   |   | 2,3,4   | 0.914         | mg/L  | 1    | 1.00            | <0.000336        | 91   | 75 - 125      | 1   | 20           |
| Total Cadmium  |   | 2,3,4,6 | 0.250         | mg/L  | 1    | 0.250           | <0.000423        | 100  | 75 - 125      | 0   | 20           |
| Total Chromium |   | 2,3,4,6 | 0.0990        | mg/L  | 1    | 0.100           | <0.000394        | 99   | 75 - 125      | 1   | 20           |
| Total Lead     |   | 2,3,4,6 | 0.455         | mg/L  | 1    | 0.500           | <0.00276         | 91   | 75 - 125      | 0   | 20           |
| Total Selenium |   | 2,3,4,6 | 0.464         | mg/L  | 1    | 0.500           | <0.00150         | 93   | 75 - 125      | 2   | 20           |

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

## Calibration Standards

### Standard (CCV-1)

QC Batch: 125972

Date Analyzed: 2015-10-30

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.0969                 | 97                          | 80 - 120                      | 2015-10-30       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.111                  | 111                         | 80 - 120                      | 2015-10-30       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.116                  | 116                         | 80 - 120                      | 2015-10-30       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.342                  | 114                         | 80 - 120                      | 2015-10-30       |

### Standard (CCV-2)

QC Batch: 125972

Date Analyzed: 2015-10-30

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.0953                 | 95                          | 80 - 120                      | 2015-10-30       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.110                  | 110                         | 80 - 120                      | 2015-10-30       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.114                  | 114                         | 80 - 120                      | 2015-10-30       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.334                  | 111                         | 80 - 120                      | 2015-10-30       |

### Standard (CCV-1)

QC Batch: 126102

Date Analyzed: 2015-11-05

Analyzed By: TP

| Param         | Flag | Cert      | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Mercury |      | 1,2,3,4,6 | mg/L  | 0.00500               | 0.00511                | 102                         | 90 - 110                      | 2015-11-05       |

### Standard (CCV-2)

QC Batch: 126102

Date Analyzed: 2015-11-05

Analyzed By: TP

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| Param         | Flag | Cert      | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Mercury |      | 1,2,3,4,6 | mg/L  | 0.00500               | 0.00514                | 103                         | 90 - 110                      | 2015-11-05       |

#### Standard (ICV-1)

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

| Param          | Flag | Cert    | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Aluminum |      | 2,3,4,6 | mg/L  | 1.00                  | 1.01                   | 101                         | 90 - 110                      | 2015-11-05       |

#### Standard (ICV-1)

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

| Param       | Flag | Cert    | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-------------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Boron |      | 2,3,4,6 | mg/L  | 1.00                  | 0.999                  | 100                         | 90 - 110                      | 2015-11-05       |

#### Standard (ICV-1)

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

| Param        | Flag | Cert | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Cobalt |      | 2,3  | mg/L  | 1.00                  | 0.969                  | 97                          | 90 - 110                      | 2015-11-05       |

#### Standard (ICV-1)

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

Report Date: November 23, 2015  
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| Param        | Flag | Cert | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Copper |      | 2,3  | mg/L  | 1.00                  | 1.02                   | 102                         | 90 - 110                      | 2015-11-05       |

#### Standard (ICV-1)

QC Batch: 126119                      Date Analyzed: 2015-11-05                      Analyzed By: RR

| Param      | Flag | Cert | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Iron |      | 2,3  | mg/L  | 1.00                  | 0.959                  | 96                          | 90 - 110                      | 2015-11-05       |

#### Standard (ICV-1)

QC Batch: 126119                      Date Analyzed: 2015-11-05                      Analyzed By: RR

| Param           | Flag | Cert    | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Manganese |      | 2,3,4,6 | mg/L  | 1.00                  | 1.01                   | 101                         | 90 - 110                      | 2015-11-05       |

#### Standard (ICV-1)

QC Batch: 126119                      Date Analyzed: 2015-11-05                      Analyzed By: RR

| Param            | Flag | Cert    | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Molybdenum |      | 2,3,4,6 | mg/L  | 1.00                  | 0.981                  | 98                          | 90 - 110                      | 2015-11-05       |

#### Standard (ICV-1)

QC Batch: 126119                      Date Analyzed: 2015-11-05                      Analyzed By: RR

Report Date: November 23, 2015  
TNM 9704

Work Order: 15102902  
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| Param        | Flag | Cert    | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Nickel |      | 2,3,4,6 | mg/L  | 1.00                  | 0.971                  | 97                          | 90 - 110                      | 2015-11-05       |

#### Standard (ICV-1)

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

| Param      | Flag | Cert    | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Zinc |      | 2,3,4,6 | mg/L  | 1.00                  | 0.966                  | 97                          | 90 - 110                      | 2015-11-05       |

#### Standard (ICV-1)

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

| Param          | Flag | Cert    | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Silver   |      | 2,3,4,6 | mg/L  | 0.125                 | 0.125                  | 100                         | 90 - 110                      | 2015-11-05       |
| Total Arsenic  |      | 2,3,4,6 | mg/L  | 1.00                  | 1.03                   | 103                         | 90 - 110                      | 2015-11-05       |
| Total Barium   |      | 2,3,4   | mg/L  | 1.00                  | 0.988                  | 99                          | 90 - 110                      | 2015-11-05       |
| Total Cadmium  |      | 2,3,4,6 | mg/L  | 1.00                  | 0.997                  | 100                         | 90 - 110                      | 2015-11-05       |
| Total Chromium |      | 2,3,4,6 | mg/L  | 1.00                  | 0.947                  | 95                          | 90 - 110                      | 2015-11-05       |
| Total Lead     |      | 2,3,4,6 | mg/L  | 1.00                  | 0.957                  | 96                          | 90 - 110                      | 2015-11-05       |
| Total Selenium |      | 2,3,4,6 | mg/L  | 1.00                  | 0.946                  | 95                          | 90 - 110                      | 2015-11-05       |

#### Standard (CCV-1)

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

| Param          | Flag | Cert    | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Aluminum |      | 2,3,4,6 | mg/L  | 1.00                  | 0.919                  | 92                          | 90 - 110                      | 2015-11-05       |

Report Date: November 23, 2015  
TNM 9704

Work Order: 15102902  
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**Standard (CCV-1)**

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

| Param       | Flag | Cert    | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-------------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Boron |      | 2,3,4,6 | mg/L  | 1.00                  | 0.906                  | 91                          | 90 - 110                      | 2015-11-05       |

**Standard (CCV-1)**

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

| Param        | Flag | Cert | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Cobalt |      | 2,3  | mg/L  | 1.00                  | 0.942                  | 94                          | 90 - 110                      | 2015-11-05       |

**Standard (CCV-1)**

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

| Param        | Flag | Cert | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Copper |      | 2,3  | mg/L  | 1.00                  | 1.02                   | 102                         | 90 - 110                      | 2015-11-05       |

**Standard (CCV-1)**

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

| Param      | Flag | Cert | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Iron |      | 2,3  | mg/L  | 1.00                  | 0.948                  | 95                          | 90 - 110                      | 2015-11-05       |

**Standard (CCV-1)**

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

Report Date: November 23, 2015  
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| Param           | Flag | Cert    | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Manganese |      | 2,3,4,6 | mg/L  | 1.00                  | 0.946                  | 95                          | 90 - 110                      | 2015-11-05       |

#### Standard (CCV-1)

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

| Param            | Flag | Cert    | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Molybdenum |      | 2,3,4,6 | mg/L  | 1.00                  | 0.975                  | 98                          | 90 - 110                      | 2015-11-05       |

#### Standard (CCV-1)

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

| Param        | Flag | Cert    | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Nickel |      | 2,3,4,6 | mg/L  | 1.00                  | 0.901                  | 90                          | 90 - 110                      | 2015-11-05       |

#### Standard (CCV-1)

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

| Param      | Flag | Cert    | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Zinc |      | 2,3,4,6 | mg/L  | 1.00                  | 0.997                  | 100                         | 90 - 110                      | 2015-11-05       |

#### Standard (CCV-1)

QC Batch: 126119

Date Analyzed: 2015-11-05

Analyzed By: RR

Report Date: November 23, 2015  
TNM 9704

Work Order: 15102902  
Townsend

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| Param          | Flag | Cert    | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Silver   |      | 2,3,4,6 | mg/L  | 0.125                 | 0.119                  | 95                          | 90 - 110                      | 2015-11-05       |
| Total Arsenic  |      | 2,3,4,6 | mg/L  | 1.00                  | 1.00                   | 100                         | 90 - 110                      | 2015-11-05       |
| Total Barium   |      | 2,3,4   | mg/L  | 1.00                  | 0.917                  | 92                          | 90 - 110                      | 2015-11-05       |
| Total Cadmium  |      | 2,3,4,6 | mg/L  | 1.00                  | 0.969                  | 97                          | 90 - 110                      | 2015-11-05       |
| Total Chromium |      | 2,3,4,6 | mg/L  | 1.00                  | 0.952                  | 95                          | 90 - 110                      | 2015-11-05       |
| Total Lead     |      | 2,3,4,6 | mg/L  | 1.00                  | 0.949                  | 95                          | 90 - 110                      | 2015-11-05       |
| Total Selenium |      | 2,3,4,6 | mg/L  | 1.00                  | 0.953                  | 95                          | 90 - 110                      | 2015-11-05       |

#### Standard (CCV-1)

QC Batch: 126505

Date Analyzed: 2015-11-20

Analyzed By: MN

| Param                  | Flag | Cert      | 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            |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.1                   | 100                         | 80 - 120                      | 2015-11-20       |
| 2-Methylnaphthalene    |      | 1,2,3,4,6 | mg/L  | 60.0                  | 59.3                   | 99                          | 80 - 120                      | 2015-11-20       |
| 1-Methylnaphthalene    |      | 1         | mg/L  | 60.0                  | 60.3                   | 100                         | 80 - 120                      | 2015-11-20       |
| Acenaphthylene         |      | 1,2,3,4,6 | mg/L  | 60.0                  | 63.3                   | 106                         | 80 - 120                      | 2015-11-20       |
| Acenaphthene           |      | 1,2,3,4,6 | mg/L  | 60.0                  | 62.2                   | 104                         | 80 - 120                      | 2015-11-20       |
| Dibenzofuran           |      | 1,2,3,4,6 | mg/L  | 60.0                  | 63.4                   | 106                         | 80 - 120                      | 2015-11-20       |
| Fluorene               |      | 1,2,3,4,6 | mg/L  | 60.0                  | 62.1                   | 104                         | 80 - 120                      | 2015-11-20       |
| Anthracene             |      | 1,2,3,4,6 | mg/L  | 60.0                  | 57.3                   | 96                          | 80 - 120                      | 2015-11-20       |
| Phenanthrene           |      | 1,2,3,4,6 | mg/L  | 60.0                  | 56.6                   | 94                          | 80 - 120                      | 2015-11-20       |
| Fluoranthene           |      | 1,2,3,4,6 | mg/L  | 60.0                  | 58.4                   | 97                          | 80 - 120                      | 2015-11-20       |
| Pyrene                 |      | 1,2,3,4,6 | mg/L  | 60.0                  | 66.2                   | 110                         | 80 - 120                      | 2015-11-20       |
| Benzo(a)anthracene     |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.1                   | 100                         | 80 - 120                      | 2015-11-20       |
| Chrysene               |      | 1,2,3,4,6 | mg/L  | 60.0                  | 63.2                   | 105                         | 80 - 120                      | 2015-11-20       |
| Benzo(b)fluoranthene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 56.9                   | 95                          | 80 - 120                      | 2015-11-20       |
| Benzo(k)fluoranthene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 56.4                   | 94                          | 80 - 120                      | 2015-11-20       |
| Benzo(a)pyrene         |      | 1,2,3,4,6 | mg/L  | 60.0                  | 56.7                   | 94                          | 80 - 120                      | 2015-11-20       |
| Indeno(1,2,3-cd)pyrene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 57.1                   | 95                          | 80 - 120                      | 2015-11-20       |
| Dibenzo(a,h)anthracene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 57.4                   | 96                          | 80 - 120                      | 2015-11-20       |
| Benzo(g,h,i)perylene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 57.7                   | 96                          | 80 - 120                      | 2015-11-20       |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |      |      | 59.1   | mg/L  | 1        | 60.0            | 98                  | -                 |
| 2-Fluorobiphenyl |      |      | 63.0   | mg/L  | 1        | 60.0            | 105                 | -                 |
| Terphenyl-d14    |      |      | 68.0   | mg/L  | 1        | 60.0            | 113                 | -                 |

## Appendix

### Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

### Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | L-A-B                | L2418                | Lubbock             |
| 2 | Kansas               | Kansas E-10317       | Lubbock             |
| 3 | LELAP                | LELAP-02003          | Lubbock             |
| 4 | NELAP                | T104704219-15-11     | Lubbock             |
| 5 | NELAP                | T104704392-14-8      | Midland             |
| 6 |                      | 2015-066             | Lubbock             |

### Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| MI1 | Split peak or shoulder peak                                                                                                                                                                                                         |
| MI2 | Instrument software did not integrate                                                                                                                                                                                               |
| MI3 | Instrument software misidentified the peak                                                                                                                                                                                          |
| MI4 | Instrument software integrated improperly                                                                                                                                                                                           |
| MI5 | Baseline correction                                                                                                                                                                                                                 |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |

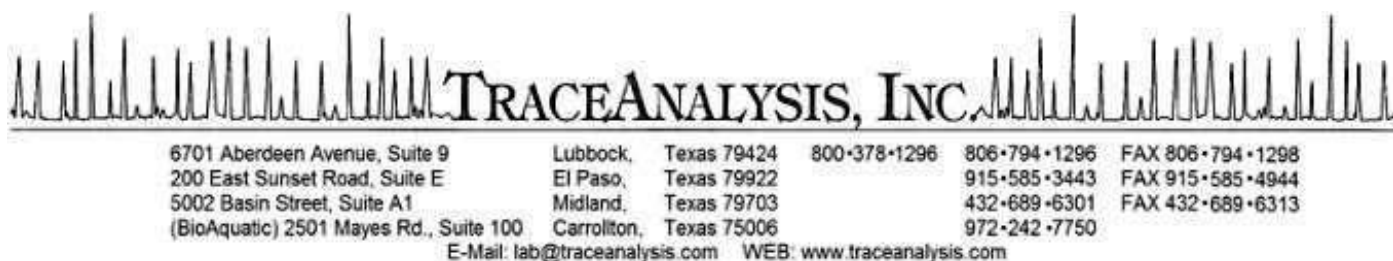
| F   | Description                                      |
|-----|--------------------------------------------------|
| Qsr | Surrogate recovery outside of laboratory limits. |
| U   | The analyte is not detected above the SDL        |

---

**Attachments**

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.





## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Curt Stanley  
TRC Solutions  
2057 Commerce  
Midland, Tx, 79703

Report Date: November 25, 2015

Work Order: 15112008



Project Location: Lovington, NM  
Project Name: Townsend  
Project Number: TNM 9704

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 |
|--------|-------------|--------|------------|------------|---------------|
| 408701 | Post        | water  | 2015-11-19 | 16:00      | 2015-11-20    |

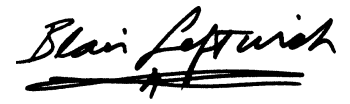
## Notes

- **Work Order 15112008:** Run PAH only if BTEX is detected.

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.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent horizontal line underneath.

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

# Report Contents

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## Case Narrative

Samples for project Townsend were received by TraceAnalysis, Inc. on 2015-11-20 and assigned to work order 15112008. Samples for work order 15112008 were received intact at a temperature of 8.2 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 | 107078        | 2015-11-19 at 15:00 | 126528      | 2015-11-21 at 08:19 |
| PAH  | S 8270D | 107171        | 2015-11-24 at 15:00 | 126646      | 2015-11-25 at 14:32 |

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 15112008 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: 408701 - Post

|             |         |                     |            |              |         |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Midland | Analytical Method:  | S 8021B    | Prep Method: | S 5030B |
| Analysis:   | BTEX    | Date Analyzed:      | 2015-11-21 | Analyzed By: | AK      |
| QC Batch:   | 126528  | Sample Preparation: | 2015-11-19 | Prepared By: | AK      |
| Prep Batch: | 107078  |                     |            |              |         |

| Parameter    | Flag | Cert | RL<br>Result | Units | Dilution | RL      |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene      | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene       | U    | 5    | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0753 | mg/L  | 1        | 0.100           | 75                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0778 | mg/L  | 1        | 0.100           | 78                  | 70 - 130           |

## Sample: 408701 - Post

|             |         |                     |            |              |         |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method:  | S 8270D    | Prep Method: | S 3510C |
| Analysis:   | PAH     | Date Analyzed:      | 2015-11-25 | Analyzed By: | MN      |
| QC Batch:   | 126646  | Sample Preparation: | 2015-11-24 | Prepared By: | MN      |
| Prep Batch: | 107171  |                     |            |              |         |

| Parameter           | Flag | Cert      | RL<br>Result | Units | Dilution | RL       |
|---------------------|------|-----------|--------------|-------|----------|----------|
| Naphthalene         | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| 2-Methylnaphthalene | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| 1-Methylnaphthalene | U    | 1         | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Acenaphthylene      | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Acenaphthene        | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Dibenzofuran        | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Fluorene            | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Anthracene          | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Phenanthrene        | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Fluoranthene        | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Pyrene              | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Benzo(a)anthracene  | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Chrysene            | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |

*continued ...*

*sample 408701 continued ...*

| Parameter              | Flag | Cert      | RL<br>Result | Units | Dilution | RL       |
|------------------------|------|-----------|--------------|-------|----------|----------|
| Benzo(b)fluoranthene   | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Benzo(k)fluoranthene   | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Benzo(a)pyrene         | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Indeno(1,2,3-cd)pyrene | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Dibenzo(a,h)anthracene | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |
| Benzo(g,h,i)perylene   | U    | 1,2,3,4,6 | <0.000195    | mg/L  | 0.976    | 0.000200 |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      |      | 0.0300 | mg/L  | 0.976    | 0.0800          | 38                  | 10 - 120           |
| 2-Fluorobiphenyl |      |      | 0.0343 | mg/L  | 0.976    | 0.0800          | 43                  | 35.9 - 120         |
| Terphenyl-d14    |      |      | 0.0603 | mg/L  | 0.976    | 0.0800          | 75                  | 23.2 - 120         |

## Method Blanks

### Method Blank (1) QC Batch: 126528

QC Batch: 126528 Date Analyzed: 2015-11-21 Analyzed By: AK  
Prep Batch: 107078 QC Preparation: 2015-11-19 Prepared By: AK

| Parameter    | Flag | Cert | MDL<br>Result | Units | RL    |
|--------------|------|------|---------------|-------|-------|
| Benzene      |      | 5    | <0.000299     | mg/L  | 0.001 |
| Toluene      |      | 5    | <0.000247     | mg/L  | 0.001 |
| Ethylbenzene |      | 5    | <0.000423     | mg/L  | 0.001 |
| Xylene       |      | 5    | <0.000552     | mg/L  | 0.001 |

| Surrogate                    | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      |      | 0.0820 | mg/L  | 1        | 0.100           | 82                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      |      | 0.0867 | mg/L  | 1        | 0.100           | 87                  | 70 - 130           |

### Method Blank (1) QC Batch: 126646

QC Batch: 126646 Date Analyzed: 2015-11-25 Analyzed By: MN  
Prep Batch: 107171 QC Preparation: 2015-11-24 Prepared By: MN

| Parameter            | Flag | Cert      | MDL<br>Result | Units | RL     |
|----------------------|------|-----------|---------------|-------|--------|
| Naphthalene          |      | 1,2,3,4,6 | <0.0000656    | mg/L  | 0.0002 |
| 2-Methylnaphthalene  |      | 1,2,3,4,6 | <0.0000516    | mg/L  | 0.0002 |
| 1-Methylnaphthalene  |      | 1         | <0.0000663    | mg/L  | 0.0002 |
| Acenaphthylene       |      | 1,2,3,4,6 | <0.0000581    | mg/L  | 0.0002 |
| Acenaphthene         |      | 1,2,3,4,6 | <0.0000332    | mg/L  | 0.0002 |
| Dibenzofuran         |      | 1,2,3,4,6 | <0.0000607    | mg/L  | 0.0002 |
| Fluorene             |      | 1,2,3,4,6 | <0.0000788    | mg/L  | 0.0002 |
| Anthracene           |      | 1,2,3,4,6 | <0.0000321    | mg/L  | 0.0002 |
| Phenanthrene         |      | 1,2,3,4,6 | <0.0000516    | mg/L  | 0.0002 |
| Fluoranthene         |      | 1,2,3,4,6 | <0.0000638    | mg/L  | 0.0002 |
| Pyrene               |      | 1,2,3,4,6 | <0.0000415    | mg/L  | 0.0002 |
| Benzo(a)anthracene   |      | 1,2,3,4,6 | <0.0000721    | mg/L  | 0.0002 |
| Chrysene             |      | 1,2,3,4,6 | <0.0000811    | mg/L  | 0.0002 |
| Benzo(b)fluoranthene |      | 1,2,3,4,6 | <0.0000710    | mg/L  | 0.0002 |
| Benzo(k)fluoranthene |      | 1,2,3,4,6 | <0.0000561    | mg/L  | 0.0002 |
| Benzo(a)pyrene       |      | 1,2,3,4,6 | <0.0000418    | mg/L  | 0.0002 |

*continued ...*

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*method blank continued ...*

| Parameter              | Flag | Cert      | MDL<br>Result | Units | RL     |
|------------------------|------|-----------|---------------|-------|--------|
| Indeno(1,2,3-cd)pyrene |      | 1,2,3,4,6 | <0.0000537    | mg/L  | 0.0002 |
| Dibenzo(a,h)anthracene |      | 1,2,3,4,6 | <0.0000562    | mg/L  | 0.0002 |
| Benzo(g,h,i)perylene   |      | 1,2,3,4,6 | <0.0000519    | mg/L  | 0.0002 |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      |      | 0.0458 | mg/L  | 1        | 0.0800          | 57                  | 10 - 120           |
| 2-Fluorobiphenyl |      |      | 0.0504 | mg/L  | 1        | 0.0800          | 63                  | 35.9 - 120         |
| Terphenyl-d14    |      |      | 0.0554 | mg/L  | 1        | 0.0800          | 69                  | 23.2 - 120         |

## Laboratory Control Spikes

### Laboratory Control Spike (LCS-1)

QC Batch: 126528  
Prep Batch: 107078

Date Analyzed: 2015-11-21  
QC Preparation: 2015-11-19

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.0881        | mg/L  | 1    | 0.100           | <0.000299        | 88   | 70 - 130      |
| Toluene      |   | 5 | 0.101         | mg/L  | 1    | 0.100           | <0.000247        | 101  | 70 - 130      |
| Ethylbenzene |   | 5 | 0.110         | mg/L  | 1    | 0.100           | <0.000423        | 110  | 70 - 130      |
| Xylene       |   | 5 | 0.318         | mg/L  | 1    | 0.300           | <0.000552        | 106  | 70 - 130      |

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

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.0865        | mg/L  | 1    | 0.100           | <0.000299        | 86   | 70 - 130      | 2   | 20           |
| Toluene      |   | 5 | 0.103         | mg/L  | 1    | 0.100           | <0.000247        | 103  | 70 - 130      | 2   | 20           |
| Ethylbenzene |   | 5 | 0.111         | mg/L  | 1    | 0.100           | <0.000423        | 111  | 70 - 130      | 1   | 20           |
| Xylene       |   | 5 | 0.322         | mg/L  | 1    | 0.300           | <0.000552        | 107  | 70 - 130      | 1   | 20           |

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

| Surrogate                    | LCS<br>Result | LCS<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCS<br>Rec. | Rec.<br>Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT)       | 0.0805        | 0.0824        | mg/L  | 1    | 0.100           | 80          | 82          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0891        | 0.0893        | mg/L  | 1    | 0.100           | 89          | 89          | 70 - 130      |

### Laboratory Control Spike (LCS-1)

QC Batch: 126646  
Prep Batch: 107171

Date Analyzed: 2015-11-25  
QC Preparation: 2015-11-24

Analyzed By: MN  
Prepared By: MN

| Param               | F | C         | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|---------------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Naphthalene         |   | 1,2,3,4,6 | 0.0585        | mg/L  | 1    | 0.0800          | <0.0000656       | 73   | 49.7 - 120    |
| 2-Methylnaphthalene |   | 1,2,3,4,6 | 0.0572        | mg/L  | 1    | 0.0800          | <0.0000516       | 72   | 44.6 - 120    |
| 1-Methylnaphthalene |   | 1         | 0.0581        | mg/L  | 1    | 0.0800          | <0.0000663       | 73   | 10 - 189      |
| Acenaphthylene      |   | 1,2,3,4,6 | 0.0610        | mg/L  | 1    | 0.0800          | <0.0000581       | 76   | 40.9 - 120    |
| Acenaphthene        |   | 1,2,3,4,6 | 0.0599        | mg/L  | 1    | 0.0800          | <0.0000332       | 75   | 49.9 - 120    |

*continued ...*

control spikes continued ...

| Param                  | F | C         | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Dibenzofuran           |   | 1,2,3,4,6 | 0.0604        | mg/L  | 1    | 0.0800          | <0.0000607       | 76   | 34 - 120      |
| Fluorene               |   | 1,2,3,4,6 | 0.0590        | mg/L  | 1    | 0.0800          | <0.0000788       | 74   | 49.7 - 120    |
| Anthracene             |   | 1,2,3,4,6 | 0.0582        | mg/L  | 1    | 0.0800          | <0.0000321       | 73   | 11.4 - 155    |
| Phenanthrene           |   | 1,2,3,4,6 | 0.0568        | mg/L  | 1    | 0.0800          | <0.0000516       | 71   | 41 - 120      |
| Fluoranthene           |   | 1,2,3,4,6 | 0.0570        | mg/L  | 1    | 0.0800          | <0.0000638       | 71   | 35.7 - 120    |
| Pyrene                 |   | 1,2,3,4,6 | 0.0578        | mg/L  | 1    | 0.0800          | <0.0000415       | 72   | 19.5 - 139    |
| Benzo(a)anthracene     |   | 1,2,3,4,6 | 0.0536        | mg/L  | 1    | 0.0800          | <0.0000721       | 67   | 53.4 - 120    |
| Chrysene               |   | 1,2,3,4,6 | 0.116         | mg/L  | 1    | 0.0800          | <0.0000811       | 145  | 10 - 170      |
| Benzo(b)fluoranthene   |   | 1,2,3,4,6 | 0.0534        | mg/L  | 1    | 0.0800          | <0.0000710       | 67   | 29.2 - 120    |
| Benzo(k)fluoranthene   |   | 1,2,3,4,6 | 0.0659        | mg/L  | 1    | 0.0800          | <0.0000561       | 82   | 23.4 - 120    |
| Benzo(a)pyrene         |   | 1,2,3,4,6 | 0.0607        | mg/L  | 1    | 0.0800          | <0.0000418       | 76   | 23.4 - 120    |
| Indeno(1,2,3-cd)pyrene |   | 1,2,3,4,6 | 0.0655        | mg/L  | 1    | 0.0800          | <0.0000537       | 82   | 10 - 129      |
| Dibenzo(a,h)anthracene |   | 1,2,3,4,6 | 0.104         | mg/L  | 1    | 0.0800          | <0.0000562       | 130  | 10 - 174      |
| Benzo(g,h,i)perylene   |   | 1,2,3,4,6 | 0.0725        | mg/L  | 1    | 0.0800          | <0.0000519       | 91   | 30.6 - 120    |

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

| Param                  | F | C         | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|-----------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Naphthalene            |   | 1,2,3,4,6 | 0.0624         | mg/L  | 1    | 0.0800          | <0.0000656       | 78   | 49.7 - 120    | 6   | 20           |
| 2-Methylnaphthalene    |   | 1,2,3,4,6 | 0.0672         | mg/L  | 1    | 0.0800          | <0.0000516       | 84   | 44.6 - 120    | 16  | 20           |
| 1-Methylnaphthalene    |   | 1         | 0.0692         | mg/L  | 1    | 0.0800          | <0.0000663       | 86   | 10 - 189      | 17  | 20           |
| Acenaphthylene         |   | 1,2,3,4,6 | 0.0658         | mg/L  | 1    | 0.0800          | <0.0000581       | 82   | 40.9 - 120    | 8   | 20           |
| Acenaphthene           |   | 1,2,3,4,6 | 0.0652         | mg/L  | 1    | 0.0800          | <0.0000332       | 82   | 49.9 - 120    | 8   | 20           |
| Dibenzofuran           |   | 1,2,3,4,6 | 0.0668         | mg/L  | 1    | 0.0800          | <0.0000607       | 84   | 34 - 120      | 10  | 20           |
| Fluorene               |   | 1,2,3,4,6 | 0.0617         | mg/L  | 1    | 0.0800          | <0.0000788       | 77   | 49.7 - 120    | 4   | 20           |
| Anthracene             |   | 1,2,3,4,6 | 0.0638         | mg/L  | 1    | 0.0800          | <0.0000321       | 80   | 11.4 - 155    | 9   | 20           |
| Phenanthrene           |   | 1,2,3,4,6 | 0.0624         | mg/L  | 1    | 0.0800          | <0.0000516       | 78   | 41 - 120      | 9   | 20           |
| Fluoranthene           |   | 1,2,3,4,6 | 0.0621         | mg/L  | 1    | 0.0800          | <0.0000638       | 78   | 35.7 - 120    | 9   | 20           |
| Pyrene                 |   | 1,2,3,4,6 | 0.0622         | mg/L  | 1    | 0.0800          | <0.0000415       | 78   | 19.5 - 139    | 7   | 20           |
| Benzo(a)anthracene     |   | 1,2,3,4,6 | 0.0586         | mg/L  | 1    | 0.0800          | <0.0000721       | 73   | 53.4 - 120    | 9   | 20           |
| Chrysene               |   | 1,2,3,4,6 | 0.129          | mg/L  | 1    | 0.0800          | <0.0000811       | 161  | 10 - 170      | 11  | 20           |
| Benzo(b)fluoranthene   |   | 1,2,3,4,6 | 0.0593         | mg/L  | 1    | 0.0800          | <0.0000710       | 74   | 29.2 - 120    | 10  | 20           |
| Benzo(k)fluoranthene   |   | 1,2,3,4,6 | 0.0735         | mg/L  | 1    | 0.0800          | <0.0000561       | 92   | 23.4 - 120    | 11  | 20           |
| Benzo(a)pyrene         |   | 1,2,3,4,6 | 0.0680         | mg/L  | 1    | 0.0800          | <0.0000418       | 85   | 23.4 - 120    | 11  | 20           |
| Indeno(1,2,3-cd)pyrene |   | 1,2,3,4,6 | 0.0724         | mg/L  | 1    | 0.0800          | <0.0000537       | 90   | 10 - 129      | 10  | 20           |
| Dibenzo(a,h)anthracene |   | 1,2,3,4,6 | 0.117          | mg/L  | 1    | 0.0800          | <0.0000562       | 146  | 10 - 174      | 12  | 20           |
| Benzo(g,h,i)perylene   |   | 1,2,3,4,6 | 0.0814         | mg/L  | 1    | 0.0800          | <0.0000519       | 102  | 30.6 - 120    | 12  | 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  | 0.0639        | 0.0682         | mg/L  | 1    | 0.0800          | 80          | 85           | 10 - 120      |
| 2-Fluorobiphenyl | 0.0673        | 0.0744         | mg/L  | 1    | 0.0800          | 84          | 93           | 35.9 - 120    |
| Terphenyl-d14    | 0.0679        | 0.0739         | mg/L  | 1    | 0.0800          | 85          | 92           | 23.2 - 120    |

## Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 408528

QC Batch: 126528  
Prep Batch: 107078

Date Analyzed: 2015-11-21  
QC Preparation: 2015-11-19

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.0837       | mg/L  | 1    | 0.100           | <0.000299        | 84   | 70 - 130      |
| Toluene      |   | 5 | 0.0883       | mg/L  | 1    | 0.100           | <0.000247        | 88   | 70 - 130      |
| Ethylbenzene |   | 5 | 0.0900       | mg/L  | 1    | 0.100           | <0.000423        | 90   | 70 - 130      |
| Xylene       |   | 5 | 0.264        | mg/L  | 1    | 0.300           | <0.000552        | 88   | 70 - 130      |

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

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.0802        | mg/L  | 1    | 0.100           | <0.000299        | 80   | 70 - 130      | 4   | 20           |
| Toluene      |   | 5 | 0.0834        | mg/L  | 1    | 0.100           | <0.000247        | 83   | 70 - 130      | 6   | 20           |
| Ethylbenzene |   | 5 | 0.0866        | mg/L  | 1    | 0.100           | <0.000423        | 87   | 70 - 130      | 4   | 20           |
| Xylene       |   | 5 | 0.256         | mg/L  | 1    | 0.300           | <0.000552        | 85   | 70 - 130      | 3   | 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)       | 0.0704       | 0.0852        | mg/L  | 1    | 0.1             | 70         | 85          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) | 0.0821       | 0.0919        | mg/L  | 1    | 0.1             | 82         | 92          | 70 - 130      |

## Calibration Standards

### Standard (CCV-2)

QC Batch: 126528

Date Analyzed: 2015-11-21

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.0842                 | 84                          | 80 - 120                      | 2015-11-21       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.0991                 | 99                          | 80 - 120                      | 2015-11-21       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.107                  | 107                         | 80 - 120                      | 2015-11-21       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.315                  | 105                         | 80 - 120                      | 2015-11-21       |

### Standard (CCV-3)

QC Batch: 126528

Date Analyzed: 2015-11-21

Analyzed By: AK

| Param        | Flag | Cert | 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      |      | 5    | mg/L  | 0.100                 | 0.0982                 | 98                          | 80 - 120                      | 2015-11-21       |
| Toluene      |      | 5    | mg/L  | 0.100                 | 0.106                  | 106                         | 80 - 120                      | 2015-11-21       |
| Ethylbenzene |      | 5    | mg/L  | 0.100                 | 0.112                  | 112                         | 80 - 120                      | 2015-11-21       |
| Xylene       |      | 5    | mg/L  | 0.300                 | 0.328                  | 109                         | 80 - 120                      | 2015-11-21       |

### Standard (CCV-1)

QC Batch: 126646

Date Analyzed: 2015-11-25

Analyzed By: MN

| Param               | Flag | Cert      | 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         |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.1                   | 100                         | 80 - 120                      | 2015-11-25       |
| 2-Methylnaphthalene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 56.5                   | 94                          | 80 - 120                      | 2015-11-25       |
| 1-Methylnaphthalene |      | 1         | mg/L  | 60.0                  | 56.8                   | 95                          | 80 - 120                      | 2015-11-25       |
| Acenaphthylene      |      | 1,2,3,4,6 | mg/L  | 60.0                  | 63.6                   | 106                         | 80 - 120                      | 2015-11-25       |
| Acenaphthene        |      | 1,2,3,4,6 | mg/L  | 60.0                  | 62.2                   | 104                         | 80 - 120                      | 2015-11-25       |
| Dibenzofuran        |      | 1,2,3,4,6 | mg/L  | 60.0                  | 59.8                   | 100                         | 80 - 120                      | 2015-11-25       |
| Fluorene            |      | 1,2,3,4,6 | mg/L  | 60.0                  | 59.7                   | 100                         | 80 - 120                      | 2015-11-25       |

*continued ...*

*standard continued ...*

| Param                  | Flag | Cert      | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Anthracene             |      | 1,2,3,4,6 | mg/L  | 60.0                  | 58.4                   | 97                          | 80 - 120                      | 2015-11-25       |
| Phenanthrene           |      | 1,2,3,4,6 | mg/L  | 60.0                  | 58.1                   | 97                          | 80 - 120                      | 2015-11-25       |
| Fluoranthene           |      | 1,2,3,4,6 | mg/L  | 60.0                  | 71.0                   | 118                         | 80 - 120                      | 2015-11-25       |
| Pyrene                 |      | 1,2,3,4,6 | mg/L  | 60.0                  | 65.1                   | 108                         | 80 - 120                      | 2015-11-25       |
| Benzo(a)anthracene     |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.1                   | 100                         | 80 - 120                      | 2015-11-25       |
| Chrysene               |      | 1,2,3,4,6 | mg/L  | 60.0                  | 63.2                   | 105                         | 80 - 120                      | 2015-11-25       |
| Benzo(b)fluoranthene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 55.6                   | 93                          | 80 - 120                      | 2015-11-25       |
| Benzo(k)fluoranthene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 60.0                   | 100                         | 80 - 120                      | 2015-11-25       |
| Benzo(a)pyrene         |      | 1,2,3,4,6 | mg/L  | 60.0                  | 56.7                   | 94                          | 80 - 120                      | 2015-11-25       |
| Indeno(1,2,3-cd)pyrene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 56.3                   | 94                          | 80 - 120                      | 2015-11-25       |
| Dibenzo(a,h)anthracene |      | 1,2,3,4,6 | mg/L  | 60.0                  | 56.5                   | 94                          | 80 - 120                      | 2015-11-25       |
| Benzo(g,h,i)perylene   |      | 1,2,3,4,6 | mg/L  | 60.0                  | 57.2                   | 95                          | 80 - 120                      | 2015-11-25       |

| Surrogate        | Flag | Cert | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |      |      | 58.6   | mg/L  | 1        | 60.0            | 98                  | -                 |
| 2-Fluorobiphenyl |      |      | 62.1   | mg/L  | 1        | 60.0            | 104                 | -                 |
| Terphenyl-d14    |      |      | 66.4   | mg/L  | 1        | 60.0            | 111                 | -                 |

## Appendix

### Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

### Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | L-A-B                | L2418                | Lubbock             |
| 2 | Kansas               | Kansas E-10317       | Lubbock             |
| 3 | LELAP                | LELAP-02003          | Lubbock             |
| 4 | NELAP                | T104704219-15-11     | Lubbock             |
| 5 | NELAP                | T104704392-14-8      | Midland             |
| 6 |                      | 2015-066             | Lubbock             |

### Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| MI1 | Split peak or shoulder peak                                                                                                                                                                                                         |
| MI2 | Instrument software did not integrate                                                                                                                                                                                               |
| MI3 | Instrument software misidentified the peak                                                                                                                                                                                          |
| MI4 | Instrument software integrated improperly                                                                                                                                                                                           |
| MI5 | Baseline correction                                                                                                                                                                                                                 |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |

| F   | Description                                      |
|-----|--------------------------------------------------|
| Qsr | Surrogate recovery outside of laboratory limits. |
| U   | The analyte is not detected above the SDL        |

**Attachments**

The scanned attachments will follow this page.  
Please note, each attachment may consist of more than one page.

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

Brandon & Clark  
3403 Industrial Blvd.  
**Hobbs, NM 88240**  
Tel (575) 392-7561  
Fax (575) 392-4508

|                 |                                                     |          |                            |
|-----------------|-----------------------------------------------------|----------|----------------------------|
| Company Name:   | TRC Solutions                                       | Phone #: | 432 520 7720               |
| Address:        | (Street, City, Zip)<br>2057 Commerce, Midland 79703 | Fax #:   | 432 520 7701               |
| Contact Person: | Curt Stanley                                        | E-mail:  | CDStanley@trcsolutions.com |

|                                     |               |                    |                    |
|-------------------------------------|---------------|--------------------|--------------------|
| Project Location (including state): | Lexington, NM | Sampler Signature: | <i>[Signature]</i> |
|-------------------------------------|---------------|--------------------|--------------------|

[illegible]

|                                                                                                 |            |
|-------------------------------------------------------------------------------------------------|------------|
| Total Metals Ag As Ba Cd Cr Pb Se Hg                                                            | 6010/200.7 |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg                                                             | 6010/200.7 |
| TCLP Volatiles                                                                                  |            |
| TCLP Semi Volatiles                                                                             |            |
| TCLP Pesticides                                                                                 |            |
| RCI                                                                                             |            |
| GC/MS Vol. 8260 / 624                                                                           |            |
| GC/MS Semi. Vol. 8270 / 625                                                                     |            |
| PCBs 8082 / 608                                                                                 |            |
| Pesticides 8081 / 608                                                                           |            |
| BOD, TSS, pH                                                                                    |            |
| Moisture Content                                                                                |            |
| Cl, F, SO <sub>4</sub> , NO <sub>3</sub> -N, NO <sub>2</sub> -N, PO <sub>4</sub> -P, Alkalinity |            |
| Na, Ca, Mg, K, TDS, EC                                                                          |            |
| Turn Around Time if different from standard                                                     |            |

|                    |             |          |       |                    |          |          |       |                    |
|--------------------|-------------|----------|-------|--------------------|----------|----------|-------|--------------------|
| Relinquished by:   | Company:    | Date:    | Time: | Received by:       | Company: | Date:    | Time: | INST<br>OBS<br>COR |
| Carlynn Fols       | KLH/Johnson | 11/20/15 | 9:00  | <i>[Signature]</i> | TH       | 11-20-15 | 9:00  |                    |
| Relinquished by:   | Company:    | Date:    | Time: | Received by:       | Company: | Date:    | Time: | INST<br>OBS<br>COR |
| <i>[Signature]</i> | TH          | 11-20-15 | 11:12 | <i>[Signature]</i> |          |          |       |                    |
| Relinquished by:   | Company:    | Date:    | Time: | Received by:       | Company: | Date:    | Time: | INST<br>OBS<br>COR |
| <i>[Signature]</i> |             |          |       | <i>[Signature]</i> | TH       | 11/20/15 | 8:00  |                    |

Carrier #



6701 Aberdeen Avenue, Suite 9  
200 East Sunset Road, Suite E  
5002 Basin Street, Suite A1  
(BioAquatic) 2501 Mayes Rd., Suite 100

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800-378-1296 806-794-1296 FAX 806-794-1298  
915-585-3443 FAX 915-585-4944  
432-689-6301 FAX 432-689-6313  
972-242-7750

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

(Corrected Report)

Curt Stanley  
TRC Solutions  
2057 Commerce  
Midland, Tx, 79703

Report Date: December 14, 2015

Work Order: 15112401



Project Location: Lovington, NM  
Project Name: Townsend  
Project Number: TNM 9704

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 |
|--------|-------------|--------|------------|------------|---------------|
| 408938 | MW 10       | water  | 2015-11-23 | 10:40      | 2015-11-24    |
| 408939 | MW 12       | water  | 2015-11-23 | 11:05      | 2015-11-24    |
| 408940 | MW 7        | water  | 2015-11-23 | 11:50      | 2015-11-24    |
| 408941 | MW 16       | water  | 2015-11-23 | 12:05      | 2015-11-24    |
| 408942 | MW 11       | water  | 2015-11-23 | 12:25      | 2015-11-24    |
| 408943 | MW 13       | water  | 2015-11-23 | 12:45      | 2015-11-24    |
| 408944 | MW 18       | water  | 2015-11-23 | 13:05      | 2015-11-24    |
| 408945 | MW 15       | water  | 2015-11-23 | 13:35      | 2015-11-24    |
| 408946 | MW 14       | water  | 2015-11-23 | 13:55      | 2015-11-24    |
| 408947 | MW 6        | water  | 2015-11-23 | 14:40      | 2015-11-24    |

### Report Corrections (Work Order 15112401)

- Corrected description on sample 408941.

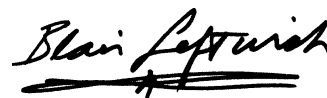
These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a horizontal line underneath.

---

Dr. Blair Leftwich, Director  
James Taylor, Assistant Director  
Brian Pellam, Operations Manager

# Report Contents

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## Case Narrative

Samples for project Townsend were received by TraceAnalysis, Inc. on 2015-11-24 and assigned to work order 15112401. Samples for work order 15112401 were received intact 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 | 107234        | 2015-12-01 at 14:30 | 126744      | 2015-12-03 at 07:13 |
| PAH  | S 8270D | 107383        | 2015-11-27 at 15:00 | 126886      | 2015-12-10 at 11:12 |

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 15112401 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: 408938 - MW 10

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 126744  
Prep Batch: 107234

Analytical Method: S 8021B  
Date Analyzed: 2015-12-03  
Sample Preparation: 2015-12-01

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

| Parameter    | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL      | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|--------------|---|---|------------------------|------------------------|---------------------------|-------|----------|----------|---------------------|---------------------|
| Benzene      | U | 5 | <0.000299              | <0.00100               | <0.000299                 | mg/L  | 1        | 0.000299 | 0.001               | 0.000299            |
| Toluene      | U | 5 | <0.000247              | <0.00100               | <0.000247                 | mg/L  | 1        | 0.000247 | 0.001               | 0.000247            |
| Ethylbenzene | U | 5 | <0.000423              | <0.00100               | <0.000423                 | mg/L  | 1        | 0.000423 | 0.001               | 0.000423            |
| Xylene       | U | 5 | <0.000552              | <0.00100               | <0.000552                 | mg/L  | 1        | 0.000552 | 0.001               | 0.000552            |

| Surrogate                    | F | C | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|---|---|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |   |   | 0.101  | mg/L  | 1        | 0.100           | 101                 | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |   |   | 0.0915 | mg/L  | 1        | 0.100           | 92                  | 70 - 130           |

## Sample: 408939 - MW 12

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 126744  
Prep Batch: 107234

Analytical Method: S 8021B  
Date Analyzed: 2015-12-03  
Sample Preparation: 2015-12-01

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

| Parameter    | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL      | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|--------------|---|---|------------------------|------------------------|---------------------------|-------|----------|----------|---------------------|---------------------|
| Benzene      | U | 5 | <0.000299              | <0.00100               | <0.000299                 | mg/L  | 1        | 0.000299 | 0.001               | 0.000299            |
| Toluene      | U | 5 | <0.000247              | <0.00100               | <0.000247                 | mg/L  | 1        | 0.000247 | 0.001               | 0.000247            |
| Ethylbenzene | U | 5 | <0.000423              | <0.00100               | <0.000423                 | mg/L  | 1        | 0.000423 | 0.001               | 0.000423            |
| Xylene       | U | 5 | <0.000552              | <0.00100               | <0.000552                 | mg/L  | 1        | 0.000552 | 0.001               | 0.000552            |

| Surrogate                    | F | C | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|---|---|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |   |   | 0.0951 | mg/L  | 1        | 0.100           | 95                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |   |   | 0.0941 | mg/L  | 1        | 0.100           | 94                  | 70 - 130           |

Report Date: December 14, 2015  
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**Sample: 408940 - MW 7**

Laboratory: Midland

Analysis: BTEX

QC Batch: 126744

Prep Batch: 107234

Analytical Method: S 8021B

Date Analyzed: 2015-12-03

Sample Preparation: 2015-12-01

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

| Parameter    | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL      | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|--------------|---|---|------------------------|------------------------|---------------------------|-------|----------|----------|---------------------|---------------------|
| Benzene      | u | 5 | <0.000299              | <0.00100               | <0.000299                 | mg/L  | 1        | 0.000299 | 0.001               | 0.000299            |
| Toluene      | u | 5 | <0.000247              | <0.00100               | <0.000247                 | mg/L  | 1        | 0.000247 | 0.001               | 0.000247            |
| Ethylbenzene | u | 5 | <0.000423              | <0.00100               | <0.000423                 | mg/L  | 1        | 0.000423 | 0.001               | 0.000423            |
| Xylene       | u | 5 | <0.000552              | <0.00100               | <0.000552                 | mg/L  | 1        | 0.000552 | 0.001               | 0.000552            |

| Surrogate                    | F | C | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|---|---|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |   |   | 0.0880 | mg/L  | 1        | 0.100           | 88                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |   |   | 0.0885 | mg/L  | 1        | 0.100           | 88                  | 70 - 130           |

**Sample: 408941 - MW 16**

Laboratory: Midland

Analysis: BTEX

QC Batch: 126744

Prep Batch: 107234

Analytical Method: S 8021B

Date Analyzed: 2015-12-03

Sample Preparation: 2015-12-01

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

| Parameter    | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL      | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|--------------|---|---|------------------------|------------------------|---------------------------|-------|----------|----------|---------------------|---------------------|
| Benzene      | u | 5 | <0.000299              | <0.00100               | <0.000299                 | mg/L  | 1        | 0.000299 | 0.001               | 0.000299            |
| Toluene      | u | 5 | <0.000247              | <0.00100               | <0.000247                 | mg/L  | 1        | 0.000247 | 0.001               | 0.000247            |
| Ethylbenzene | u | 5 | <0.000423              | <0.00100               | <0.000423                 | mg/L  | 1        | 0.000423 | 0.001               | 0.000423            |
| Xylene       | u | 5 | <0.000552              | <0.00100               | <0.000552                 | mg/L  | 1        | 0.000552 | 0.001               | 0.000552            |

| Surrogate                    | F | C | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|---|---|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |   |   | 0.0831 | mg/L  | 1        | 0.100           | 83                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |   |   | 0.0855 | mg/L  | 1        | 0.100           | 86                  | 70 - 130           |

**Sample: 408942 - MW 11**

Laboratory: Midland

Analysis: BTEX

QC Batch: 126744

Analytical Method: S 8021B

Date Analyzed: 2015-12-03

Prep Method: S 5030B

Analyzed By: AK

Report Date: December 14, 2015  
TNM 9704

Work Order: 15112401  
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Prep Batch: 107234

Sample Preparation: 2015-12-01

Prepared By: AK

| Parameter    | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL      | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|--------------|---|---|------------------------|------------------------|---------------------------|-------|----------|----------|---------------------|---------------------|
| Benzene      | u | 5 | <0.000299              | <0.00100               | <0.000299                 | mg/L  | 1        | 0.000299 | 0.001               | 0.000299            |
| Toluene      | u | 5 | <0.000247              | <0.00100               | <0.000247                 | mg/L  | 1        | 0.000247 | 0.001               | 0.000247            |
| Ethylbenzene | u | 5 | <0.000423              | <0.00100               | <0.000423                 | mg/L  | 1        | 0.000423 | 0.001               | 0.000423            |
| Xylene       | u | 5 | <0.000552              | <0.00100               | <0.000552                 | mg/L  | 1        | 0.000552 | 0.001               | 0.000552            |

| Surrogate                    | F | C | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|---|---|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |   |   | 0.0766 | mg/L  | 1        | 0.100           | 77                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |   |   | 0.0802 | mg/L  | 1        | 0.100           | 80                  | 70 - 130           |

#### Sample: 408943 - MW 13

Laboratory: Midland

Analysis: BTEX

QC Batch: 126744

Prep Batch: 107234

Analytical Method: S 8021B

Date Analyzed: 2015-12-03

Sample Preparation: 2015-12-01

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

| Parameter    | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL      | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|--------------|---|---|------------------------|------------------------|---------------------------|-------|----------|----------|---------------------|---------------------|
| Benzene      | u | 5 | <0.000299              | <0.00100               | <0.000299                 | mg/L  | 1        | 0.000299 | 0.001               | 0.000299            |
| Toluene      | u | 5 | <0.000247              | <0.00100               | <0.000247                 | mg/L  | 1        | 0.000247 | 0.001               | 0.000247            |
| Ethylbenzene | u | 5 | <0.000423              | <0.00100               | <0.000423                 | mg/L  | 1        | 0.000423 | 0.001               | 0.000423            |
| Xylene       | u | 5 | <0.000552              | <0.00100               | <0.000552                 | mg/L  | 1        | 0.000552 | 0.001               | 0.000552            |

| Surrogate                    | F | C | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|---|---|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |   |   | 0.0897 | mg/L  | 1        | 0.100           | 90                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |   |   | 0.0895 | mg/L  | 1        | 0.100           | 90                  | 70 - 130           |

#### Sample: 408944 - MW 18

Laboratory: Midland

Analysis: BTEX

QC Batch: 126744

Prep Batch: 107234

Analytical Method: S 8021B

Date Analyzed: 2015-12-03

Sample Preparation: 2015-12-01

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

Report Date: December 14, 2015  
TNM 9704

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| Parameter    | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL      | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|--------------|---|---|------------------------|------------------------|---------------------------|-------|----------|----------|---------------------|---------------------|
| Benzene      | U | 5 | <0.000299              | <0.00100               | <0.000299                 | mg/L  | 1        | 0.000299 | 0.001               | 0.000299            |
| Toluene      | U | 5 | <0.000247              | <0.00100               | <0.000247                 | mg/L  | 1        | 0.000247 | 0.001               | 0.000247            |
| Ethylbenzene | U | 5 | <0.000423              | <0.00100               | <0.000423                 | mg/L  | 1        | 0.000423 | 0.001               | 0.000423            |
| Xylene       | U | 5 | <0.000552              | <0.00100               | <0.000552                 | mg/L  | 1        | 0.000552 | 0.001               | 0.000552            |

| Surrogate                    | F | C | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|---|---|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |   |   | 0.0868 | mg/L  | 1        | 0.100           | 87                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |   |   | 0.0885 | mg/L  | 1        | 0.100           | 88                  | 70 - 130           |

**Sample: 408945 - MW 15**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 126744  
Prep Batch: 107234

Analytical Method: S 8021B  
Date Analyzed: 2015-12-03  
Sample Preparation: 2015-12-01

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

| Parameter    | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL      | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|--------------|---|---|------------------------|------------------------|---------------------------|-------|----------|----------|---------------------|---------------------|
| Benzene      | U | 5 | <0.000299              | <0.00100               | <0.000299                 | mg/L  | 1        | 0.000299 | 0.001               | 0.000299            |
| Toluene      | U | 5 | <0.000247              | <0.00100               | <0.000247                 | mg/L  | 1        | 0.000247 | 0.001               | 0.000247            |
| Ethylbenzene | U | 5 | <0.000423              | <0.00100               | <0.000423                 | mg/L  | 1        | 0.000423 | 0.001               | 0.000423            |
| Xylene       | U | 5 | <0.000552              | <0.00100               | <0.000552                 | mg/L  | 1        | 0.000552 | 0.001               | 0.000552            |

| Surrogate                    | F | C | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|---|---|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |   |   | 0.0930 | mg/L  | 1        | 0.100           | 93                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |   |   | 0.0914 | mg/L  | 1        | 0.100           | 91                  | 70 - 130           |

**Sample: 408946 - MW 14**

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 126744  
Prep Batch: 107234

Analytical Method: S 8021B  
Date Analyzed: 2015-12-03  
Sample Preparation: 2015-12-01

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

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL      | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|----------|---------------------|---------------------|
| Benzene   | U | 5 | <0.000299              | <0.00100               | <0.000299                 | mg/L  | 1        | 0.000299 | 0.001               | 0.000299            |

*continued ...*

sample 408946 continued ...

| Parameter    | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL      | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|--------------|---|---|------------------------|------------------------|---------------------------|-------|----------|----------|---------------------|---------------------|
| Toluene      | U | 5 | <0.000247              | <0.00100               | <0.000247                 | mg/L  | 1        | 0.000247 | 0.001               | 0.000247            |
| Ethylbenzene |   | 5 | <b>0.00190</b>         | <b>0.00190</b>         | <0.000423                 | mg/L  | 1        | 0.000423 | 0.001               | 0.000423            |
| Xylene       |   | 5 | <b>0.0183</b>          | <b>0.0183</b>          | <0.000552                 | mg/L  | 1        | 0.000552 | 0.001               | 0.000552            |

| Surrogate                    | F | C | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|---|---|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |   |   | 0.0894 | mg/L  | 1        | 0.100           | 89                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |   |   | 0.0806 | mg/L  | 1        | 0.100           | 81                  | 70 - 130           |

#### Sample: 408947 - MW 6

Laboratory: Midland  
Analysis: BTEX  
QC Batch: 126744  
Prep Batch: 107234

Analytical Method: S 8021B  
Date Analyzed: 2015-12-03  
Sample Preparation: 2015-12-01

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

| Parameter    | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL      | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|--------------|---|---|------------------------|------------------------|---------------------------|-------|----------|----------|---------------------|---------------------|
| Benzene      |   | 5 | <b>0.286</b>           | <b>0.286</b>           | <0.000299                 | mg/L  | 1        | 0.000299 | 0.001               | 0.000299            |
| Toluene      | U | 5 | <0.000247              | <0.00100               | <0.000247                 | mg/L  | 1        | 0.000247 | 0.001               | 0.000247            |
| Ethylbenzene |   | 5 | <b>0.0413</b>          | <b>0.0413</b>          | <0.000423                 | mg/L  | 1        | 0.000423 | 0.001               | 0.000423            |
| Xylene       |   | 5 | <b>0.0857</b>          | <b>0.0857</b>          | <0.000552                 | mg/L  | 1        | 0.000552 | 0.001               | 0.000552            |

| Surrogate                    | F | C | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|---|---|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |   |   | 0.0800 | mg/L  | 1        | 0.100           | 80                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |   |   | 0.0908 | mg/L  | 1        | 0.100           | 91                  | 70 - 130           |

#### Sample: 408947 - MW 6

Laboratory: Lubbock  
Analysis: PAH  
QC Batch: 126886  
Prep Batch: 107383

Analytical Method: S 8270D  
Date Analyzed: 2015-12-10  
Sample Preparation: 2015-11-27

Prep Method: S 3510C  
Analyzed By: MN  
Prepared By: MN

| Parameter           | F | C         | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL       | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|---------------------|---|-----------|------------------------|------------------------|---------------------------|-------|----------|-----------|---------------------|---------------------|
| Naphthalene         | U | 1,2,3,4,6 | <0.0000656             | <0.000200              | <0.0000656                | mg/L  | 1        | 0.0000656 | 0.0002              | 6.56e-05            |
| 2-Methylnaphthalene | U | 1,2,3,4,6 | <0.0000516             | <0.000200              | <0.0000516                | mg/L  | 1        | 0.0000516 | 0.0002              | 5.16e-05            |

continued ...

sample 408947 continued ...

| Parameter              | F | C         | SDL<br>Based<br>Result | ML<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL       | ML<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|-----------|------------------------|-----------------------|---------------------------|-------|----------|-----------|--------------------|---------------------|
| 1-Methylnaphthalene    | U | 1         | <0.0000663             | <0.000200             | <0.0000663                | mg/L  | 1        | 0.0000663 | 0.0002             | 6.63e-05            |
| Acenaphthylene         | U | 1,2,3,4,6 | <0.0000581             | <0.000200             | <0.0000581                | mg/L  | 1        | 0.0000581 | 0.0002             | 5.81e-05            |
| Acenaphthene           | U | 1,2,3,4,6 | <0.0000332             | <0.000200             | <0.0000332                | mg/L  | 1        | 0.0000332 | 0.0002             | 3.32e-05            |
| Dibenzofuran           | U | 1,2,3,4,6 | <0.0000607             | <0.000200             | <0.0000607                | mg/L  | 1        | 0.0000607 | 0.0002             | 6.07e-05            |
| Fluorene               | U | 1,2,3,4,6 | <0.0000788             | <0.000200             | <0.0000788                | mg/L  | 1        | 0.0000788 | 0.0002             | 7.88e-05            |
| Anthracene             | U | 1,2,3,4,6 | <0.0000321             | <0.000200             | <0.0000321                | mg/L  | 1        | 0.0000321 | 0.0002             | 3.21e-05            |
| Phenanthrene           | U | 1,2,3,4,6 | <0.0000516             | <0.000200             | <0.0000516                | mg/L  | 1        | 0.0000516 | 0.0002             | 5.16e-05            |
| Fluoranthene           | U | 1,2,3,4,6 | <0.0000638             | <0.000200             | <0.0000638                | mg/L  | 1        | 0.0000638 | 0.0002             | 6.38e-05            |
| Pyrene                 | U | 1,2,3,4,6 | <0.0000415             | <0.000200             | <0.0000415                | mg/L  | 1        | 0.0000415 | 0.0002             | 4.15e-05            |
| Benzo(a)anthracene     | U | 1,2,3,4,6 | <0.0000721             | <0.000200             | <0.0000721                | mg/L  | 1        | 0.0000721 | 0.0002             | 7.21e-05            |
| Chrysene               | U | 1,2,3,4,6 | <0.0000811             | <0.000200             | <0.0000811                | mg/L  | 1        | 0.0000811 | 0.0002             | 8.11e-05            |
| Benzo(b)fluoranthene   | U | 1,2,3,4,6 | <0.0000710             | <0.000200             | <0.0000710                | mg/L  | 1        | 0.0000710 | 0.0002             | 7.1e-05             |
| Benzo(k)fluoranthene   | U | 1,2,3,4,6 | <0.0000561             | <0.000200             | <0.0000561                | mg/L  | 1        | 0.0000561 | 0.0002             | 5.61e-05            |
| Benzo(a)pyrene         | U | 1,2,3,4,6 | <0.0000418             | <0.000200             | <0.0000418                | mg/L  | 1        | 0.0000418 | 0.0002             | 4.18e-05            |
| Indeno(1,2,3-cd)pyrene | U | 1,2,3,4,6 | <0.0000537             | <0.000200             | <0.0000537                | mg/L  | 1        | 0.0000537 | 0.0002             | 5.37e-05            |
| Dibenzo(a,h)anthracene | U | 1,2,3,4,6 | <0.0000562             | <0.000200             | <0.0000562                | mg/L  | 1        | 0.0000562 | 0.0002             | 5.62e-05            |
| Benzo(g,h,i)perylene   | U | 1,2,3,4,6 | <0.0000519             | <0.000200             | <0.0000519                | mg/L  | 1        | 0.0000519 | 0.0002             | 5.19e-05            |

| Surrogate        | F | C               | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|---|-----------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |   |                 | 5.21   | mg/L  | 1        | 8.00            | 65                  | 10 - 120           |
| 2-Fluorobiphenyl |   | Q <sub>sr</sub> | 0.272  | mg/L  | 1        | 8.00            | 3                   | 35.9 - 120         |
| Terphenyl-d14    |   |                 | 2.87   | mg/L  | 1        | 8.00            | 36                  | 23.2 - 120         |

## Method Blanks

### Method Blank (1)

QC Batch: 126744  
Prep Batch: 107234

Date Analyzed: 2015-12-03  
QC Preparation: 2015-12-01

Analyzed By: AK  
Prepared By: AK

| Parameter    | F | C | Result    | Units | Reporting Limits |
|--------------|---|---|-----------|-------|------------------|
| Benzene      |   | 5 | <0.000299 | mg/L  | 0.000299         |
| Toluene      |   | 5 | <0.000247 | mg/L  | 0.000247         |
| Ethylbenzene |   | 5 | <0.000423 | mg/L  | 0.000423         |
| Xylene       |   | 5 | <0.000552 | mg/L  | 0.000552         |

| Surrogate                    | F | C | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|---|---|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |   |   | 0.0813 | mg/L  | 1        | 0.100        | 81               | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |   |   | 0.0771 | mg/L  | 1        | 0.100        | 77               | 70 - 130        |

### Method Blank (1)

QC Batch: 126886  
Prep Batch: 107383

Date Analyzed: 2015-12-10  
QC Preparation: 2015-11-27

Analyzed By: MN  
Prepared By: MN

| Parameter              | F | C         | Result     | Units | Reporting Limits |
|------------------------|---|-----------|------------|-------|------------------|
| Naphthalene            |   | 1,2,3,4,6 | <0.0000656 | mg/L  | 6.56e-05         |
| 2-Methylnaphthalene    |   | 1,2,3,4,6 | <0.0000516 | mg/L  | 5.16e-05         |
| 1-Methylnaphthalene    |   | 1         | <0.0000663 | mg/L  | 6.63e-05         |
| Acenaphthylene         |   | 1,2,3,4,6 | <0.0000581 | mg/L  | 5.81e-05         |
| Acenaphthene           |   | 1,2,3,4,6 | <0.0000332 | mg/L  | 3.32e-05         |
| Dibenzofuran           |   | 1,2,3,4,6 | <0.0000607 | mg/L  | 6.07e-05         |
| Fluorene               |   | 1,2,3,4,6 | <0.0000788 | mg/L  | 7.88e-05         |
| Anthracene             |   | 1,2,3,4,6 | <0.0000321 | mg/L  | 3.21e-05         |
| Phenanthrene           |   | 1,2,3,4,6 | <0.0000516 | mg/L  | 5.16e-05         |
| Fluoranthene           |   | 1,2,3,4,6 | <0.0000638 | mg/L  | 6.38e-05         |
| Pyrene                 |   | 1,2,3,4,6 | <0.0000415 | mg/L  | 4.15e-05         |
| Benzo(a)anthracene     |   | 1,2,3,4,6 | <0.0000721 | mg/L  | 7.21e-05         |
| Chrysene               |   | 1,2,3,4,6 | <0.0000811 | mg/L  | 8.11e-05         |
| Benzo(b)fluoranthene   |   | 1,2,3,4,6 | <0.0000710 | mg/L  | 7.1e-05          |
| Benzo(k)fluoranthene   |   | 1,2,3,4,6 | <0.0000561 | mg/L  | 5.61e-05         |
| Benzo(a)pyrene         |   | 1,2,3,4,6 | <0.0000418 | mg/L  | 4.18e-05         |
| Indeno(1,2,3-cd)pyrene |   | 1,2,3,4,6 | <0.0000537 | mg/L  | 5.37e-05         |
| Dibenzo(a,h)anthracene |   | 1,2,3,4,6 | <0.0000562 | mg/L  | 5.62e-05         |
| Benzo(g,h,i)perylene   |   | 1,2,3,4,6 | <0.0000519 | mg/L  | 5.19e-05         |

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| Surrogate        | F | C | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|---|---|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |   |   | 3.10   | mg/L  | 1        | 8.00            | 39                  | 10 - 120           |
| 2-Fluorobiphenyl |   |   | 3.34   | mg/L  | 1        | 8.00            | 42                  | 35.9 - 120         |
| Terphenyl-d14    |   |   | 3.59   | mg/L  | 1        | 8.00            | 45                  | 23.2 - 120         |

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# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 126744  
Prep Batch: 107234

Date Analyzed: 2015-12-03  
QC Preparation: 2015-12-01

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.0947        | mg/L  | 1    | 0.100           | <0.000299        | 95   | 70 - 130      |
| Toluene      |   | 5 | 0.0949        | mg/L  | 1    | 0.100           | <0.000247        | 95   | 70 - 130      |
| Ethylbenzene |   | 5 | 0.0912        | mg/L  | 1    | 0.100           | <0.000423        | 91   | 70 - 130      |
| Xylene       |   | 5 | 0.267         | mg/L  | 1    | 0.300           | <0.000552        | 89   | 70 - 130      |

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

| Param        | F | C | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.100          | mg/L  | 1    | 0.100           | <0.000299        | 100  | 70 - 130      | 5   | 20           |
| Toluene      |   | 5 | 0.0991         | mg/L  | 1    | 0.100           | <0.000247        | 99   | 70 - 130      | 4   | 20           |
| Ethylbenzene |   | 5 | 0.0985         | mg/L  | 1    | 0.100           | <0.000423        | 98   | 70 - 130      | 8   | 20           |
| Xylene       |   | 5 | 0.285          | mg/L  | 1    | 0.300           | <0.000552        | 95   | 70 - 130      | 6   | 20           |

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

| Surrogate                    | F | C | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---|---|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT)       |   |   | 0.0863        | 0.0882         | mg/L  | 1    | 0.100           | 86          | 88           | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) |   |   | 0.0893        | 0.0917         | mg/L  | 1    | 0.100           | 89          | 92           | 70 - 130      |

## Laboratory Control Spike (LCS-1)

QC Batch: 126886  
Prep Batch: 107383

Date Analyzed: 2015-12-10  
QC Preparation: 2015-11-27

Analyzed By: MN  
Prepared By: MN

| Param               | F | C         | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|---------------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Naphthalene         |   | 1,2,3,4,6 | 6.65          | mg/L  | 1    | 8.00            | <0.0000656       | 83   | 49.7 - 120    |
| 2-Methylnaphthalene |   | 1,2,3,4,6 | 6.95          | mg/L  | 1    | 8.00            | <0.0000516       | 87   | 44.6 - 120    |
| 1-Methylnaphthalene |   | 1         | 7.15          | mg/L  | 1    | 8.00            | <0.0000663       | 89   | 10 - 189      |
| Acenaphthylene      |   | 1,2,3,4,6 | 6.87          | mg/L  | 1    | 8.00            | <0.0000581       | 86   | 40.9 - 120    |
| Acenaphthene        |   | 1,2,3,4,6 | 6.76          | mg/L  | 1    | 8.00            | <0.0000332       | 84   | 49.9 - 120    |
| Dibenzofuran        |   | 1,2,3,4,6 | 6.66          | mg/L  | 1    | 8.00            | <0.0000607       | 83   | 34 - 120      |
| Fluorene            |   | 1,2,3,4,6 | 6.31          | mg/L  | 1    | 8.00            | <0.0000788       | 79   | 49.7 - 120    |
| Anthracene          |   | 1,2,3,4,6 | 6.65          | mg/L  | 1    | 8.00            | <0.0000321       | 83   | 11.4 - 155    |

*continued ...*

control spikes continued ...

| Param                  | F  | C         | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|----|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Phenanthrene           |    | 1,2,3,4,6 | 6.45          | mg/L  | 1    | 8.00            | <0.0000516       | 81   | 41 - 120      |
| Fluoranthene           |    | 1,2,3,4,6 | 6.48          | mg/L  | 1    | 8.00            | <0.0000638       | 81   | 35.7 - 120    |
| Pyrene                 |    | 1,2,3,4,6 | 6.69          | mg/L  | 1    | 8.00            | <0.0000415       | 84   | 19.5 - 139    |
| Benzo(a)anthracene     |    | 1,2,3,4,6 | 6.26          | mg/L  | 1    | 8.00            | <0.0000721       | 78   | 53.4 - 120    |
| Chrysene               |    | 1,2,3,4,6 | 13.3          | mg/L  | 1    | 8.00            | <0.0000811       | 166  | 10 - 170      |
| Benzo(b)fluoranthene   |    | 1,2,3,4,6 | 7.37          | mg/L  | 1    | 8.00            | <0.0000710       | 92   | 29.2 - 120    |
| Benzo(k)fluoranthene   |    | 1,2,3,4,6 | 9.13          | mg/L  | 1    | 8.00            | <0.0000561       | 114  | 23.4 - 120    |
| Benzo(a)pyrene         |    | 1,2,3,4,6 | 8.36          | mg/L  | 1    | 8.00            | <0.0000418       | 104  | 23.4 - 120    |
| Indeno(1,2,3-cd)pyrene |    | 1,2,3,4,6 | 8.44          | mg/L  | 1    | 8.00            | <0.0000537       | 106  | 10 - 129      |
| Dibenzo(a,h)anthracene |    | 1,2,3,4,6 | 12.6          | mg/L  | 1    | 8.00            | <0.0000562       | 158  | 10 - 174      |
| Benzo(g,h,i)perylene   | Qs | 1,2,3,4,6 | 9.72          | mg/L  | 1    | 8.00            | <0.0000519       | 122  | 30.6 - 120    |

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

| Param                  | F  | C         | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|----|-----------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Naphthalene            |    | 1,2,3,4,6 | 6.74           | mg/L  | 1    | 8.00            | <0.0000656       | 84   | 49.7 - 120    | 1   | 20           |
| 2-Methylnaphthalene    |    | 1,2,3,4,6 | 7.05           | mg/L  | 1    | 8.00            | <0.0000516       | 88   | 44.6 - 120    | 1   | 20           |
| 1-Methylnaphthalene    |    | 1         | 7.16           | mg/L  | 1    | 8.00            | <0.0000663       | 90   | 10 - 189      | 0   | 20           |
| Acenaphthylene         |    | 1,2,3,4,6 | 6.90           | mg/L  | 1    | 8.00            | <0.0000581       | 86   | 40.9 - 120    | 0   | 20           |
| Acenaphthene           |    | 1,2,3,4,6 | 6.80           | mg/L  | 1    | 8.00            | <0.0000332       | 85   | 49.9 - 120    | 1   | 20           |
| Dibenzofuran           |    | 1,2,3,4,6 | 6.61           | mg/L  | 1    | 8.00            | <0.0000607       | 83   | 34 - 120      | 1   | 20           |
| Fluorene               |    | 1,2,3,4,6 | 6.40           | mg/L  | 1    | 8.00            | <0.0000788       | 80   | 49.7 - 120    | 1   | 20           |
| Anthracene             |    | 1,2,3,4,6 | 6.67           | mg/L  | 1    | 8.00            | <0.0000321       | 83   | 11.4 - 155    | 0   | 20           |
| Phenanthrene           |    | 1,2,3,4,6 | 6.60           | mg/L  | 1    | 8.00            | <0.0000516       | 82   | 41 - 120      | 2   | 20           |
| Fluoranthene           |    | 1,2,3,4,6 | 6.59           | mg/L  | 1    | 8.00            | <0.0000638       | 82   | 35.7 - 120    | 2   | 20           |
| Pyrene                 |    | 1,2,3,4,6 | 6.71           | mg/L  | 1    | 8.00            | <0.0000415       | 84   | 19.5 - 139    | 0   | 20           |
| Benzo(a)anthracene     |    | 1,2,3,4,6 | 6.28           | mg/L  | 1    | 8.00            | <0.0000721       | 78   | 53.4 - 120    | 0   | 20           |
| Chrysene               |    | 1,2,3,4,6 | 13.3           | mg/L  | 1    | 8.00            | <0.0000811       | 166  | 10 - 170      | 0   | 20           |
| Benzo(b)fluoranthene   |    | 1,2,3,4,6 | 7.28           | mg/L  | 1    | 8.00            | <0.0000710       | 91   | 29.2 - 120    | 1   | 20           |
| Benzo(k)fluoranthene   |    | 1,2,3,4,6 | 9.17           | mg/L  | 1    | 8.00            | <0.0000561       | 115  | 23.4 - 120    | 0   | 20           |
| Benzo(a)pyrene         |    | 1,2,3,4,6 | 8.32           | mg/L  | 1    | 8.00            | <0.0000418       | 104  | 23.4 - 120    | 0   | 20           |
| Indeno(1,2,3-cd)pyrene |    | 1,2,3,4,6 | 8.35           | mg/L  | 1    | 8.00            | <0.0000537       | 104  | 10 - 129      | 1   | 20           |
| Dibenzo(a,h)anthracene |    | 1,2,3,4,6 | 12.4           | mg/L  | 1    | 8.00            | <0.0000562       | 155  | 10 - 174      | 2   | 20           |
| Benzo(g,h,i)perylene   | Qs | 1,2,3,4,6 | 9.77           | mg/L  | 1    | 8.00            | <0.0000519       | 122  | 30.6 - 120    | 0   | 20           |

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

| Surrogate        | F | C | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------|---|---|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Nitrobenzene-d5  |   |   | 6.65          | 6.76           | mg/L  | 1    | 8.00            | 83          | 84           | 10 - 120      |
| 2-Fluorobiphenyl |   |   | 7.19          | 7.20           | mg/L  | 1    | 8.00            | 90          | 90           | 35.9 - 120    |
| Terphenyl-d14    |   |   | 7.39          | 7.42           | mg/L  | 1    | 8.00            | 92          | 93           | 23.2 - 120    |

# Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 408881

QC Batch: 126744  
Prep Batch: 107234

Date Analyzed: 2015-12-03  
QC Preparation: 2015-12-01

Analyzed By: AK  
Prepared By: AK

| Param        | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene      |   | 5 | 0.108        | mg/L  | 1    | 0.100           | <0.000299        | 108  | 70 - 130      |
| Toluene      |   | 5 | 0.106        | mg/L  | 1    | 0.100           | <0.000247        | 106  | 70 - 130      |
| Ethylbenzene |   | 5 | 0.103        | mg/L  | 1    | 0.100           | <0.000423        | 103  | 70 - 130      |
| Xylene       |   | 5 | 0.294        | mg/L  | 1    | 0.300           | <0.000552        | 98   | 70 - 130      |

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

| Param        | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene      |   | 5 | 0.103         | mg/L  | 1    | 0.100           | <0.000299        | 103  | 70 - 130      | 5   | 20           |
| Toluene      |   | 5 | 0.103         | mg/L  | 1    | 0.100           | <0.000247        | 103  | 70 - 130      | 3   | 20           |
| Ethylbenzene |   | 5 | 0.103         | mg/L  | 1    | 0.100           | <0.000423        | 103  | 70 - 130      | 0   | 20           |
| Xylene       |   | 5 | 0.297         | mg/L  | 1    | 0.300           | <0.000552        | 99   | 70 - 130      | 1   | 20           |

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

| Surrogate                    | F | C | MS<br>Result | MSD<br>Result | Units | Dil. | Spike<br>Amount | MS<br>Rec. | MSD<br>Rec. | Rec.<br>Limit |
|------------------------------|---|---|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT)       |   |   | 0.0852       | 0.0859        | mg/L  | 1    | 0.1             | 85         | 86          | 70 - 130      |
| 4-Bromofluorobenzene (4-BFB) |   |   | 0.0858       | 0.0900        | mg/L  | 1    | 0.1             | 86         | 90          | 70 - 130      |

## Calibration Standards

### Standard (CCV-1)

QC Batch: 126744

Date Analyzed: 2015-12-03

Analyzed By: AK

| Param        | F | C | 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      |   | 5 | mg/L  | 0.100                 | 0.0999                 | 100                         | 80 - 120                      | 2015-12-03       |
| Toluene      |   | 5 | mg/L  | 0.100                 | 0.101                  | 101                         | 80 - 120                      | 2015-12-03       |
| Ethylbenzene |   | 5 | mg/L  | 0.100                 | 0.100                  | 100                         | 80 - 120                      | 2015-12-03       |
| Xylene       |   | 5 | mg/L  | 0.300                 | 0.286                  | 95                          | 80 - 120                      | 2015-12-03       |

### Standard (CCV-2)

QC Batch: 126744

Date Analyzed: 2015-12-03

Analyzed By: AK

| Param        | F | C | 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      |   | 5 | mg/L  | 0.100                 | 0.102                  | 102                         | 80 - 120                      | 2015-12-03       |
| Toluene      |   | 5 | mg/L  | 0.100                 | 0.103                  | 103                         | 80 - 120                      | 2015-12-03       |
| Ethylbenzene |   | 5 | mg/L  | 0.100                 | 0.100                  | 100                         | 80 - 120                      | 2015-12-03       |
| Xylene       |   | 5 | mg/L  | 0.300                 | 0.285                  | 95                          | 80 - 120                      | 2015-12-03       |

### Standard (CCV-3)

QC Batch: 126744

Date Analyzed: 2015-12-03

Analyzed By: AK

| Param        | F | C | 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      |   | 5 | mg/L  | 0.100                 | 0.104                  | 104                         | 80 - 120                      | 2015-12-03       |
| Toluene      |   | 5 | mg/L  | 0.100                 | 0.101                  | 101                         | 80 - 120                      | 2015-12-03       |
| Ethylbenzene |   | 5 | mg/L  | 0.100                 | 0.104                  | 104                         | 80 - 120                      | 2015-12-03       |
| Xylene       |   | 5 | mg/L  | 0.300                 | 0.291                  | 97                          | 80 - 120                      | 2015-12-03       |

### Standard (CCV-1)

QC Batch: 126886

Date Analyzed: 2015-12-10

Analyzed By: MN

| Param                  | F | C         | 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            |   | 1,2,3,4,6 | mg/L  | 60.0                  | 60.6                   | 101                         | 80 - 120                      | 2015-12-10       |
| 2-Methylnaphthalene    |   | 1,2,3,4,6 | mg/L  | 60.0                  | 61.0                   | 102                         | 80 - 120                      | 2015-12-10       |
| 1-Methylnaphthalene    |   | 1         | mg/L  | 60.0                  | 61.2                   | 102                         | 80 - 120                      | 2015-12-10       |
| Acenaphthylene         |   | 1,2,3,4,6 | mg/L  | 60.0                  | 63.2                   | 105                         | 80 - 120                      | 2015-12-10       |
| Acenaphthene           |   | 1,2,3,4,6 | mg/L  | 60.0                  | 62.5                   | 104                         | 80 - 120                      | 2015-12-10       |
| Dibenzofuran           |   | 1,2,3,4,6 | mg/L  | 60.0                  | 63.3                   | 106                         | 80 - 120                      | 2015-12-10       |
| Fluorene               |   | 1,2,3,4,6 | mg/L  | 60.0                  | 63.6                   | 106                         | 80 - 120                      | 2015-12-10       |
| Anthracene             |   | 1,2,3,4,6 | mg/L  | 60.0                  | 57.9                   | 96                          | 80 - 120                      | 2015-12-10       |
| Phenanthrene           |   | 1,2,3,4,6 | mg/L  | 60.0                  | 58.0                   | 97                          | 80 - 120                      | 2015-12-10       |
| Fluoranthene           |   | 1,2,3,4,6 | mg/L  | 60.0                  | 59.5                   | 99                          | 80 - 120                      | 2015-12-10       |
| Pyrene                 |   | 1,2,3,4,6 | mg/L  | 60.0                  | 63.7                   | 106                         | 80 - 120                      | 2015-12-10       |
| Benzo(a)anthracene     |   | 1,2,3,4,6 | mg/L  | 60.0                  | 58.6                   | 98                          | 80 - 120                      | 2015-12-10       |
| Chrysene               |   | 1,2,3,4,6 | mg/L  | 60.0                  | 59.6                   | 99                          | 80 - 120                      | 2015-12-10       |
| Benzo(b)fluoranthene   |   | 1,2,3,4,6 | mg/L  | 60.0                  | 52.6                   | 88                          | 80 - 120                      | 2015-12-10       |
| Benzo(k)fluoranthene   |   | 1,2,3,4,6 | mg/L  | 60.0                  | 60.0                   | 100                         | 80 - 120                      | 2015-12-10       |
| Benzo(a)pyrene         |   | 1,2,3,4,6 | mg/L  | 60.0                  | 56.0                   | 93                          | 80 - 120                      | 2015-12-10       |
| Indeno(1,2,3-cd)pyrene |   | 1,2,3,4,6 | mg/L  | 60.0                  | 55.2                   | 92                          | 80 - 120                      | 2015-12-10       |
| Dibenzo(a,h)anthracene |   | 1,2,3,4,6 | mg/L  | 60.0                  | 55.2                   | 92                          | 80 - 120                      | 2015-12-10       |
| Benzo(g,h,i)perylene   |   | 1,2,3,4,6 | mg/L  | 60.0                  | 55.4                   | 92                          | 80 - 120                      | 2015-12-10       |

| Surrogate        | F | C | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|---|---|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |   |   | 56.0   | mg/L  | 1        | 60.0            | 93                  | -                 |
| 2-Fluorobiphenyl |   |   | 60.4   | mg/L  | 1        | 60.0            | 101                 | -                 |
| Terphenyl-d14    |   |   | 64.2   | mg/L  | 1        | 60.0            | 107                 | -                 |

## Standard (CCV-2)

QC Batch: 126886

Date Analyzed: 2015-12-10

Analyzed By: MN

| Param               | F | C         | 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         |   | 1,2,3,4,6 | mg/L  | 60.0                  | 60.3                   | 100                         | 80 - 120                      | 2015-12-10       |
| 2-Methylnaphthalene |   | 1,2,3,4,6 | mg/L  | 60.0                  | 60.3                   | 100                         | 80 - 120                      | 2015-12-10       |
| 1-Methylnaphthalene |   | 1         | mg/L  | 60.0                  | 59.2                   | 99                          | 80 - 120                      | 2015-12-10       |
| Acenaphthylene      |   | 1,2,3,4,6 | mg/L  | 60.0                  | 62.0                   | 103                         | 80 - 120                      | 2015-12-10       |
| Acenaphthene        |   | 1,2,3,4,6 | mg/L  | 60.0                  | 61.6                   | 103                         | 80 - 120                      | 2015-12-10       |
| Dibenzofuran        |   | 1,2,3,4,6 | mg/L  | 60.0                  | 61.3                   | 102                         | 80 - 120                      | 2015-12-10       |
| Fluorene            |   | 1,2,3,4,6 | mg/L  | 60.0                  | 58.8                   | 98                          | 80 - 120                      | 2015-12-10       |
| Anthracene          |   | 1,2,3,4,6 | mg/L  | 60.0                  | 58.0                   | 97                          | 80 - 120                      | 2015-12-10       |
| Phenanthrene        |   | 1,2,3,4,6 | mg/L  | 60.0                  | 58.6                   | 98                          | 80 - 120                      | 2015-12-10       |
| Fluoranthene        |   | 1,2,3,4,6 | mg/L  | 60.0                  | 61.1                   | 102                         | 80 - 120                      | 2015-12-10       |
| Pyrene              |   | 1,2,3,4,6 | mg/L  | 60.0                  | 62.3                   | 104                         | 80 - 120                      | 2015-12-10       |
| Benzo(a)anthracene  |   | 1,2,3,4,6 | mg/L  | 60.0                  | 58.4                   | 97                          | 80 - 120                      | 2015-12-10       |

*continued ...*

*standard continued ...*

| Param                  | F | C         | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|---|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chrysene               |   | 1,2,3,4,6 | mg/L  | 60.0                  | 59.5                   | 99                          | 80 - 120                      | 2015-12-10       |
| Benzo(b)fluoranthene   |   | 1,2,3,4,6 | mg/L  | 60.0                  | 53.0                   | 88                          | 80 - 120                      | 2015-12-10       |
| Benzo(k)fluoranthene   |   | 1,2,3,4,6 | mg/L  | 60.0                  | 60.8                   | 101                         | 80 - 120                      | 2015-12-10       |
| Benzo(a)pyrene         |   | 1,2,3,4,6 | mg/L  | 60.0                  | 55.8                   | 93                          | 80 - 120                      | 2015-12-10       |
| Indeno(1,2,3-cd)pyrene |   | 1,2,3,4,6 | mg/L  | 60.0                  | 54.5                   | 91                          | 80 - 120                      | 2015-12-10       |
| Dibenzo(a,h)anthracene |   | 1,2,3,4,6 | mg/L  | 60.0                  | 54.1                   | 90                          | 80 - 120                      | 2015-12-10       |
| Benzo(g,h,i)perylene   |   | 1,2,3,4,6 | mg/L  | 60.0                  | 54.1                   | 90                          | 80 - 120                      | 2015-12-10       |

| Surrogate        | F | C | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|---|---|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |   |   | 55.8   | mg/L  | 1        | 60.0            | 93                  | -                 |
| 2-Fluorobiphenyl |   |   | 63.4   | mg/L  | 1        | 60.0            | 106                 | -                 |
| Terphenyl-d14    |   |   | 61.8   | mg/L  | 1        | 60.0            | 103                 | -                 |

## Limits of Detection (LOD)

| Test | Method  | Matrix | Instrument | Analyte                | Spike    | Pass |
|------|---------|--------|------------|------------------------|----------|------|
|      |         |        |            |                        | Amount   |      |
| BTEX | S 8021B | water  | BTEX-2     | Benzene                | 0.000600 | Pass |
| BTEX | S 8021B | water  | BTEX-2     | Toluene                | 0.000600 | Pass |
| BTEX | S 8021B | water  | BTEX-2     | Ethylbenzene           | 0.00100  | Pass |
| BTEX | S 8021B | water  | BTEX-2     | Xylene                 | 0.00100  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Naphthalene            | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | 2-Methylnaphthalene    | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | 1-Methylnaphthalene    | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Acenaphthylene         | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Acenaphthene           | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Dibenzofuran           | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Fluorene               | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Anthracene             | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Phenanthrene           | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Fluoranthene           | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Pyrene                 | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Benzo(a)anthracene     | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Chrysene               | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Benzo(b)fluoranthene   | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Benzo(k)fluoranthene   | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Benzo(a)pyrene         | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Indeno(1,2,3-cd)pyrene | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Dibenzo(a,h)anthracene | 0.00150  | Pass |
| PAH  | S 8270D | water  | 6890 Semi  | Benzo(g,h,i)perylene   | 0.00150  | Pass |

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | L-A-B                | L2418                | Lubbock             |
| 2 | Kansas               | Kansas E-10317       | Lubbock             |
| 3 | LELAP                | LELAP-02003          | Lubbock             |
| 4 | NELAP                | T104704219-15-11     | Lubbock             |
| 5 | NELAP                | T104704392-14-8      | Midland             |
| 6 |                      | 2015-066             | Lubbock             |

## Standard Flags

| F   | Description                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B   | Analyte detected in the corresponding method blank above the method detection limit                                                                                                                                                 |
| H   | Analyzed out of hold time                                                                                                                                                                                                           |
| J   | Estimated concentration                                                                                                                                                                                                             |
| Jb  | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je  | Estimated concentration exceeding calibration range.                                                                                                                                                                                |
| MI1 | Split peak or shoulder peak                                                                                                                                                                                                         |
| MI2 | Instrument software did not integrate                                                                                                                                                                                               |
| MI3 | Instrument software misidentified the peak                                                                                                                                                                                          |
| MI4 | Instrument software integrated improperly                                                                                                                                                                                           |
| MI5 | Baseline correction                                                                                                                                                                                                                 |
| Qc  | Calibration check outside of laboratory limits.                                                                                                                                                                                     |
| Qr  | RPD outside of laboratory limits                                                                                                                                                                                                    |
| Qs  | Spike recovery outside of laboratory limits.                                                                                                                                                                                        |
| Qsr | Surrogate recovery outside of laboratory limits.                                                                                                                                                                                    |
| U   | The analyte is not detected above the SDL                                                                                                                                                                                           |

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

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Contact Person: Curt Stanley E-mail: CDStanley@trcsolutions.com  
Invoice to: (If different from above) \_\_\_\_\_  
Project #: TVM 9704 Project Name: Townsend  
Project Location (including state): Lovington, NM Sampler Signature: [Signature]

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

|                         |            |              |                 |        |                     |                                |      |     |      |      |          |  |           |           |                              |                              |                                      |                           |                |                                                 |                                     |                     |                 |     |                       |                             |                  |                       |              |                  |                                                                                                 |                        |     |                                             |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
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| LAB #<br>(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 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, SO <sub>4</sub> , NO <sub>3</sub> -N, NO <sub>2</sub> -N, PO <sub>4</sub> -P, Alkalinity | Na, Ca, Mg, K, TDS, EC | PAH | Turn Around Time if different from standard | Hold |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| WATER                   | SOIL       | AIR          | SLUDGE          | HCl    | HNO <sub>3</sub>    | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE | DATE | SAMPLING |  |           |           |                              |                              |                                      |                           |                |                                                 |                                     |                     |                 |     |                       |                             |                  |                       |              |                  |                                                                                                 |                        |     |                                             |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| 408938                  | 01mw       | 3            |                 | X      |                     |                                |      | X   |      |      |          |  | 112351040 | 112351040 | X                            | X                            |                                      |                           |                |                                                 |                                     |                     |                 |     |                       |                             |                  |                       |              |                  |                                                                                                 |                        |     |                                             |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | </ |

Relinquished by: Carla Angeles Trc Solutions Date: 11/24/15 Time: 9:45 Company: TA Received by: [Signature] Date: 11-24-15 Time: 8:50 Company: TA INST: 112351040 OBS: 0.9 COR: 0.8

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Relinquished by: [Signature] Date: 11-24-15 Time: 9:45 Company: TA Received by: [Signature] Date: 11-24-15 Time: 8:50 Company: TA INST: 112351040 OBS: 0.9 COR: 0.8

### REMARKS:

### LAB USE ONLY

Intact Y / N / NA  
Headspace Y / N / NA  
Log-in-Review AD

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

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1000 Rio Brazos Road  
Aztec, NM 87410  
District IV - (505) 827-7191

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Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

|                                            |                                 |
|--------------------------------------------|---------------------------------|
| Name<br>Texas-New Mexico Pipe Line Company | Contact<br>Edwin H. Gripp       |
| Address<br>Box 60028, San Angelo, TX 76906 | Telephone No.<br>(915) 947-9000 |
| Facility Name<br>4" gathering line         | Facility Type<br>pipeline       |

|                               |               |           |
|-------------------------------|---------------|-----------|
| Surface Owner<br>Larry Megert | Mineral Owner | Lease No. |
|-------------------------------|---------------|-----------|

(corrected location)

| LOCATION OF RELEASE |         |          |       |               |                  |               |                |        |
|---------------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter         | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|                     | 11      | 16S      | 35E   |               |                  |               |                | Lea    |

NATURE OF RELEASE

|                                                                                                                                          |                                            |                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------|
| Type of Release<br>Sweet Crude                                                                                                           | Volume of Release (revised)<br>488 barrels | Volume Recovered<br>5 barrels                   |
| Source of Release<br>4" gathering line                                                                                                   | Date and Hour of Occurrence<br>Unknown     | Date and Hour of Discovery<br>4/16/97 4:00 p.m. |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?<br>Wayne Price            |                                                 |
| By Whom?<br>Billy D. Chapman                                                                                                             | Date and Hour<br>4/25/97 9:00 a.m.         |                                                 |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                        | If YES, Volume impacting the Watercourse.  |                                                 |

If a Watercourse was Impacted, Describe Fully.

Describe Cause of Problem and Remedial Action Taken.  
External Corrosion. Leak successfully clamped off.

Describe Area Affected and Cleanup Action Taken.  
Approximately 1500 sq.ft. pasture land. Will remediate on site.

Describe General Conditions Prevailing (Temperature, Precipitation, etc.).  
75 degrees; clear

|                                                                                                                                                    |                     |                                  |                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------|-----------------------------------|
| I hereby certify that the information given above is true and complete to the best of my knowledge and belief.<br>Signature: <i>Edwin H. Gripp</i> |                     | <u>OIL CONSERVATION DIVISION</u> |                                   |
| Printed Name: Edwin H. Gripp                                                                                                                       |                     | Approved by District Supervisor: |                                   |
| Title: District Manager                                                                                                                            |                     | Approval Date:                   | Expiration Date:                  |
| Date: August 12, 1997                                                                                                                              | Phone: 915-947-9001 | Conditions of Approval:          | Attached <input type="checkbox"/> |

\* Attach Additional Sheets If Necessary

BDC JAS

TNM-97-04

State Corp. Commission  
Pipe Line Division

Hazardous Waste Section  
NM Environmental Improvement Div.