

AP - 52

ANNUAL MONITORING REPORT

YEAR(S):
2010



**2010 ANNUAL GROUNDWATER MONITORING REPORT
C.S. CAYLER
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LEA COUNTY, NEW MEXICO
PLAINS SRS #2002-10250
NMOCD REF. # AP-052**

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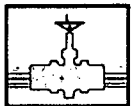
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March 1, 2011

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March 23, 2011

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

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

Dear Mr. Hansen:

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

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

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

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

Sincerely,

Jason Henry
Remediation Coordinator
Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM

Enclosures

2010 ANNUAL GROUNDWATER MONITORING REPORT

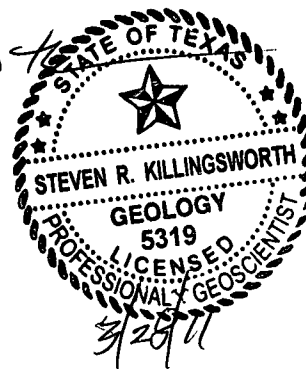
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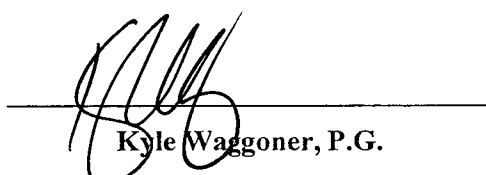
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March, 2011

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NMOCD - New Mexico Oil Conservation Division

TABLE OF CONTENTS

1	INTRODUCTION AND OBJECTIVES	1
1.1	Objectives and Site Background	1
1.2	Site Geology	1
1.3	Previous Environmental Investigations.....	2
1.4	Regulatory Framework	2
2	SITE ACTIVITIES.....	3
2.1	Groundwater Monitoring Activities	3
2.2	Groundwater Gauging, Purging, and Sampling Procedures	3
2.3	Phase Separated Hydrocarbon Recovery	4
3	GROUNDWATER MONITORING RESULTS.....	5
3.1	Groundwater Monitoring Results.....	5
3.1.1	<i>Physical Characteristics of the First Water-Bearing Zone.....</i>	<i>5</i>
3.1.2	<i>Groundwater Gradient and Flow Direction</i>	<i>5</i>
3.1.3	<i>Phase Separated Hydrocarbon (PSH)</i>	<i>6</i>
3.1.4	<i>Groundwater Analytical Results</i>	<i>6</i>
4	CONCLUSIONS AND RECOMMENDATIONS	9
4.1	Summary of Findings.....	9
4.2	Recommendations	10

APPENDICES

Appendix A Drawings

Figure 1 - Site Plan with Proposed Monitor Well Locations Map

Figure 2a - Groundwater Gradient Map - 02/18/2010

Figure 2b - Groundwater Gradient Map - 06/09/2010

Figure 2c - Groundwater Gradient Map – 09/21/2010

Figure 2d - Groundwater Gradient Map - 12/17/2010

Figure 3a - PSH Thickness & Groundwater Concentration Map - 02/18/2010

Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/09/2010

Figure 3c - PSH Thickness & Groundwater Concentration Map – 09/21/2010

Figure 3d - PSH Thickness & Groundwater Concentration Map - 12/17/2010

Appendix B Tables

Table 1 – Summary of Historical Fluid Level Measurements

Table 2 – Summary of Groundwater Analytical Results

Appendix C Laboratory Analytical Data Reports and Chain of Custody Documentation

Appendix D NMOCD C-141

1 INTRODUCTION AND OBJECTIVES

1.1 Objectives and Site Background

The C.S. Cayler (site) is located approximately seven (7) miles southeast of Lovington, Lea County, New Mexico, on property owned by Robert C. Rice. There are no residences, groundwater supply wells, or surface water bodies within a 1,000-foot radius of the site. The initial release occurred from an EOTT Energy (EOTT) steel pipeline on September 19, 2002. Subsequently, EOTT changed its name to Link Energy in October 2003, and Plains Marketing, L.P. (Plains) purchased the assets of Link Energy on April 1, 2004. Initial reports estimated that 70 barrels (bbls) of crude oil were released. During site reconnaissance, it was observed that the ground surface beyond the current spill area had apparently been impacted by a prior spill or spills; however, the source(s) and date(s) of the spill are unknown. Based on available information, no crude oil was initially recovered at the release site.

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

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

The average elevation of the site area is approximately 3,810-feet above mean sea level with a slight slope to the southeast. The regional slope of the land surface in the Southern High Plains is approximately 100 feet per mile in a southeasterly direction.

On February 5, 2007, Talon/LPE (Talon) was retained by Plains to assume remediation activities at the site. Remediation activities at the site were previously conducted by Environmental Plus, Inc. (EPI).

1.2 Site Geology

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

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

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

1.3 Previous Environmental Investigations

A total of eighteen (18) groundwater monitor wells have been installed in the vicinity of the release (see Figure 1). With New Mexico Oil Conservation Division (NMOCD) approval and landowner concurrence, groundwater monitor well MW-1 was installed in October 2002 and was subsequently plugged in September 2008 due to the well being dry. Groundwater monitor wells MW-2, MW-3, MW-4, and MW-5 were installed from May to June 2004, and MW-6, MW-7, MW-8, MW-9, and MW-10 were installed in October 2004. Groundwater monitor wells MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, and MW-17 were installed in February 2006, and MW-18 was installed in March 2008. Replacement monitor well MW-1A was installed in September 2008.

Phase-separated hydrocarbon (PSH) recovery operations have been performed at the site since September 2002. A summary of the historical groundwater and PSH gauging is provided in Table 1. Approximately 905 bbls of crude oil have been recovered to date from the site.

1.4 Regulatory Framework

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

New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards	
Compound	mg/L
Benzene	0.010
Toluene	0.750
Ethylbenzene	0.750
Total Xylenes	0.620
PAH (Naphthalene)	0.030
PAH (Benzo[a]-pyrene)	0.007

2 SITE ACTIVITIES

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

A synopsis of analytical results for the four (4) groundwater monitoring events is located in Table 2 in Appendix B, and annotated in map form on Figures 3a through 3d in Appendix A. Laboratory analytical data reports and chain of custody documentation are included in Appendix C. In addition, cumulative historical analytical data is located in the tables section on the attached CD, which is an adjunct to this report.

2.1 Groundwater Monitoring Activities

A total of four (4) groundwater monitoring events were conducted at the site during the year 2010. The events occurred on February 18, June 09, September 22, and December 17. During all of the groundwater monitoring events, the depths to groundwater and PSH, if present, were measured in all of the monitoring wells (MW-1 through MW-18) using an oil/water interface probe. Fluid levels were not measured in monitor wells MW-2 and MW-3 during the September event because the pumps were stuck and MW-2 during the December event because the pump was stuck.

During the February, June, September, and December groundwater monitoring events, ten (10) monitor wells, MW-6, MW-9, MW-10, MW-11, and MW-13 through MW-18, were purged of a minimum three (3) casing volumes and groundwater samples were collected. Groundwater samples were not collected from eight (8) monitor wells, MW-1A through MW-5, MW-7, MW-8, and MW-12, due to the presence of PSH.

Groundwater samples were not collected from monitor wells MW-4, MW-7 and MW-8 due to insufficient water in the well.

2.2 Groundwater Gauging, Purging, and Sampling Procedures

During each groundwater monitoring event, all accessible monitor wells were measured with an oil/water interface probe to determine static water levels and to determine the thickness of PSH accumulations, if present. The data collected from the measurements was used to construct groundwater gradient maps and PSH thickness maps. The gauging results collected during the four (4) events are incorporated in Table 1, Appendix B – Summary of Historical Fluid Level Measurements. In addition, cumulative historical gauging data is located in the tables section on the CD, which is an adjunct to this report.

Subsequent to gauging, all monitor wells that were not impacted with PSH were purged using a down-hole pump equipped with vinyl tubing. The pump and tubing were decontaminated with Alconox® detergent and rinsed with distilled water after each use. Recovered purge water and water used in the decontamination process was contained in on-site 55-gallon drums. After the groundwater monitoring event, all retained water was removed with a vacuum truck. Approximately 60 gallons of purged groundwater and water used for pump decontamination was generated during the monitoring events of 2010.

Groundwater samples were collected from all monitor wells using dedicated disposable polyethylene bailers, except for the monitor wells impacted with PSH. The groundwater samples were contained in laboratory supplied sample vials infused with the appropriate preservative required for the requested analysis. The groundwater samples were maintained on ice, in the custody of Talon personnel, until they were delivered to TraceAnalysis, Inc. in Midland, Texas for testing. The groundwater samples collected during the all four events were quantified for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method SW-846 8021B.

2.3 Phase Separated Hydrocarbon Recovery

A total of approximately 905 bbls of PSH have been recovered at the subject site to date by both hand bailing and from the PSH recovery system since PSH recovery was initiated. PSH recovery methods have been employed at the site since 2002, initially by hand bailing followed in March of 2003 with a portable gasoline powered eductor recovery system.

In November 2007, an automated skimmer recovery system was installed at the site. The system utilized six (6) skimmers with bladder pumps in monitor wells MW-2, MW-3, MW-4, MW-5, MW-7, and MW-12 to recover PSH and to inhibit migration of the PSH plume. The skimmer assembly consists of bladder pumps combined with 24" traveling float specific gravity skimmer attachments. In July of 2009, a pneumatic total fluids pump was added to monitor well MW-1A and in January of 2010 two pneumatic total fluids pumps were added to monitor wells MW-2 and MW-3. The skimmer system and total fluids pumps are powered by a single-phase 230 volt, 7.5 HP two stage reciprocating air compressor. Fluid, recovered by the pumps, is retained in a 2,500-gallon and a 1,225-gallon poly tank. The poly tanks are equipped with high level shut off switches to prevent overflow and they are located within a secondary recovery compound that is outfitted with a poly-liner. Recovered groundwater is transported to Rocky Smith State 'E' #23 disposal facility by a three-inch HDPE pipeline using a five (5) horsepower transfer pump. The pump is operated automatically from tank level switches. PSH is periodically removed with a vacuum truck and is re-introduced to the Plains' pipeline system at the Scharb Station and/or 34 Junction South pipeline.

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

- 1st Quarter – 19 bbls crude oil and 928.5 bbls of groundwater
- 2nd Quarter - 41 bbls crude oil and 1940.85 bbls of groundwater
- 3rd Quarter - 9 bbls crude oil and 273 bbls of groundwater
- 4th Quarter - 29 bbls of crude oil and 481 bbls of groundwater

3 GROUNDWATER MONITORING RESULTS

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

3.1 Groundwater Monitoring Results

The following sections present the results from the four groundwater monitoring events at the C. S. Cayler site.

3.1.1 Physical Characteristics of the First Water-Bearing Zone

The primary groundwater resource under the Southern High Plains, including the site, is referred to as the Ogallala Aquifer or High Plains Aquifer. The Southern portion of the Ogallala aquifer underlies an area of about 29,000 square miles (mi²) in western Texas and eastern New Mexico, encompassing all or part of 31 counties in Texas and 6 counties in New Mexico.

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

The Ogallala Aquifer is generally unconfined and the potentiometric surface generally mirrors the land surface elevation with the regional flow direction from the northwest to the southeast. The mean regional gradient is 15 feet per mile and the typical groundwater velocity averages seven (7) inches per day. The regional hydraulic conductivity averages 17 gallons per day per square-foot and specific yield averages 16%. The depth to groundwater at the site has historically ranged from 80 to 85 feet below ground surface (bgs) and the groundwater flow direction is to the southeast at an average of five (5) feet per mile. The saturated thickness of the Ogallala formation on the High Plains ranges from 25 feet to 175 feet. The variable thickness is due to the irregularly eroded Triassic surface that underlies it.

The composition of Ogallala groundwater is defined as mixed-cation-HCO₃, therefore, Ogallala groundwater is considered hard. Problems with scale have occurred with residential and commercial water systems that use Ogallala groundwater and often treatment strategies are employed to reduce the effects of scale. The typical total dissolved solids of Ogallala groundwater in the Hobbs-Lovington area is generally less than 1,000 mg/L (ppm) in areas not impacted by oil-field brines. The pH of Ogallala water averages 7.3.

3.1.2 Groundwater Gradient and Flow Direction

The depth to fluid measurements was collected during each of the four (4) groundwater monitoring events during the year 2010. The results of the fluid level measurements are

summarized in Table 1, Appendix B - Summary of Historical Fluid Level Measurements. In addition, cumulative historical gauging data is located in the tables section on the CD that is an adjunct to this report.

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

The potentiometric surface maps constructed for each of the four (4) groundwater monitoring events indicates that the groundwater flow direction is to southeast at an approximate gradient of 0.0011 feet/foot or approximately 5.8 feet per mile. Groundwater levels at the subject site have exhibited a steady decline of an average of 1.18 feet for the year that appears to be associated with a regional trend of declining groundwater levels for the Ogallala Aquifer.

3.1.3 Phase Separated Hydrocarbon (PSH)

An oil/water interface probe was used to determine the thicknesses of PSH during the four (4) groundwater monitoring events. Generally, PSH thicknesses have fluctuated from quarter to quarter during the year 2010 and have exhibited both declines and increases in thickness with no apparent trend or pattern.

In addition to potentiometric surface maps, isopleth maps were prepared depicting the measured PSH thicknesses and PSH plume geometry. PSH plume delineation and thickness maps are presented in Appendix A as Figures 3a through 3d. Currently, the PSH plume is delineated by the current monitor well geometry.

- During the February 2010 event, PSH was observed in monitor wells MW-1A, MW-2, MW-3, MW-4, MW-5, MW-7, and MW-12. PSH thickness ranged from 0.43 feet to 6.60 feet.
- During the June 2010 event, PSH was observed in monitor wells MW-1A, MW-2, MW-3, MW-4, MW-5, and MW-12. PSH thickness ranged from 0.21 feet to 8.07 feet.
- During the September 2010 event, PSH was observed in monitor wells MW-1A, MW-4, MW-5, and MW-12. PSH thickness ranged from 3.68 feet to 7.87 feet. Pumps were stuck in monitor wells MW-2 and MW-3 and they could not be gauged.
- During the December 2010 event, PSH was observed in monitor wells MW-1A, MW-3, MW-4, MW-5, and MW-12. PSH thickness ranged from 1.90 to 3.10 feet. The pump was stuck in monitor well MW-2, and it could not be gauged.

Generally, PSH thicknesses have fluctuated from quarter to quarter during the year 2010; however, PSH thicknesses have exhibited an overall decline averaging 3.63 feet.

3.1.4 Groundwater Analytical Results

During the first quarter February 2010 sampling event, groundwater samples were collected from monitor wells MW-6, MW-9, MW-10, MW-11 and MW-13 through MW-18. Samples were not collected from monitor wells MW-1A, MW-2, MW-3, MW-5, MW-7, MW-8, and MW-12 due to the presence of PSH. Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from <0.00100 mg/L to 1.36 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-6, MW-9, MW-10, MW-13, and MW-16.
- Toluene concentrations ranged from <0.00100 mg/L to 0.0375 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any collected groundwater sample.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.0456 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any collected groundwater sample.
- Xylene concentrations ranged from <0.00100 mg/L to 0.0733 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the collected groundwater samples.

During the June 2010 sampling event, groundwater samples were collected from monitor wells MW-6, MW-9, MW-10, MW-11 and MW-13 through MW-18. Samples were not collected from monitor wells MW-1A through MW-5, and MW-12 due to the presence of PSH. Monitor wells MW-7 and MW-8 were dry. Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from <0.00100 mg/L to 0.0953 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-6, MW-9, MW-13, and MW-16.
- Toluene concentrations ranged from <0.00100 mg/L to 0.0089 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the collected groundwater samples.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to <0.00500 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the collected groundwater samples.
- Xylene concentrations ranged from <0.00100 mg/L to <0.00500 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any collected groundwater sample.

During the September 2010 sampling event, groundwater samples were collected from monitor wells MW-6, MW-9, MW-11, MW-13 through MW-18. Samples were not collected from monitor wells MW-1A, MW-4, MW-5, and MW-12 due to the presence of PSH. Monitor wells MW-7, MW-8 and MW-10 were dry. The pumps were stuck in monitor wells MW-2 and MW-3; therefore they were not gauged. Monitor wells MW-2 and MW-3 are within the PSH plume because they continue to pump PSH. Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from <0.00100 mg/L to 0.157 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor well MW-6, MW-9, MW-13, and MW-16.
- Toluene concentrations ranged from <0.00100 mg/L to 0.0180 mg/L. Toluene

concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any collected groundwater sample.

- Ethylbenzene concentrations ranged from <0.00100 mg/L to <0.00500 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the collected groundwater samples.
- Xylene concentrations ranged from <0.00100 mg/L to <0.00500 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any collected groundwater sample.

During the December 2010 sampling event, groundwater samples were collected from monitor wells MW-6, MW-9, MW-10, MW-11, and MW-13 through MW-18. Samples were not collected from monitor wells MW-1A, MW-3, MW-4, MW-5, and MW-12 due to the presence of PSH. The pump was stuck in monitor well MW-2; therefore it was not gauged. Monitor well MW-2 is within the PSH plume because it continues to pump PSH. Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from <0.00100 mg/L to 0.0908 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in the groundwater samples collected from monitor wells MW-6, MW-10, MW-13 and MW-16.
- Toluene concentrations ranged from <0.00100 mg/L to <0.00500 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any collected sample.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to <0.00500 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any collected sample.
- Xylene concentrations ranged from <0.00100 mg/L to 0.0302 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any collected sample.

4 CONCLUSIONS AND RECOMMENDATIONS

The following section presents a summary of the four groundwater monitoring events conducted at the C. S. Cayler site and Section 4.2 provides recommendations for future corrective action.

4.1 Summary of Findings

- The groundwater flow direction is to the southeast at an average gradient of 0.0011 ft/ft or 5.8 feet per mile.
- Groundwater levels at the subject site have exhibited a steady decline averaging 1.18 feet for the year 2010 that appears to be associated with a regional trend of declining groundwater levels for the Ogallala Aquifer.
- PSH has impacted monitor wells MW-1A, MW-2, MW-3, MW-4, MW-5, and MW-12.
- Generally, PSH thicknesses have fluctuated from quarter to quarter during the year 2010; however, PSH thicknesses have exhibited an overall decline averaging 3.63 feet.
- The dissolved-phase concentrations have remained relatively stable for the year 2010 and have exhibited slight fluctuations with no apparent trend. Currently, the dissolved-phase and PSH plumes are delineated by the current monitor well array.
- BTEX constituents were not detected in groundwater samples collected from down-gradient monitor well MW-18 in all four monitoring events indicating that the dissolved-phase plume does not appear to be migrating down-gradient.
- The PSH recovery system has removed 98 bbls of crude oil from the groundwater during 2010 indicating that the system is performing its function.
- Monitor wells MW-7 and MW-8 have been consistently dry throughout the year and the pump is stuck in monitor well MW-2.

4.2 Recommendations

Based upon the results of the quarterly groundwater monitoring and PSH recovery efforts, Talon proposes the following actions:

- Continue operation and maintenance of the skimmer/bladder pump and total fluids pump recovery system. Monitor the system on a weekly basis to optimize PSH recovery efficiency.
- Add or reposition pumps as necessary to optimize PSH recovery and inhibit plume migration.
- Perform quarterly groundwater monitoring events in accordance with NMOCD directives.
- Remove the stuck pump from MW-2. Possibly reposition the pump to another PSH impacted monitor well depending the gauging results in MW-2
- Plug and abandon monitor wells MW-7 and MW-8 and re-drill the monitor wells (MW-7A and MW-8A) deeper to account for declining groundwater levels.

APPENDIX A

Figures

Figure 1 - Site Plan

Figure 2a - Groundwater Gradient Map – 02/18/2010

Figure 2b - Groundwater Gradient Map – 06/09/2010

Figure 2c - Groundwater Gradient Map – 09/21/2010

Figure 2d - Groundwater Gradient Map - 12/17/2010

Figure 3a - PSH Thickness & Groundwater Concentration Map - 02/18/2010

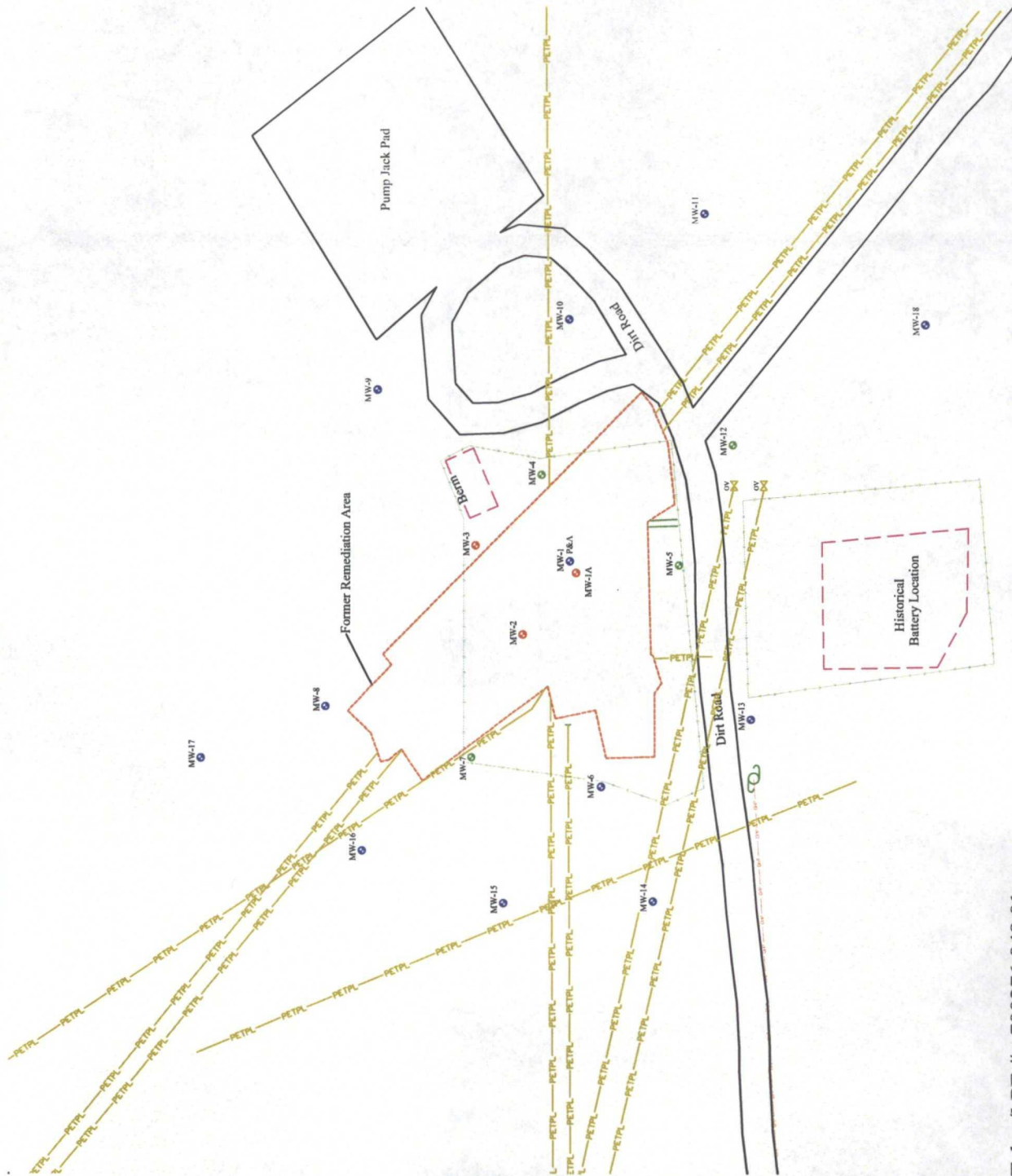
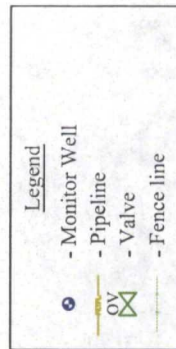
Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/09/2010

Figure 3c - PSH Thickness & Groundwater Concentration Map - 09/21/2010

Figure 3d - PSH Thickness & Groundwater Concentration Map - 12/17/2010



0 50 100
Scale in Feet



Talon/LPE # : 700376.049.01



Date: 04/24/2009

Scale: 1" = 100'

Drawn By: SJA

C.S. Cayler

SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)

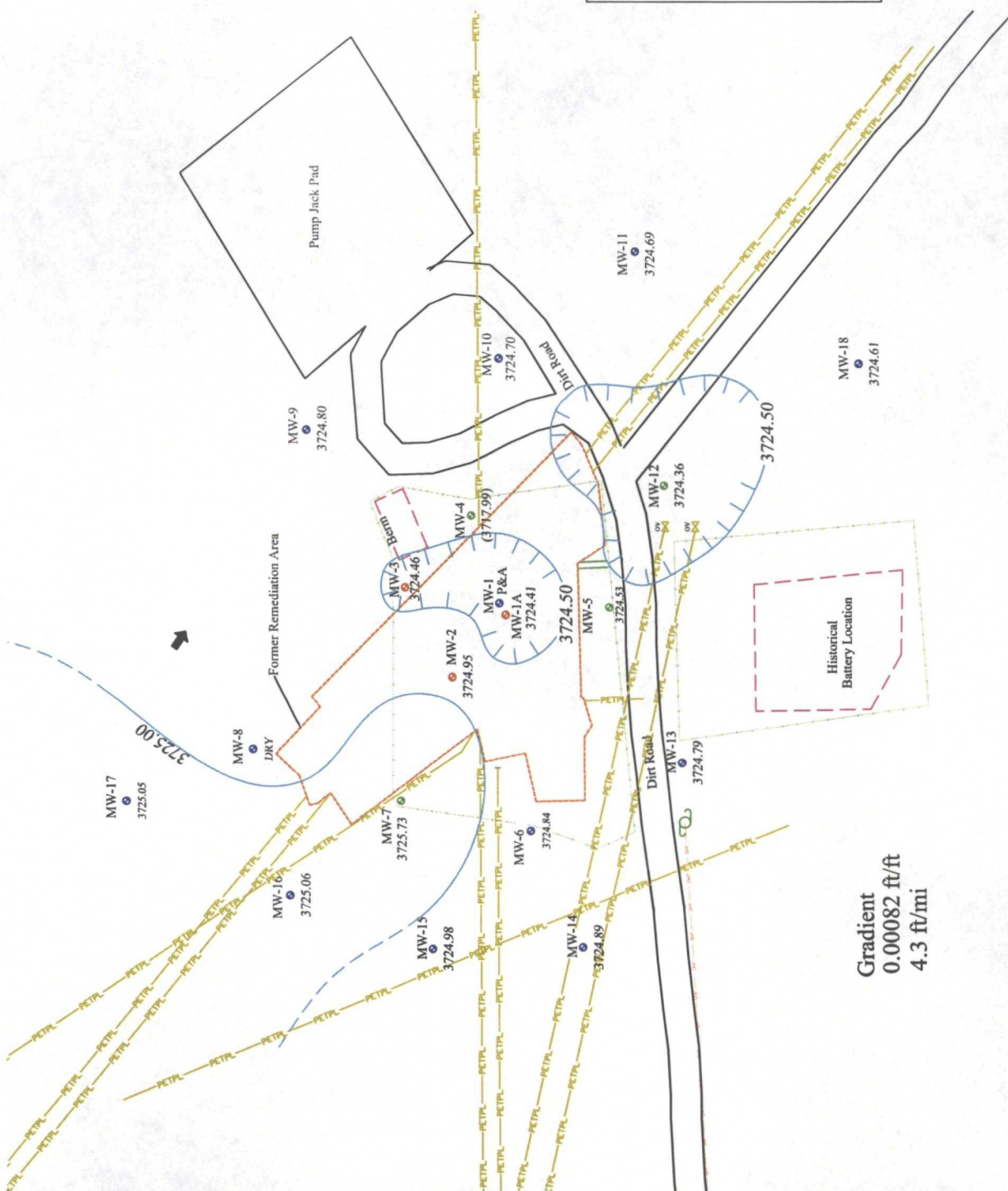
Lea County, New Mexico

Figure 1 - Site Plan



0 50 100
Scale in Feet

- Legend**
- Monitor Well
 - Monitor Well with Skimmer
 - Monitor Well with total fluid pump
 - Pipeline
 - Valve
 - Fence line
 - Groundwater Elevation Contour Line
 - Groundwater Contour Elevation
 - Groundwater Flow Direction
 - Anomalous Data Not Used



Gradient
0.00082 ft/ft
4.3 ft/mi

C.S. Caylor
SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, New Mexico

Figure 2a - Groundwater Gradient Map - 02/18/2010

Date: 12/29/2010

Scale: 1" = 100'

Drawn By: TJS

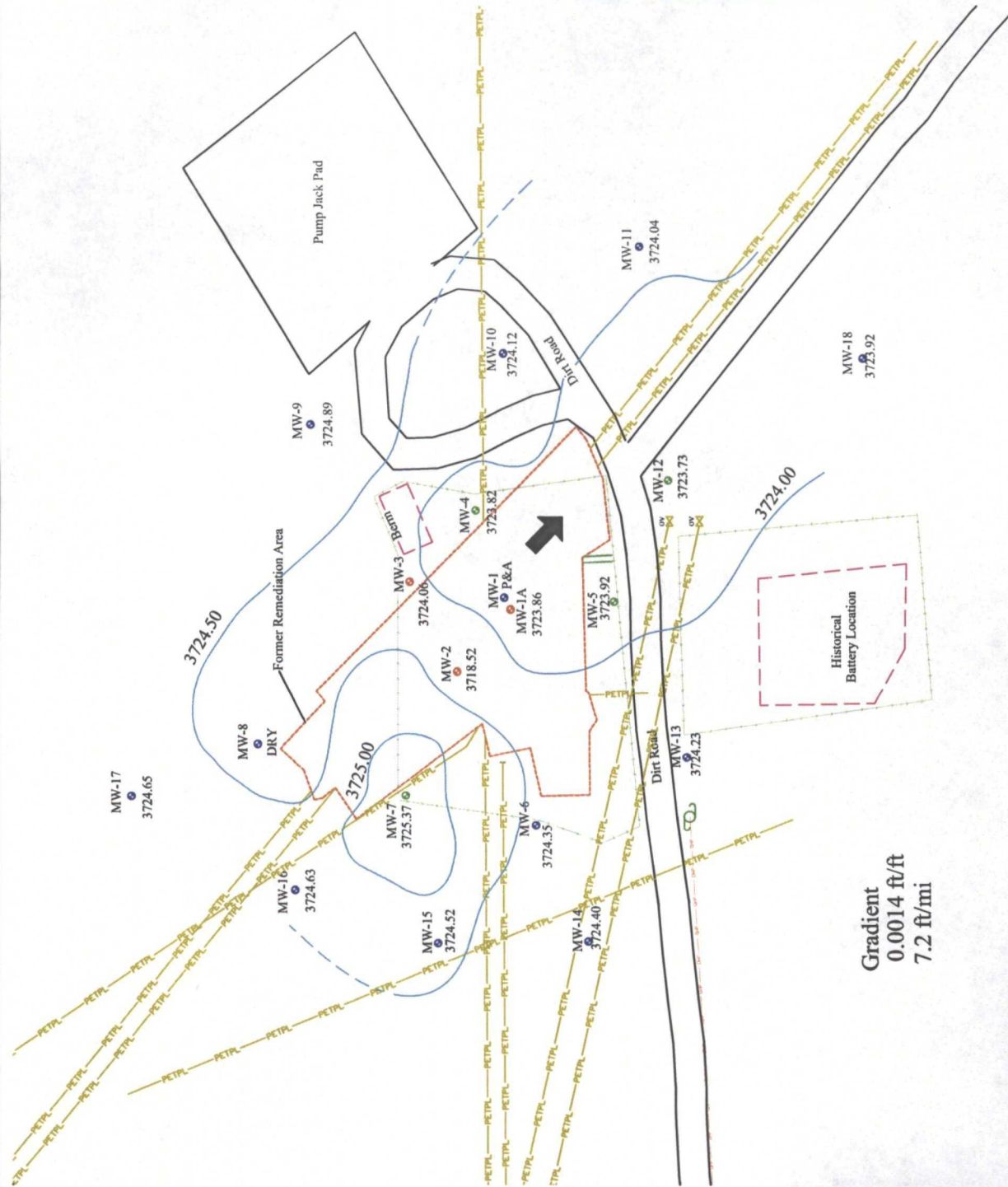


Talon/LPE # : 700376.049.01



0 50 100
Scale in Feet

- Legend**
- Monitor Well
 - Monitor Well with Skimmer
 - Monitor Well with total fluid pump
 - Pipeline
 - Valve
 - Fence line
 - Groundwater Elevation Contour Line
 - Groundwater Contour Elevation
 - Groundwater Flow Direction
 - Anomalous Data Not Used



Gradient
0.0014 ft/ft
7.2 ft/mi

Talon/LPE # : 700376.049.01



Date: 12/29/2010

Scale: 1" = 100'

Drawn By: TJS

C.S. Cayler

SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)

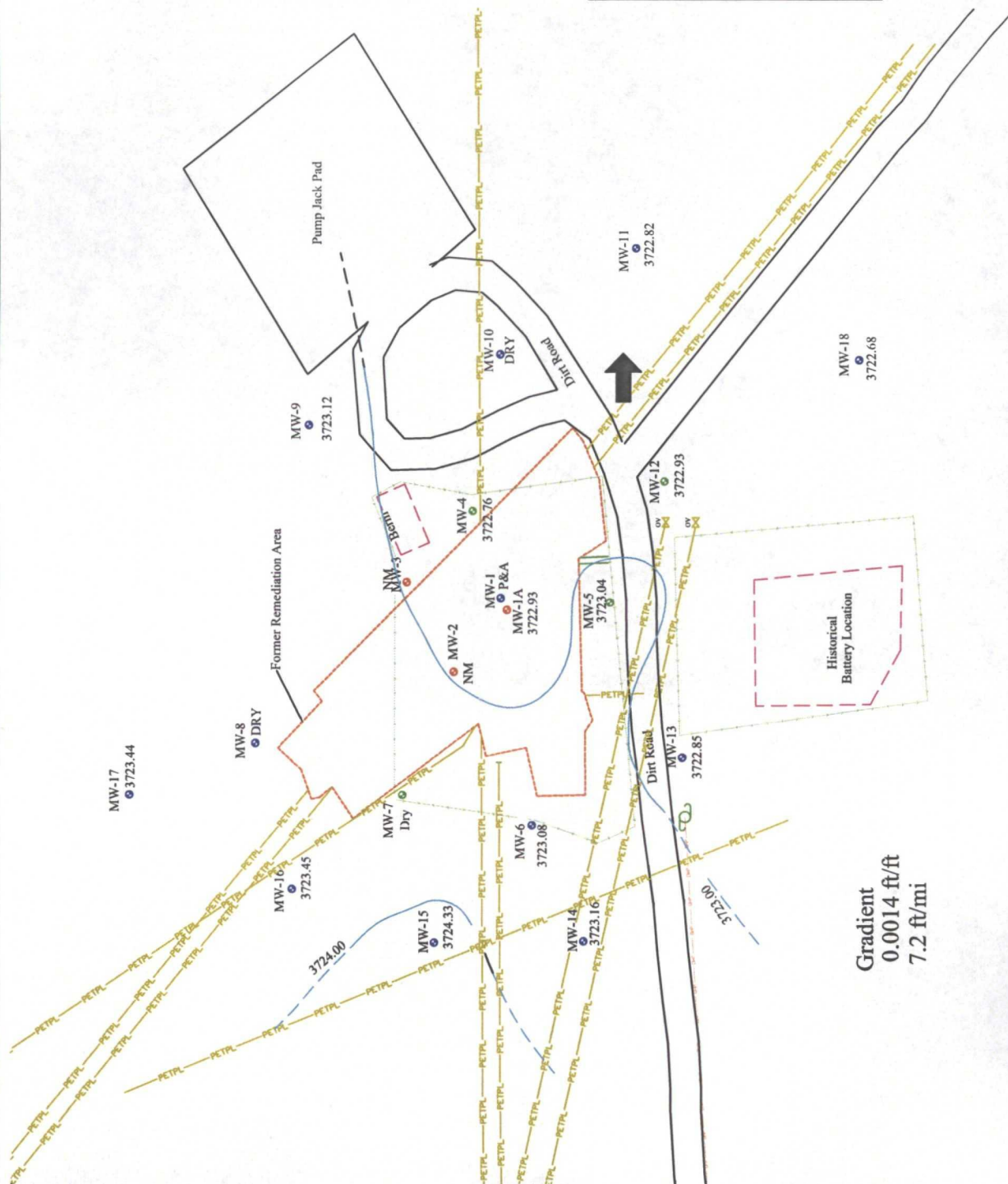
Lea County, New Mexico

Figure 2b - Groundwater Gradient Map - 06/09/2010



0 50 100
Scale in Feet

- Legend**
- Monitor Well
 - Monitor Well with Skimmer
 - Monitor Well with total fluid pump
 - Pipeline
 - Valve
 - Fence line
 - Groundwater Elevation Contour Line
 - Groundwater Contour Elevation
 - Groundwater Flow Direction
 - Anomalous Data Not Used



Gradient
0.0014 ft/ft
7.2 ft/mi

Talon/LPE #: 700376.049.01



Date: 12/29/2010

Scale: 1" = 100'

Drawn By: TJS

C.S. Caylor

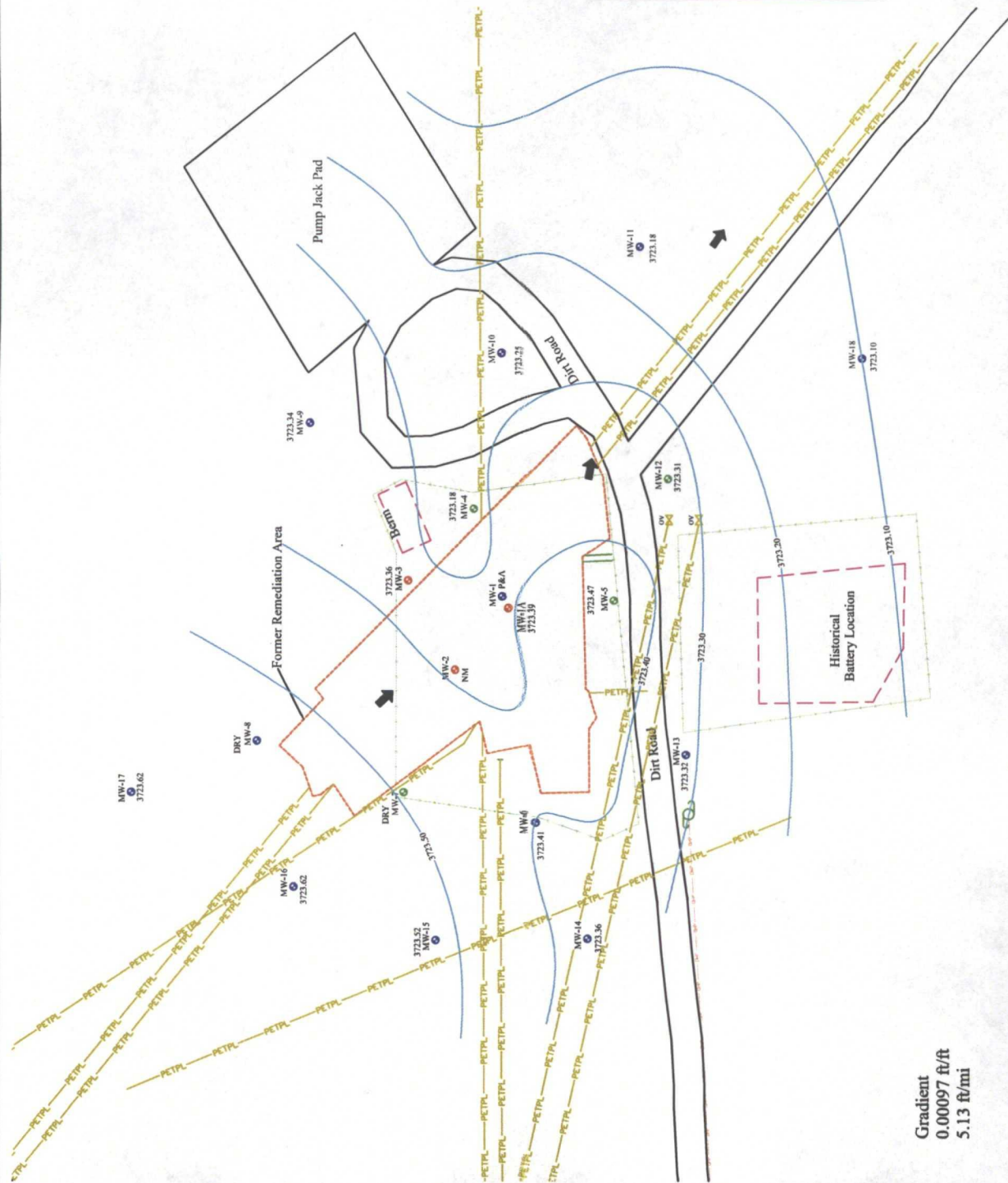
SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, New Mexico

Figure 2c - Groundwater Gradient Map - 09/21/2010



0 50 100
Scale in Feet

- Legend**
- Monitor Well
 - Monitor Well with Skimmer
 - Monitor Well with total fluid pump
 - Pipeline
 - Valve
 - Fence line
 - Groundwater Elevation Contour Line
 - Groundwater Contour Elevation
 - Groundwater Flow Direction
 - Anomalous Data Not Used



Gradient
0.00097 ft/ft
5.13 ft/mi

Talon/LPE #: 700376.049.01



Date: 12/29/2010

Scale: 1" = 100'

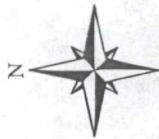
Drawn By: TJS

C.S. Cayler

SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)

Lea County, New Mexico

Figure 2d - Groundwater Gradient Map - 12/17/2010

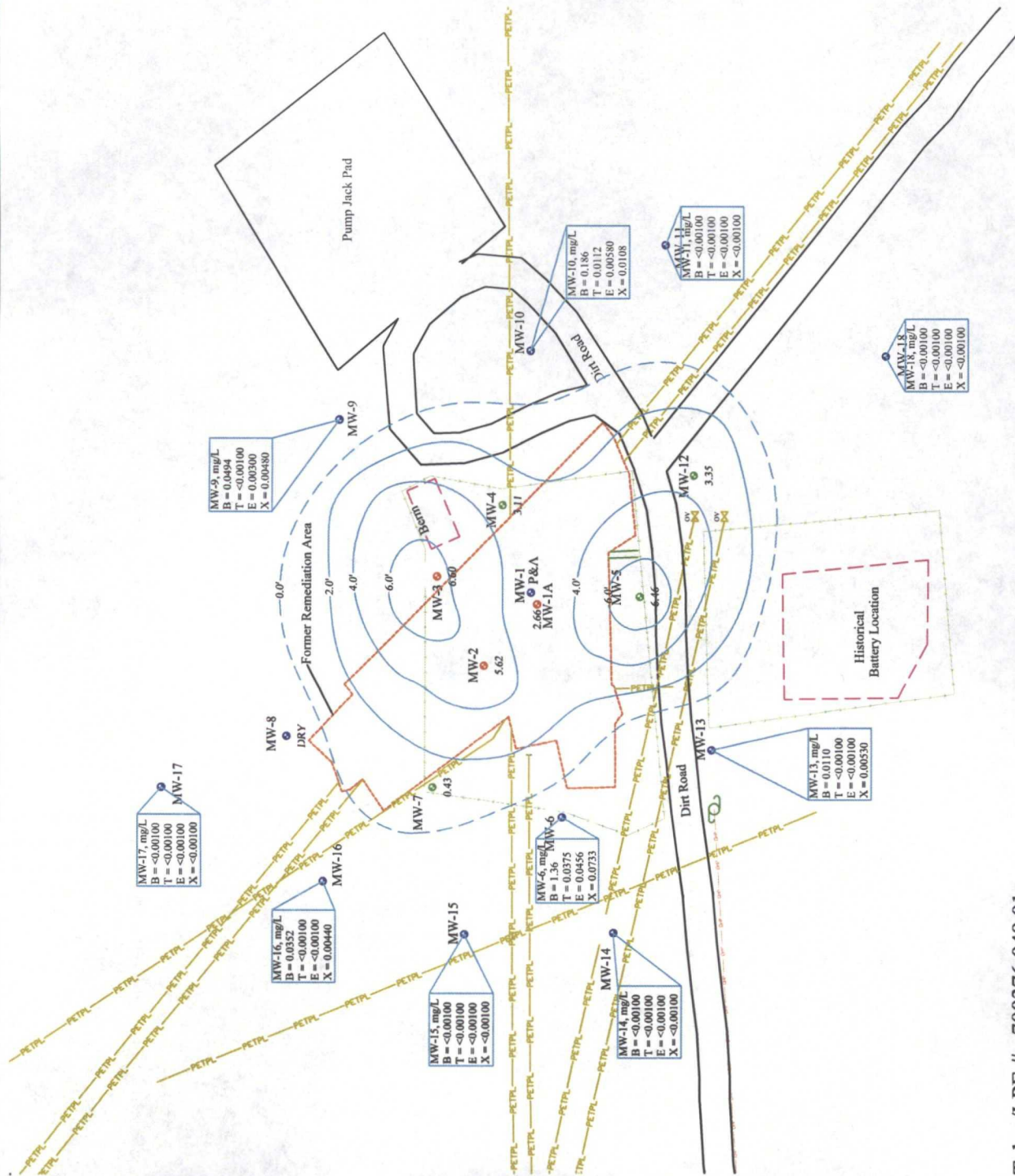


0 50 100
Scale in Feet

Legend

- Monitor Well
- Monitor Well with Skimmer
- Monitor Well with total fluid pump
- Pipeline
- Valve
- Fence line
- Contour Line
- PSH Plume Thickness

2.0'



Talon/LPE #: 700376.049.01



Date: 12/29/2010

Scale: 1" = 100'

Drawn By: TJS

C.S. Cayler

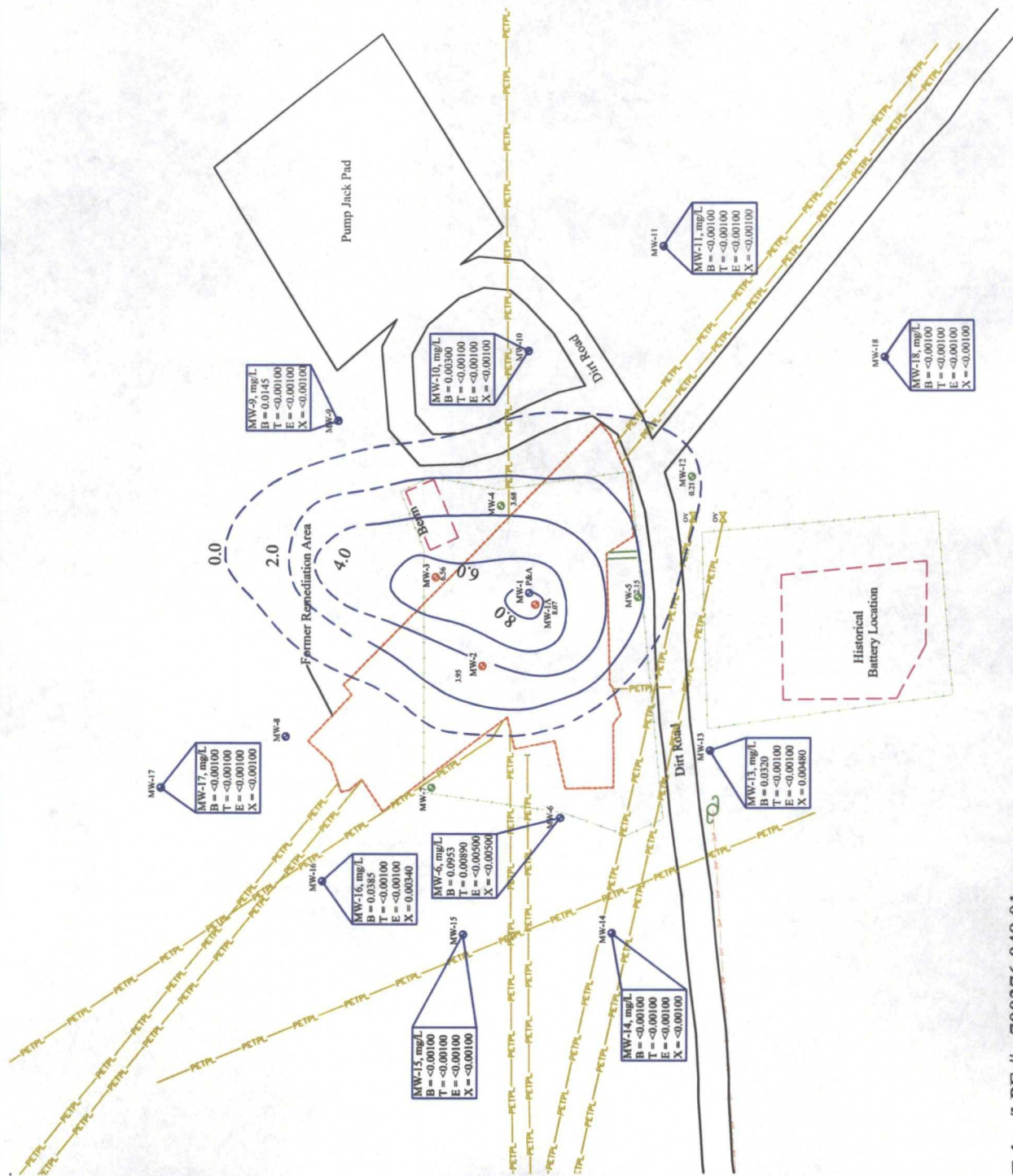
SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)
Lea County, New Mexico

Figure 3a - PSH Thickness & Groundwater Concentration Map, (02/18/2010)



Legend

- Monitor Well
- Monitor Well with Skimmer
- Monitor Well with total fluid pump
- Pipeline
- Valve
- Fence line
- Contour Line
- PSH Plume Thickness



Talon/LPE # : 700376.049.01



Date: 04/13/2010

Scale: 1" = 100'

Drawn By: TJS

C.S. Cayler

SRS # 2002-10250, NMOCD REF. # AP-052 (OLD IR-0382)
Lea County, New Mexico

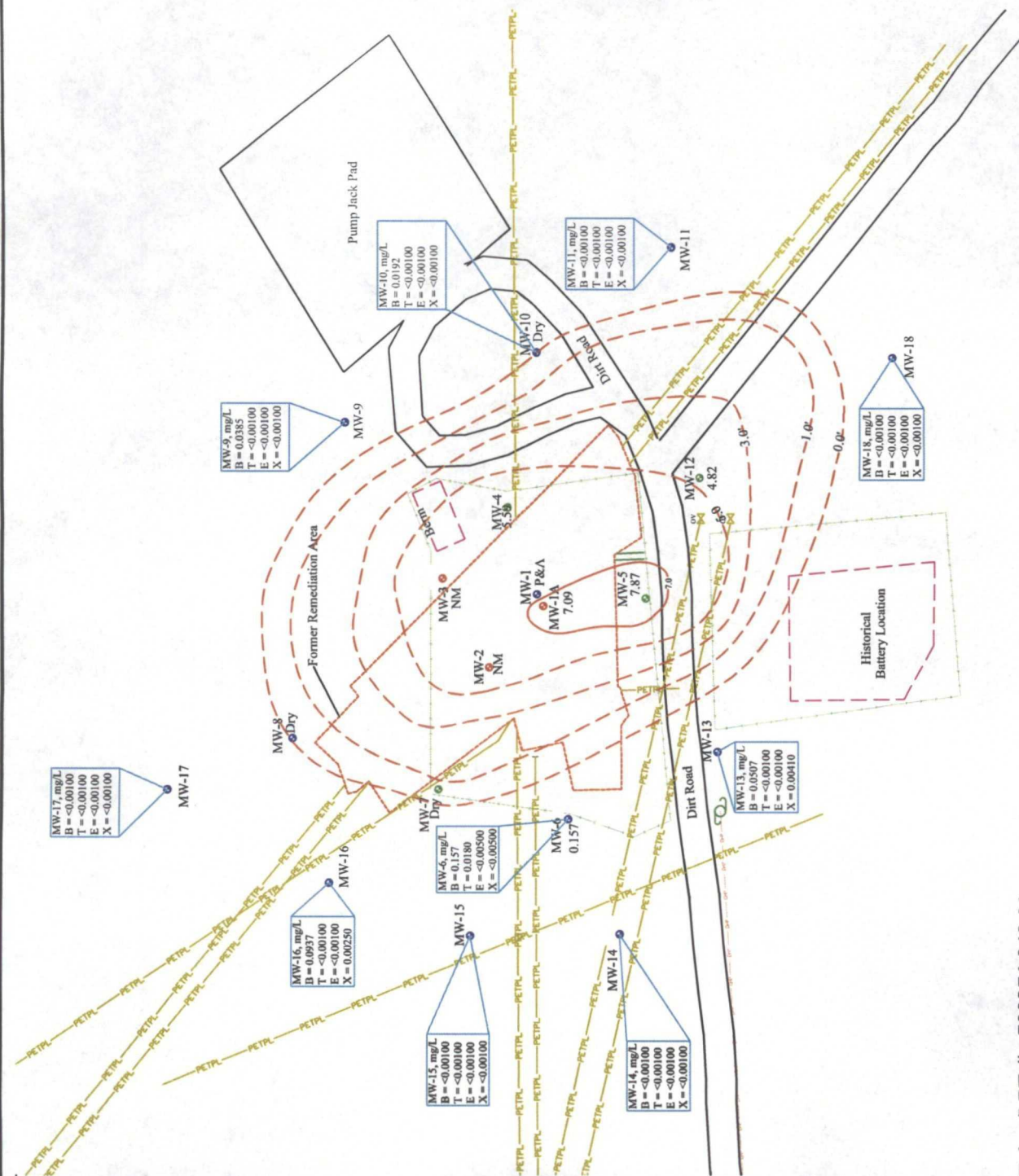
Figure 3b - PSH Thickness & Groundwater Concentration Map. (06/09/2010)



0 50 100
Scale in Feet

Legend

- Monitor Well
- Monitor Well with Skimmer
- Monitor Well with total fluid pump
- Pipeline
- Valve
- Fence line
- Contour Line
- PSH Plume Thickness



Talon/LPE # : 700376.049.01



Date: 12/29/2010

Scale: 1" = 100'

Drawn By: TJS

C.S. Cayler

SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)

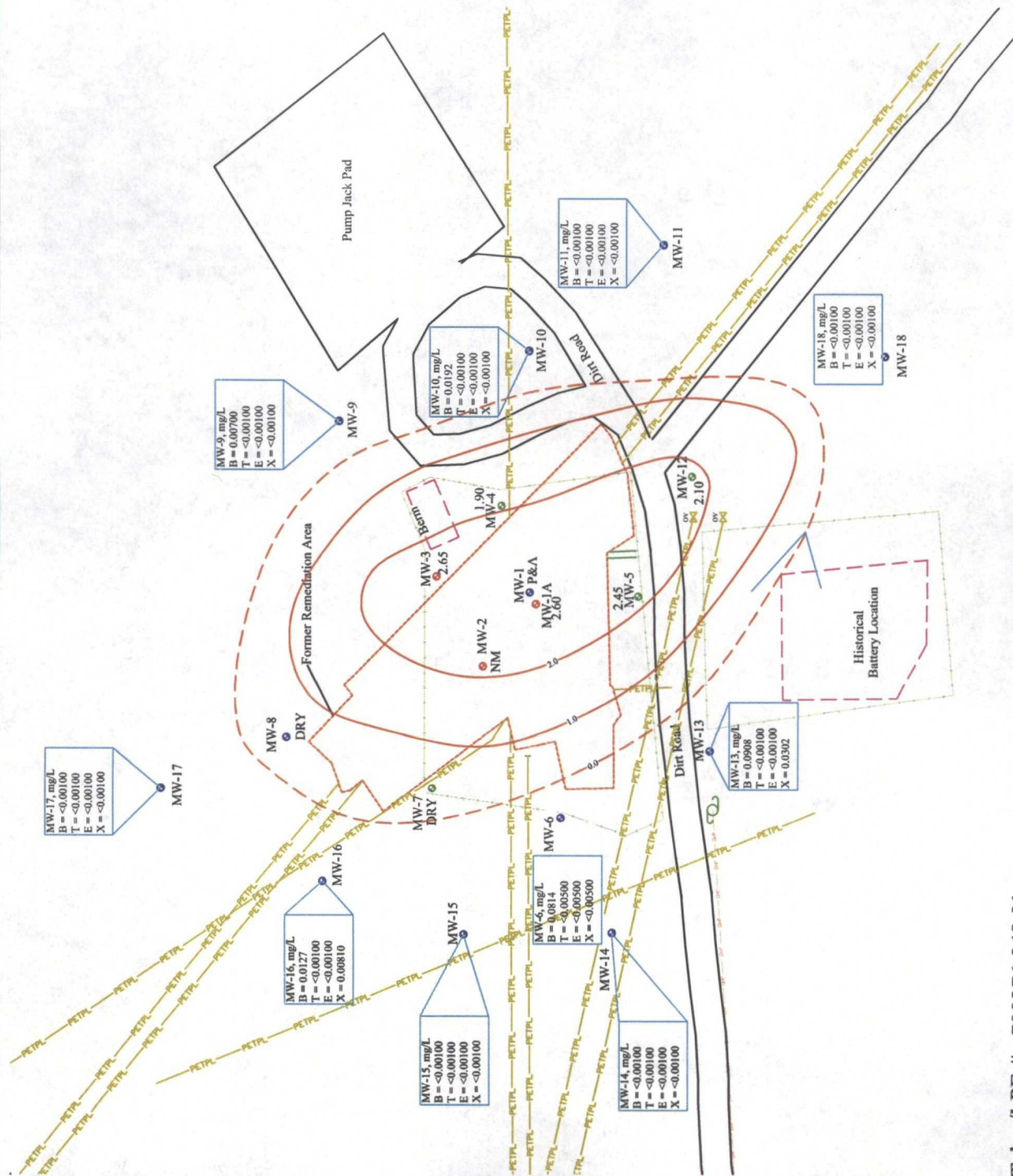
Lea County, New Mexico

Figure 3c - PSH Thickness & Groundwater Concentration Map, (09/22/2010)



0 50 100
Scale in Feet

- Legend**
- Monitor Well
 - Monitor Well with Skimmer
 - Monitor Well with total fluid pump
 - Pipeline
 - Valve
 - Fence line
 - Contour Line
 - PSH Plume Thickness



Talon/LPE # : 700376.049.01



Date: 12/29/2010

Scale: 1" = 100'

Drawn By: TJS

C.S. Cayler

SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)

Lea County, New Mexico

Figure 3d - PSH Thickness & Groundwater Concentration Map, (12/17/2010)

APPENDIX B

Tables

Table 1 – Summary of Historical Fluid Level Measurements

Table 2 – Summary of Groundwater Analytical Results



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-1	10/17/02	WELL INSTALLED 17-Oct-02				
MW-1	03/07/03	3,803.97	72.28	84.20	11.92	3,729.72
MW-1	03/11/03		72.30	84.19	11.89	3,729.71
MW-1	03/17/03		72.33	84.25	11.92	3,729.67
MW-1	03/22/03		72.35	84.24	11.89	3,729.66
MW-1	05/06/03		71.55	83.11	11.56	3,730.51
MW-1	05/07/03		71.58	83.05	11.47	3,730.50
MW-1	05/08/03		71.55	83.03	11.48	3,730.53
MW-1	05/09/03		71.53	83.00	11.47	3,730.55
MW-1	05/15/03		71.57	83.01	11.44	3,730.51
MW-1	05/16/03		71.59	82.90	11.31	3,730.51
MW-1	05/28/03		71.65	82.50	10.85	3,730.53
MW-1	06/11/03		71.75	82.57	10.82	3,730.43
MW-1	08/14/03		63.45	73.41	9.96	3,738.88
MW-1	01/02/04		64.31	73.63	9.32	3,738.12
MW-1	04/12/04		64.74	73.74	9.00	3,737.75
MW-1	06/01/04		64.87	73.52	8.65	3,737.67
MW-1	06/21/04		65.04	73.49	8.45	3,737.54
MW-1	07/14/04		67.52	75.92	8.40	3,735.06
MW-1	10/17/04		68.38	73.28	4.90	3,734.78
MW-1	10/29/04		68.53	73.45	4.92	3,734.63
MW-1	03/31/05		68.23	73.00	4.77	3,734.95
MW-1	04/25/05		68.56	72.68	4.12	3,734.73
MW-1	05/31/05		68.57	72.61	4.04	3,734.73
MW-1	06/29/05		68.88	73.72	4.84	3,734.29
MW-1	09/15/05		69.79	73.63	3.84	3,733.55
MW-1	11/14/05		70.44	73.26	2.82	3,733.06
MW-1	01/23/06		70.72	73.80	3.08	3,732.74
MW-1	03/01/06		70.41	73.59	3.18	3,733.04
MW-1	05/25/06		71.05	73.20	2.15	3,732.57
MW-1	08/14/06		72.46	73.76	1.30	3,731.30
MW-1	11/29/06		73.31	73.69	0.38	3,730.60



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-1	01/11/07		73.31	73.69	0.38	3,730.60
MW-1	02/08/07		73.38	73.73	0.35	3,730.53
MW-1	04/03/07		73.86	82.21	8.35	3,728.73
MW-1	04/11/07		74.06	82.27	8.21	3,728.56
MW-1	04/17/07		74.21	82.63	8.42	3,728.37
MW-1	05/14/07		74.06	82.00	7.94	3,728.60
MW-1	06/26/07		73.80	NA		NA
MW-1	06/28/07		DRY			
MW-1	09/14/07		DRY			
MW-1	09/26/07		DRY			
MW-1	10/05/07		DRY			
MW-1	10/09/07		DRY			
MW-1	10/19/07		DRY			
MW-1	10/24/07		DRY			
MW-1	10/31/07		DRY			
MW-1	11/28/07		DRY			
MW-1	12/03/07		DRY			
MW-1	01/03/08		DRY			
MW-1	01/08/08		DRY			
MW-1	01/14/08		DRY			
MW-1	01/23/08		DRY			
MW-1	01/28/08		DRY			
MW-1	02/11/08		DRY			
MW-1	03/12/08		DRY			
MW-1	03/26/08		DRY			
MW-1	04/01/08		DRY			
MW-1	08/13/08		DRY			
MW-1	09/18/08	WELL PLUGGED 9/18/08				
MW-1A	09/18/08	WELL INSTALLED 9/18/08				
MW-1A	09/23/08	3,810.02	82.40	89.71	7.31	3,726.41
MW-1A	12/04/08		82.50	89.55	7.05	3,726.36
MW-1A	01/21/09		82.11	89.61	7.50	3,726.67



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-1A	02/18/09	3,810.14	82.34	89.70	7.36	3,726.59
MW-1A	04/06/09		82.76	90.26	7.50	3,726.14
MW-1A	06/10/09		83.22	90.54	7.32	3,725.71
MW-1A	08/25/09	Well Not Gauged Due to Total Fluid Pump				
MW-1A	12/10/09		84.68	91.52	6.84	3,724.33
MW-1A	01/08/10		84.65	90.80	6.15	3,724.48
MW-1A	02/18/10		85.29	87.95	2.66	3,724.41
MW-1A	06/09/10		84.95	93.02	8.07	3,723.86
MW-1A	09/21/10		86.04	93.13	7.09	3,722.93
MW1A	12/17/10		88.92	91.52	2.60	3,720.79
MW-2	05/28/04	WELL INSTALLED 5/28/04				
MW-2	06/01/04	3,803.93	67.17	77.76	10.59	3,735.01
MW-2	06/21/04		67.27	77.93	10.66	3,734.90
MW-2	07/14/04		67.38	78.09	10.71	3,734.78
MW-2	10/16/04		68.79	74.04	5.25	3,734.27
MW-2	10/29/04		67.97	77.70	9.73	3,734.35
MW-2	03/31/05		68.23	78.50	10.27	3,734.01
MW-2	04/25/05		68.37	77.03	8.66	3,734.13
MW-2	05/31/05		68.46	76.97	8.51	3,734.07
MW-2	06/29/05		69.09	76.12	7.03	3,733.68
MW-2	09/15/05		69.75	79.14	9.39	3,732.63
MW-2	11/14/05		70.66	78.44	7.78	3,731.99
MW-2	01/23/06		70.95	78.27	7.32	3,731.77
MW-2	03/01/06		70.53	77.41	6.88	3,732.26
MW-2	05/25/06		72.19	75.49	3.30	3,731.20
MW-2	08/14/06		73.08	78.31	5.23	3,729.99
MW-2	11/29/06		74.09	78.20	4.11	3,729.16
MW-2	12/12/06		74.53	77.57	3.04	3,728.90
MW-2	01/11/07		74.22	78.81	4.59	3,728.95
MW-2	02/08/07		75.11	75.18	0.07	3,728.81
MW-2	04/03/07		73.95	82.11	8.16	3,728.63



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-2	04/11/07		74.02	82.30	8.28	3,728.54
MW-2	04/17/07		74.02	82.41	8.39	3,728.53
MW-2	05/14/07		74.03	82.55	8.52	3,728.49
MW-2	06/26/07		74.20	82.64	8.44	3,728.34
MW-2	06/28/07		74.36	82.48	8.12	3,728.23
MW-2	08/13/07		74.71	81.91	7.20	3,728.03
MW-2	08/17/07		75.66	79.30	3.64	3,727.67
MW-2	08/21/07		NA	76.19		3,727.74
MW-2	08/28/07		75.84	78.91	3.07	3,727.58
MW-2	09/14/07		75.63	79.29	3.66	3,727.70
MW-2	09/26/07		74.88	82.41	7.53	3,727.81
MW-2	10/05/07		74.85	82.70	7.85	3,727.78
MW-2	10/08/07		74.87	82.71	7.84	3,727.77
MW-2	10/19/07		74.87	82.96	8.09	3,727.73
MW-2	10/24/07		74.87	83.04	8.17	3,727.71
MW-2	10/31/07		74.88	83.11	8.23	3,727.69
MW-2	11/12/07		74.82	83.19	8.37	3,727.73
MW-2	11/28/07		74.89	83.27	8.38	3,727.66
MW-2	12/03/07		74.83	83.20	8.37	3,727.72
MW-2	01/03/08		75.32	83.50	8.18	3,727.26
MW-2	01/08/08		74.76	82.25	7.49	3,727.93
MW-2	01/14/08		75.49	83.23	7.74	3,727.16
MW-2	01/23/08		75.45	83.43	7.98	3,727.16
MW-2	01/28/08		75.38	83.47	8.09	3,727.22
MW-2	02/11/08		74.94	83.02	8.08	3,727.66
MW-2	03/12/08		75.40	83.54	8.14	3,727.19
MW-2	03/26/08		75.14	83.99	8.85	3,727.33
MW-2	04/01/08		76.19	83.34	7.15	3,726.56
MW-2	04/11/08		76.73	80.62	3.89	3,726.56
MW-2	04/15/08		76.33	79.08	2.75	3,727.15
MW-2	04/22/08		75.66	79.07	3.41	3,727.71
MW-2	04/28/08		76.00	83.17	7.17	3,726.75



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-2	05/06/08		75.68	79.12	3.44	3,727.68
MW-2	05/16/08		75.40	83.02	7.62	3,727.27
MW-2	05/22/08		75.61	82.32	6.71	3,727.21
MW-2	07/25/08		79.90	87.72	7.82	3,722.74
MW-2	08/13/08		80.21	88.82	8.61	3,722.30
MW-2	09/23/08	3,807.67	79.34	85.88	6.54	3,727.25
MW-2	10/15/08			79.89	79.89	3,794.49
MW-2	12/04/08		79.68	84.90	5.22	3,727.13
MW-2	01/21/09		74.92	79.30	4.38	3,732.03
MW-2	02/18/09	3,807.38	79.99	86.26	6.27	3,726.36
MW-2	04/06/09		80.46	86.28	5.82	3,725.96
MW-2	06/10/09		81.05	85.86	4.81	3,725.54
MW-2	08/25/09		82.45	85.30	2.85	3,724.46
MW-2	12/10/09		82.74	86.22	3.48	3,724.07
MW-2	01/08/10		81.79	86.25	4.46	3,724.85
MW-2	02/18/10		81.50	87.12	5.62	3,724.95
MW-2	06/09/10		88.21	92.16	3.95	3,718.52
MW-2	09/21/10		NM - Pump Stuck			
MW-2	12/17/10		NM - Pump Stuck			
MW-3	05/31/04	WELL INSTALLED 31-May-04				
MW-3	06/21/04	3,810.20	75.51	75.51	0.00	3,734.69
MW-3	07/14/04		74.39	81.31	6.92	3,734.67
MW-3	08/26/04		74.75	84.31	9.56	3,733.87
MW-3	10/16/04		75.53	77.55	2.02	3,734.34
MW-3	10/29/04		75.45	79.00	3.55	3,734.16
MW-3	03/31/05		74.65	83.60	8.95	3,734.07
MW-3	04/25/05		74.81	82.74	7.93	3,734.08
MW-3	05/31/05		75.00	82.16	7.16	3,734.02
MW-3	06/29/05		75.83	80.44	4.61	3,733.61
MW-3	09/15/05		76.09	85.47	9.38	3,732.56
MW-3	11/14/05		77.81	81.11	3.30	3,731.85



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-3	01/23/06		77.78	81.74	3.96	3,731.77
MW-3	03/01/06		77.43	81.49	4.06	3,732.10
MW-3	05/25/06		78.49	81.15	2.66	3,731.27
MW-3	08/14/06		79.51	84.36	4.85	3,729.89
MW-3	01/11/07		80.78	84.05	3.27	3,728.88
MW-3	02/08/07		83.65	83.66	0.01	3,726.55
MW-3	04/03/07		80.25	88.51	8.26	3,728.59
MW-3	04/11/07		80.69	88.97	8.28	3,728.14
MW-3	04/17/07		80.38	88.78	8.40	3,728.43
MW-3	05/14/07		80.43	89.56	9.13	3,728.26
MW-3	06/26/07		81.74	89.12	7.38	3,727.24
MW-3	06/28/07		80.69	89.05	8.36	3,728.13
MW-3	08/13/07		81.08	89.43	8.35	3,727.74
MW-3	08/17/07		82.05	83.50	1.45	3,727.91
MW-3	08/21/07		82.65	82.68	0.03	3,727.55
MW-3	08/28/07		81.51	88.44	6.93	3,727.55
MW-3	09/14/07		81.42	86.89	5.47	3,727.88
MW-3	09/26/07		81.22	88.92	7.70	3,727.71
MW-3	10/05/07		81.14	88.99	7.85	3,727.76
MW-3	10/08/07		81.14	89.00	7.86	3,727.76
MW-3	10/19/07		81.23	89.39	8.16	3,727.62
MW-3	10/24/07		81.24	89.35	8.11	3,727.62
MW-3	10/31/07		81.24	89.47	8.23	3,727.60
MW-3	11/12/07		81.25	89.39	8.14	3,727.61
MW-3	11/28/07		81.26	89.44	8.18	3,727.59
MW-3	12/03/07		81.26	89.36	8.10	3,727.60
MW-3	01/03/08		81.17	89.41	8.24	3,727.67
MW-3	01/08/08		81.11	89.05	7.94	3,727.78
MW-3	01/14/08		81.62	88.39	6.77	3,727.46
MW-3	01/23/08		80.84	87.89	7.05	3,728.20
MW-3	01/28/08		80.31	88.20	7.89	3,728.59
MW-3	02/11/08		81.92	88.49	6.57	3,727.20



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-3	03/12/08		81.43	87.43	6.00	3,727.78
MW-3	03/26/08		80.57	88.54	7.97	3,728.31
MW-3	04/01/08		82.06	87.81	5.75	3,727.19
MW-3	04/11/08		81.90	87.81	5.91	3,727.32
MW-3	04/15/08		82.04	87.85	5.81	3,727.20
MW-3	04/22/08		82.01	87.90	5.89	3,727.22
MW-3	04/28/08		82.11	87.24	5.13	3,727.24
MW-3	05/06/08		82.00	87.94	5.94	3,727.22
MW-3	05/16/08		82.24	88.07	5.83	3,727.00
MW-3	05/22/08		82.94	89.22	6.28	3,726.22
MW-3	06/19/08		83.09	85.71	2.62	3,726.68
MW-3	07/25/08		83.35	88.33	4.98	3,726.03
MW-3	08/13/08		83.21	89.65	6.44	3,725.93
MW-3	09/23/08	3,810.35	83.28	86.97	3.69	3,726.46
MW-3	10/15/08		84.04	84.22	0.18	3,726.28
MW-3	12/04/08		83.61	85.01	1.40	3,726.51
MW-3	01/21/09		82.68	87.80	5.12	3,726.83
MW-3	02/18/09	3,810.36	84.82	88.49	3.67	3,724.93
MW-3	04/06/09		83.33	89.47	6.14	3,726.02
MW-3	06/10/09		83.58	89.41	5.83	3,725.82
MW-3	08/25/09		84.35	90.90	6.55	3,724.93
MW-3	12/10/09		85.04	92.01	6.97	3,724.17
MW-3	01/08/10		84.83	91.51	6.68	3,724.43
MW-3	02/18/10		84.81	91.41	6.60	3,724.46
MW-3	06/09/10		85.22	91.78	6.56	3,724.06
MW-3	09/21/10		NM - Pump Stuck			
MW-3	12/17/10		86.56	89.21	2.65	3,723.36
MW-4	06/01/04	WELL INSTALLED 01-Jun-04				
MW-4	06/21/04	3,810.70	76.04	76.04		3,734.66
MW-4	07/14/04		74.51	83.91	9.40	3,734.64
MW-4	08/26/04		74.21	83.61	9.40	3,734.94



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-4	10/16/04		75.77	80.56	4.79	3,734.14
MW-4	10/17/04		75.76	80.96	5.20	3,734.08
MW-4	10/29/04		75.56	81.42	5.86	3,734.17
MW-4	03/31/05		73.51	81.95	8.44	3,735.80
MW-4	04/25/05		75.53	82.62	7.09	3,734.00
MW-4	05/31/05		75.55	82.86	7.31	3,733.94
MW-4	06/29/05		75.96	83.51	7.55	3,733.49
MW-4	09/15/05		76.71	86.23	9.52	3,732.42
MW-4	11/14/05		77.64	85.38	7.74	3,731.78
MW-4	01/23/06		77.79	84.93	7.14	3,731.73
MW-4	03/01/06		77.48	84.12	6.64	3,732.12
MW-4	05/25/06		78.28	85.22	6.94	3,731.27
MW-4	08/14/06		79.78	86.67	6.89	3,729.78
MW-4	11/29/06		80.29	85.15	4.86	3,729.61
MW-4	12/12/06		81.71	86.01	4.30	3,728.28
MW-4	01/11/07		80.03	82.77	2.74	3,730.22
MW-4	02/08/07		81.28	82.70	1.42	3,729.19
MW-4	04/03/07		80.78	89.44	8.66	3,728.49
MW-4	04/11/07		80.85	89.55	8.70	3,728.41
MW-4	04/17/07		80.92	89.05	8.13	3,728.44
MW-4	05/14/07		80.96	89.68	8.72	3,728.30
MW-4	06/26/07		81.41	89.82	8.41	3,727.90
MW-4	06/28/07		81.28	89.71	8.43	3,728.03
MW-4	08/13/07		81.76	89.92	8.16	3,727.59
MW-4	08/17/07		80.36	87.55	7.19	3,729.15
MW-4	08/21/07		82.01	89.41	7.40	3,727.47
MW-4	08/28/07		NA	79.50		3,731.20
MW-4	09/14/07		81.76	89.85	8.09	3,727.61
MW-4	09/26/07		81.73	88.89	7.16	3,727.79
MW-4	10/05/07		81.66	89.80	8.14	3,727.70
MW-4	10/08/07		81.65	89.78	8.13	3,727.71
MW-4	10/19/07		81.80	90.05	8.25	3,727.54



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-4	10/24/07		81.80	89.99	8.19	3,727.55
MW-4	10/31/07		81.82	90.07	8.25	3,727.52
MW-4	11/12/07		82.02	89.84	7.82	3,727.39
MW-4	11/28/07		81.93	89.82	7.89	3,727.47
MW-4	12/03/07		81.91	89.72	7.81	3,727.50
MW-4	01/03/08		81.66	89.19	7.53	3,727.80
MW-4	01/08/08		81.70	89.31	7.61	3,727.74
MW-4	01/14/08		81.98	88.87	6.89	3,727.58
MW-4	01/23/08		82.17	87.76	5.59	3,727.61
MW-4	01/28/08		81.77	89.17	7.40	3,727.71
MW-4	02/11/08		81.29	88.75	7.46	3,728.18
MW-4	03/12/08		81.86	88.79	6.93	3,727.70
MW-4	03/26/08		82.67	86.36	3.69	3,727.42
MW-4	04/01/08		82.56	88.83	6.27	3,727.11
MW-4	04/11/08		82.49	88.94	6.45	3,727.15
MW-4	04/15/08		82.31	89.90	7.59	3,727.14
MW-4	04/22/08		82.36	89.26	6.90	3,727.20
MW-4	05/06/08		83.98	90.27	6.29	3,725.68
MW-4	05/16/08		82.89	90.01	7.12	3,726.64
MW-4	05/22/08		82.39	90.19	7.80	3,727.02
MW-4	06/19/08		82.78	90.45	7.67	3,726.65
MW-4	07/25/08		83.71	91.11	7.40	3,725.77
MW-4	08/13/08		83.60	91.07	7.47	3,725.87
MW-4	09/23/08	3,810.82	83.36	90.47	7.11	3,726.29
MW-4	10/15/08		83.78	88.43	4.65	3,726.27
MW-4	12/04/08		83.32	89.40	6.08	3,726.50
MW-4	01/21/09		82.79	90.31	7.52	3,726.79
MW-4	02/18/09	3,810.81	83.05	90.35	7.30	3,726.56
MW-4	04/06/09		84.24	91.58	7.34	3,725.36
MW-4	06/10/09		83.88	91.42	7.54	3,725.69
MW-4	08/25/09		84.90	92.00	7.10	3,724.74
MW-4	12/10/09		85.30	92.34	7.04	3,724.35



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-4	01/08/10		85.47	92.15	6.68	3,724.24
MW-4	02/18/10		92.31	95.42	3.11	3,717.99
MW-4	06/09/10		86.38	90.06	3.68	3,723.82
MW-4	09/21/10		87.13	92.72	5.59	3,722.76
MW-4	12/17/10		87.32	89.22	1.90	3,723.18
MW-5	06/05/04		WELL INSTALLED 05-Jun-04			
MW-5	06/21/04	3,809.05	--	74.42		3,734.63
MW-5	07/14/04		--	74.53		3,734.52
MW-5	10/29/04		--	75.00		3,734.05
MW-5	11/19/04		--	75.10		3,733.95
MW-5	03/31/05		--	75.18		3,733.87
MW-5	04/25/05		--	75.19		3,733.86
MW-5	05/12/05		--	75.22		3,733.83
MW-5	05/31/05		--	75.25		3,733.80
MW-5	06/29/05		--	75.67		3,733.38
MW-5	08/22/05		--	76.64		3,732.41
MW-5	09/15/05		--	76.75		3,732.30
MW-5	11/14/05		--	77.39		3,731.66
MW-5	01/23/06		77.21	79.19	1.98	3,732.48
MW-5	03/01/06		76.59	79.18	2.59	3,733.00
MW-5	05/25/06		77.41	79.93	2.52	3,732.19
MW-5	08/14/06		78.99	80.63	1.64	3,730.76
MW-5	11/29/06		78.91	85.95	7.04	3,729.95
MW-5	01/11/07		78.85	86.30	7.45	3,729.94
MW-5	02/08/07		78.82	86.29	7.47	3,729.97
MW-5	02/20/07		79.22	85.66	6.44	3,729.74
MW-5	03/06/07		79.15	86.07	6.92	3,729.73
MW-5	03/14/07		78.68	85.60	6.92	3,730.20
MW-5	03/27/07		79.64	86.03	6.39	3,729.33
MW-5	03/29/07		79.36	86.25	6.89	3,729.52
MW-5	04/03/07		79.38	86.71	7.33	3,729.43



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-5	04/11/07		79.91	87.02	7.11	3,728.94
MW-5	04/17/07		79.52	88.90	9.38	3,728.95
MW-5	05/24/07		79.54	86.90	7.36	3,729.27
MW-5	06/26/07		79.94	87.32	7.38	3,728.86
MW-5	06/28/07		79.84	87.25	7.41	3,728.96
MW-5	08/13/07		80.26	81.66	1.40	3,729.53
MW-5	08/21/07		80.39	87.63	7.24	3,728.44
MW-5	08/28/07		80.49	87.64	7.15	3,728.35
MW-5	09/14/07		80.32	87.59	7.27	3,728.50
MW-5	09/26/07		81.72	87.66	5.94	3,727.32
MW-5	10/05/07		80.22	87.51	7.29	3,728.60
MW-5	10/08/07		80.20	87.52	7.32	3,728.61
MW-5	10/19/07		80.44	87.66	7.22	3,728.39
MW-5	10/24/07		80.36	87.73	7.37	3,728.44
MW-5	10/31/07		80.37	87.85	7.48	3,728.42
MW-5	11/12/07		80.36	87.51	7.15	3,728.48
MW-5	12/28/07		80.83	87.61	6.78	3,728.07
MW-5	12/03/07		80.34	87.35	7.01	3,728.52
MW-5	01/03/08		80.17	86.72	6.55	3,728.77
MW-5	01/08/08		80.17	86.85	6.68	3,728.75
MW-5	01/14/08		80.32	86.74	6.42	3,728.64
MW-5	01/23/08		82.34	85.78	3.44	3,727.11
MW-5	01/28/08		80.25	87.03	6.78	3,728.65
MW-5	02/11/08		80.26	86.34	6.08	3,728.76
MW-5	03/12/08		80.28	86.93	6.65	3,728.64
MW-5	03/26/08		81.23	84.33	3.10	3,728.28
MW-5	04/01/08		81.38	84.40	3.02	3,728.14
MW-5	04/11/08		81.79	83.35	1.56	3,727.97
MW-5	04/15/08		81.77	83.38	1.61	3,727.98
MW-5	04/22/08		81.50	82.54	1.04	3,728.35
MW-5	04/28/08		81.87	82.13	0.26	3,728.11
MW-5	05/06/08		81.51	82.56	1.05	3,728.34



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-5	05/16/08		82.15	82.56	0.41	3,727.80
MW-5	05/22/08		81.92	83.49	1.57	3,727.84
MW-5	06/19/08		81.24	88.59	7.35	3,727.57
MW-5	07/25/08		81.76	88.92	7.16	3,727.08
MW-5	08/13/08		82.07	89.27	7.20	3,726.76
MW-5	09/23/08	3,809.21	82.61	83.73	1.12	3,726.42
MW-5	10/15/08		82.98	83.20	0.22	3,726.19
MW-5	12/04/08		82.77	83.31	0.54	3,726.35
MW-5	01/21/09		81.48	87.40	5.92	3,726.75
MW-5	02/18/09	3,809.29	81.90	86.67	4.77	3,726.60
MW-5	04/06/09		82.40	86.98	4.58	3,726.13
MW-5	06/10/09		83.41	84.72	1.31	3,725.66
MW-5	08/25/09		84.03	87.40	3.37	3,724.70
MW-5	12/10/09		83.75	90.78	7.03	3,724.38
MW-5	01/08/10		83.69	90.13	6.44	3,724.54
MW-5	02/18/10		83.69	90.15	6.46	3,724.53
MW-5	06/09/10		85.02	87.17	2.15	3,723.92
MW-5	09/21/10		84.95	92.82	7.87	3,723.04
MW-5	12/17/10		85.42	87.87	2.45	3,723.47
MW-6	10/21/04	WELL INSTALLED 21-Oct-04 (TD-86.70)				
MW-6	10/27/04	3,809.17		75.13		3,734.04
MW-6	10/29/04			75.13		3,734.04
MW-6	11/19/04			75.23		3,733.94
MW-6	03/31/05			75.33		3,733.84
MW-6	04/25/05			75.27		3,733.90
MW-6	05/12/05			75.30		3,733.87
MW-6	05/31/05			75.33		3,733.84
MW-6	06/29/05			75.68		3,733.49
MW-6	08/22/05			76.63		3,732.54
MW-6	09/15/05			76.80		3,732.37
MW-6	11/14/05			77.41		3,731.76



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-6	01/23/06			77.60		3,731.57
MW-6	03/01/06			77.01		3,732.16
MW-6	05/25/06			77.92		3,731.25
MW-6	08/14/06			79.18		3,729.99
MW-6	11/29/06			80.12		3,729.05
MW-6	12/12/06			80.19		3,728.98
MW-6	01/11/07			80.20		3,728.97
MW-6	02/08/07			79.99		3,729.18
MW-6	02/20/07			80.36		3,728.81
MW-6	03/06/07			80.40		3,728.77
MW-6	03/14/07			79.92		3,729.25
MW-6	03/27/07			80.62		3,728.55
MW-6	03/29/07			80.34		3,728.83
MW-6	04/03/07			80.68		3,728.49
MW-6	04/11/07			81.03		3,728.14
MW-6	04/17/07			80.82		3,728.35
MW-6	06/13/07			80.88		3,728.29
MW-6	06/26/07			81.04		3,728.13
MW-6	09/14/07			81.62		3,727.55
MW-6	10/19/07			81.64		3,727.53
MW-6	12/03/07			81.56		3,727.61
MW-6	01/08/08			81.78		3,727.39
MW-6	01/28/08			81.39		3,727.78
MW-6	03/12/08			81.39		3,727.78
MW-6	04/22/08			84.48		3,724.69
MW-6	06/19/08			82.10		3,727.07
MW-6	08/13/08			82.67		3,726.50
MW-6	10/15/08			82.99		3,726.18
MW-6	12/04/08			82.88		3,726.29
MW-6	01/21/09			82.59		3,726.58
MW-6	02/18/09	3,809.33		82.78		3,726.55
MW-6	04/06/09			83.17		3,726.16



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-6	06/10/09			83.64		3,725.69
MW-6	08/25/09			84.51		3,724.82
MW-6	12/10/09			84.77		3,724.56
MW-6	01/08/10			84.59		3,724.74
MW-6	02/18/10			84.49		3,724.84
MW-6	06/09/10			84.98		3,724.35
MW-6	09/21/10			86.25		3,723.08
MW-6	12/17/10			85.92		3,723.41
MW-7	10/21/04	WELL INSTALLED 21-Oct-04 (TD-84.71)				
MW-7	10/27/04	3,809.95	75.82	76.05	0.23	3,734.09
MW-7	10/29/04		75.82	76.05	0.23	3,734.09
MW-7	11/19/04		75.21	79.14	3.93	3,734.09
MW-7	03/31/05		75.22	79.18	3.96	3,734.08
MW-7	04/25/05		74.37	82.84	8.47	3,734.18
MW-7	05/31/05		75.41	78.75	3.34	3,733.99
MW-7	06/29/05		74.86	83.31	8.45	3,733.70
MW-7	09/15/05		75.92	83.58	7.66	3,732.77
MW-7	11/14/05		76.75	83.17	6.42	3,732.14
MW-7	01/23/06		77.16	83.54	6.38	3,731.74
MW-7	03/01/06		76.71	82.60	5.89	3,732.27
MW-7	05/25/06		77.71	79.37	1.66	3,731.97
MW-7	08/14/06		78.61	83.34	4.73	3,730.56
MW-7	11/29/06		79.51	83.15	3.64	3,729.84
MW-7	12/12/06		79.95	83.00	3.05	3,729.50
MW-7	01/11/07		79.77	84.41	4.64	3,729.41
MW-7	02/08/07		79.63	84.15	4.52	3,729.57
MW-7	04/03/07		80.09	84.18	4.09	3,729.19
MW-7	04/11/07		80.73	84.91	4.18	3,728.53
MW-7	04/17/07		80.74	84.96	4.22	3,728.51
MW-7	05/14/07		80.30	84.42	4.12	3,728.97
MW-7	06/26/07		80.70	82.68	1.98	3,728.92



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-7	06/28/07		80.52	83.66	3.14	3,728.91
MW-7	08/13/07		81.22	83.66	2.44	3,728.33
MW-7	08/21/07		81.37	83.44	2.07	3,728.24
MW-7	09/14/07		81.01	84.25	3.24	3,728.41
MW-7	09/26/07		80.97	84.30	3.33	3,728.43
MW-7	10/05/07		80.92	84.33	3.41	3,728.47
MW-7	10/08/07		80.92	84.32	3.40	3,728.47
MW-7	10/19/07		81.04	84.30	3.26	3,728.37
MW-7	10/24/07		81.05	84.30	3.25	3,728.36
MW-7	10/31/07		81.08	84.34	3.26	3,728.33
MW-7	11/12/07		81.02	84.35	3.33	3,728.45
MW-7	11/28/07		80.89	NA		
MW-7	12/03/07		80.98	NA		
MW-7	01/03/08		79.83	NA		
MW-7	01/08/08		80.92	84.40*		
MW-7	01/14/08		81.34	84.37*		
MW-7	03/12/08		81.20	84.39*		
MW-7	03/26/08		81.54	84.45*		
MW-7	04/11/07		81.40	84.49	3.09	3,728.04
MW-7	04/15/07		82.67	83.16	0.49	3,727.20
MW-7	04/22/07		82.66	82.81	0.15	3,727.27
MW-7	04/28/07		82.75	83.14	0.39	3,727.14
MW-7	05/06/07		82.39	83.29	0.90	3,727.41
MW-7	05/16/07		83.03	83.26	0.23	3,726.88
MW-7	05/22/08		81.76	83.84	2.08	3,727.85
MW-7	06/19/08		81.91	84.64	2.73	3,727.59
MW-7	07/25/08		82.67	84.87	2.20	3,726.92
MW-7	08/13/08		82.76	84.95*		
MW-7	09/23/08		82.54	84.29*		
MW-7	10/15/08		83.48	84.29	0.81	3,726.34
MW-7	12/04/08		82.77	84.29	1.52	3,726.93
MW-7	01/21/09		82.59	84.27	1.68	3,727.08



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-7	02/18/09	3,810.08	82.41	84.29	1.88	3,727.36
MW-7	04/06/09		82.92	84.29	1.37	3,726.93
MW-7	06/10/09		83.00	*84.15		
MW-7	08/25/09		83.83	86.70	2.87	3,725.78
MW-7	12/10/09		84.53	84.58	0.05	3,725.54
MW-7	01/08/10		84.25	84.60	0.35	3,725.77
MW-7	02/18/10		84.28	84.71	0.43	3,725.73
MW-7	06/09/10		ND	84.71	0.00	3,725.37
MW-7	09/21/10		ND	DRY		
MW-7	12/17/10		ND	DRY		
MW-8	10/20/04	WELL INSTALLED 20-Oct-04 (TD-84.55)				
MW-8	10/27/04	3,810.29	--	76.20		3,734.09
MW-8	10/29/04		--	76.20		3,734.09
MW-8	11/19/04		--	76.26		3,734.03
MW-8	03/31/05		--	76.30		3,733.99
MW-8	04/25/05		--	76.29		3,734.00
MW-8	05/12/05		--	76.32		3,733.97
MW-8	05/31/05		--	76.34		3,733.95
MW-8	06/29/05		--	76.62		3,733.67
MW-8	08/22/05		77.42	78.08	0.66	3,732.76
MW-8	11/14/05		78.16	79.40	1.24	3,731.93
MW-8	01/23/06		78.25	80.13	1.88	3,731.73
MW-8	03/01/06		77.60	80.55	2.95	3,732.20
MW-8	05/25/06		78.43	81.31	2.88	3,731.38
MW-8	08/14/06		79.63	82.84	3.21	3,730.13
MW-8	11/29/06		80.50	83.79	3.29	3,729.25
MW-8	12/12/06		80.59	83.90	3.31	3,729.15
MW-8	01/11/07		80.63	83.88	3.25	3,729.12
MW-8	02/08/07		80.66	83.94	3.28	3,729.09
MW-8	02/20/07		80.81	84.07	3.26	3,728.94
MW-8	03/06/07		80.88	84.11	3.23	3,728.88



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-8	03/14/07		80.09	83.26	3.17	3,729.68
MW-8	03/27/07		80.13	83.24	3.11	3,729.65
MW-8	04/03/07		81.10	83.04	1.94	3,728.87
MW-8	04/11/07		81.59	83.49	1.90	3,728.39
MW-8	04/17/07		81.61	83.51	1.90	3,728.37
MW-8	05/24/07		81.33	NA		
MW-8	06/26/07		81.62	NA		
MW-8	06/28/07		81.52	NA		
MW-8	08/13/07		81.86	NA		
MW-8	08/21/07		81.96	NA		
MW-8	08/28/07		82.02	NA		
MW-8	09/14/07		82.35	82.36	0.01	3,727.94
MW-8	09/26/07		81.99	83.03	1.04	3,728.13
MW-8	10/05/07		81.97	84.33	2.36	3,727.93
MW-8	10/08/07		81.96	83.63	1.67	3,728.05
MW-8	10/19/07		82.04	82.41	0.37	3,728.19
MW-8	11/12/07		82.04	82.43	0.39	3,728.19
MW-8	11/28/07		82.04	NA		
MW-8	12/03/07		82.11	NA		
MW-8	01/03/08		81.84	NA		
MW-8	01/08/08		81.85	82.56	0.71	
MW-8	01/14/08		82.13	83.33	1.20	3,727.96
MW-8	01/23/08		82.12	83.09	0.97	3,728.01
MW-8	01/28/08		82.04	83.30	1.26	3,728.04
MW-8	02/11/08		81.97	83.34	1.37	3,728.09
MW-8	03/12/08		81.93	83.34	1.41	3,728.13
MW-8	04/01/08		81.95	83.34	1.39	3,728.11
MW-8	04/11/08		82.37	83.94	1.57	3,727.66
MW-8	04/15/08		82.36	83.45	1.09	3,727.75
MW-8	04/22/08		82.33	83.48	1.15	3,727.77
MW-8	04/28/08		82.32	83.46	1.14	3,727.78
MW-8	05/06/08		82.67	82.82	0.15	3,727.60



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-8	05/16/08		82.47	83.46	0.99	3,727.66
MW-8	06/19/08		82.61	NA		
MW-8	08/13/08		83.32	84.96*		
MW-8	09/23/08		82.89	83.29*		
MW-8	10/15/08			DRY		
MW-8	12/04/08		82.95	83.21*		
MW-8	01/21/09		82.66	83.21*		
MW-8	02/18/09	3,810.41	82.76	83.28	0.52	3,727.56
MW-8	04/06/09		83.09	83.25	0.16	3,727.29
MW-8	06/10/09		ND	DRY		
MW-8	08/25/09		ND	DRY		
MW-8	12/10/09		ND	DRY		
MW-8	01/08/10		ND	DRY		
MW-8	02/18/10		ND	DRY		
MW-8	06/09/10		ND	DRY		
MW-8	09/21/10		ND	DRY		
MW-8	12/17/10		ND	DRY		
MW-9	10/19/04	WELL INSTALLED 19-Oct-04 (TD-86.80)				
MW-9	10/27/04	3,809.81		75.85		3,733.96
MW-9	10/29/04			75.85		3,733.96
MW-9	11/19/04			75.91		3,733.90
MW-9	03/31/05			76.97		3,732.84
MW-9	04/25/05			75.91		3,733.90
MW-9	05/12/05			75.96		3,733.85
MW-9	05/31/05			75.99		3,733.82
MW-9	06/29/05			76.34		3,733.47
MW-9	08/22/05			77.31		3,732.50
MW-9	09/15/05			77.48		3,732.33
MW-9	11/14/05			78.15		3,731.66
MW-9	01/23/06			78.33		3,731.48
MW-9	03/01/06			77.78		3,732.03



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-9	05/25/06			78.67		3,731.14
MW-9	08/14/06			79.90		3,729.91
MW-9	11/29/06			80.87		3,728.94
MW-9	12/12/06			80.93		3,728.88
MW-9	01/11/07			90.94		3,718.87
MW-9	02/08/07			80.70		3,729.11
MW-9	02/20/07			81.09		3,728.72
MW-9	03/06/07			81.15		3,728.66
MW-9	03/14/07			80.65		3,729.16
MW-9	03/27/07			81.34		3,728.47
MW-9	03/29/07			81.11		3,728.70
MW-9	04/03/07			81.12		3,728.69
MW-9	04/11/07			81.50		3,728.31
MW-9	04/17/07			81.60		3,728.21
MW-9	05/21/07			81.61		3,728.20
MW-9	06/13/07			81.65		3,728.16
MW-9	06/26/07			81.78		3,728.03
MW-9	09/14/07			82.33		3,727.48
MW-9	10/19/07			82.37		3,727.44
MW-9	12/03/07			82.30		3,727.51
MW-9	01/08/08			82.10		3,727.71
MW-9	01/28/08			82.12		3,727.69
MW-9	03/12/08			82.11		3,727.70
MW-9	04/22/08			82.54		3,727.27
MW-9	05/16/08			82.66		3,727.15
MW-9	06/19/08			82.87		3,726.94
MW-9	08/13/08			83.41		3,726.40
MW-9	10/15/08			83.72		3,726.09
MW-9	12/04/08			83.59		3,726.22
MW-9	01/21/09			83.29		3,726.52
MW-9	02/18/09	3,809.98		86.94		3,723.04
MW-9	04/06/09			83.88		3,726.10



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-9	06/10/09			85.35		3,724.63
MW-9	08/25/09			85.25		3,724.73
MW-9	12/10/09			85.47		3,724.51
MW-9	01/08/10			85.27		3,724.71
MW-9	02/18/10			85.18		3,724.80
MW-9	06/09/10			85.09		3,724.89
MW-9	09/21/10			86.86		3,723.12
MW-9	12/17/10			86.64		3,723.34
MW-10	10/20/04	WELL INSTALLED 20-Oct-04 (TD-86.98)				
MW-10	10/27/04	3,809.64		75.76		3,733.88
MW-10	10/29/04			75.76		3,733.88
MW-10	11/19/04			75.84		3,733.80
MW-10	03/31/05			75.87		3,733.77
MW-10	04/25/05			75.85		3,733.79
MW-10	05/12/05			75.96		3,733.68
MW-10	05/31/05			75.91		3,733.73
MW-10	06/29/05			76.30		3,733.34
MW-10	08/22/05			77.32		3,732.32
MW-10	09/15/05			77.46		3,732.18
MW-10	11/14/05			78.08		3,731.56
MW-10	01/23/06			78.22		3,731.42
MW-10	03/01/06			77.58		3,732.06
MW-10	05/25/06			78.66		3,730.98
MW-10	08/14/06			79.96		3,729.68
MW-10	11/29/06			80.84		3,728.80
MW-10	12/12/06			80.91		3,728.73
MW-10	01/11/07			80.84		3,728.80
MW-10	02/08/07			80.59		3,729.05
MW-10	02/20/07			81.00		3,728.64
MW-10	03/06/07			81.08		3,728.56
MW-10	03/14/07			80.52		3,729.12



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-10	03/27/07			81.33		3,728.31
MW-10	03/29/07			81.07		3,728.57
MW-10	04/03/07			81.37		3,728.27
MW-10	04/11/07			81.46		3,728.18
MW-10	04/17/07			81.53		3,728.11
MW-10	05/24/07			81.54		3,728.10
MW-10	06/13/07			81.59		3,728.05
MW-10	06/26/07			81.78		3,727.86
MW-10	09/14/07			82.30		3,727.34
MW-10	10/19/07			82.33		3,727.31
MW-10	12/03/07			85.26		3,724.38
MW-10	01/08/08			82.01		3,727.63
MW-10	01/28/08			82.02		3,727.62
MW-10	03/12/08			82.04		3,727.60
MW-10	04/22/08			82.51		3,727.13
MW-10	05/16/08			82.64		3,727.00
MW-10	06/19/08			82.88		3,726.76
MW-10	08/13/08			83.42		3,726.22
MW-10	10/15/08			83.73		3,725.91
MW-10	12/04/08			83.51		3,726.13
MW-10	01/21/09			83.19		3,726.45
MW-10	02/18/09	3809.79		86.72		3,723.07
MW-10	04/06/09			83.87		3,725.92
MW-10	06/10/09			84.23		3,725.56
MW-10	08/25/09			85.29		3,724.50
MW-10	12/10/09			85.42		3,724.37
MW-10	01/08/10			85.20		3,724.59
MW-10	02/18/10			85.09		3,724.70
MW-10	06/09/10			85.67		3,724.12
MW-10	09/21/10			DRY		
MW-10	12/17/10			86.54		3,723.25



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-11	02/21/06	WELL INSTALLED 2/21/06 (TD-88.90)				
MW-11	03/01/06	3,808.95		76.95		3,732.00
MW-11	05/25/06			78.06		3,730.89
MW-11	08/14/06			79.57		3,729.38
MW-11	11/29/06			80.26		3,728.69
MW-11	12/12/06			80.27		3,728.68
MW-11	01/11/07			80.19		3,728.76
MW-11	02/08/07			79.91		3,729.04
MW-11	02/20/07			80.35		3,728.60
MW-11	03/06/07			80.42		3,728.53
MW-11	03/14/07			80.01		3,728.94
MW-11	03/27/09			80.43		3,728.52
MW-11	03/29/09			80.46		3,728.49
MW-11	04/03/07			80.96		3,727.99
MW-11	04/11/07			80.86		3,728.09
MW-11	04/17/07			80.94		3,728.01
MW-11	05/24/07			80.89		3,728.06
MW-11	06/13/07			81.08		3,727.87
MW-11	06/26/07			81.19		3,727.76
MW-11	09/14/07			81.68		3,727.27
MW-11	10/19/07			81.76		3,727.19
MW-11	12/03/07			81.60		3,727.35
MW-11	01/08/08			81.35		3,727.60
MW-11	01/28/08			81.36		3,727.59
MW-11	03/12/08			81.43		3,727.52
MW-11	04/22/08			81.91		3,727.04
MW-11	05/16/08			82.07		3,726.88
MW-11	06/19/08			82.31		3,726.64
MW-11	08/13/08			82.88		3,726.07
MW-11	10/15/08			83.15		3,725.80
MW-11	12/04/08			82.88		3,726.07
MW-11	01/21/09			82.53		3,726.42



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-11	02/18/09	3,809.12		82.77		3,726.35
MW-11	04/06/09			83.28		3,725.84
MW-11	06/10/09			83.76		3,725.36
MW-11	08/25/09			84.81		3,724.31
MW-11	12/10/09			84.08		3,725.04
MW-11	01/08/10			84.55		3,724.57
MW-11	02/18/10			84.43		3,724.69
MW-11	06/09/10			85.08		3,724.04
MW-11	09/21/10			86.30		3,722.82
MW-11	12/17/10			85.94		3,723.18
MW-12	02/23/06	WELL INSTALLED 2/23/06				
MW-12	03/01/06	3,809.63		77.60		3,732.03
MW-12	05/25/06			78.68		3,730.95
MW-12	08/14/06			79.99		3,729.64
MW-12	11/29/06			80.86		3,728.77
MW-12	12/12/06			80.90		3,728.73
MW-12	01/11/07			80.81		3,728.82
MW-12	02/08/07			80.55		3,729.08
MW-12	02/20/07			80.96		3,728.67
MW-12	03/06/07			81.04		3,728.59
MW-12	03/14/07			81.15		3,728.48
MW-12	03/27/07			81.31		3,728.32
MW-12	03/29/07			81.15		3,728.48
MW-12	04/03/07			81.35		3,728.28
MW-12	04/11/07			81.87		3,727.76
MW-12	04/17/07			81.50		3,728.13
MW-12	05/24/07			81.45		3,728.18
MW-12	06/26/07			81.79		3,727.84
MW-12	09/14/07			82.29		3,727.34
MW-12	10/19/07			82.36		3,727.27
MW-12	12/03/07			82.20		3,727.43



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-12	01/08/08			81.99		3,727.64
MW-12	01/28/08			81.98		3,727.65
MW-12	03/12/08			82.07		3,727.56
MW-12	04/22/08			82.52		3,727.11
MW-12	05/16/08			82.07		3,727.56
MW-12	06/19/08			82.91		3,726.72
MW-12	08/13/08			83.46		3,726.17
MW-12	10/15/08			83.74		3,725.89
MW-12	12/04/08		83.38	84.10	0.72	#REF!
MW-12	01/21/09		83.08	83.71	0.63	3,726.45
MW-12	02/18/09	3809.81	83.20	84.42	1.22	3,726.41
MW-12	04/06/09		83.51	85.66	2.15	3,725.95
MW-12	06/10/09		83.62	87.94	4.32	3,725.48
MW-12	08/25/09		84.44	89.90	5.46	3,724.47
MW-12	12/10/09		85.09	88.60	3.51	3,724.14
MW-12	01/08/10		84.93	88.26	3.33	3,724.33
MW-12	02/18/10		84.90	88.25	3.35	3,724.36
MW-12	06/09/10		86.05	86.26	0.21	3,723.73
MW-12	09/21/10		86.08	90.90	4.82	3,722.93
MW-12	12/17/10		86.15	88.25	2.10	3,723.31
MW-13	02/22/06	WELL INSTALLED 2/22/06 (TD-88.00)				
MW-13	03/01/06	3,809.42		77.33		3,732.09
MW-13	05/25/06			78.35		3,731.07
MW-13	08/14/06			79.59		3,729.83
MW-13	11/29/06			80.51		3,728.91
MW-13	12/12/06			80.68		3,728.74
MW-13	01/11/07			80.48		3,728.94
MW-13	02/08/07			80.25		3,729.17
MW-13	02/20/07			80.86		3,728.56
MW-13	03/06/07			80.71		3,728.71
MW-13	03/14/07			80.82		3,728.60



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-13	03/27/07			79.97		3,729.45
MW-13	03/29/07			80.70		3,728.72
MW-13	04/03/07			81.02		3,728.40
MW-13	04/11/07			81.62		3,727.80
MW-13	04/17/07			81.17		3,728.25
MW-13	05/24/07			81.19		3,728.23
MW-13	06/26/07			81.42		3,728.00
MW-13	09/14/07			81.99		3,727.43
MW-13	10/19/07			82.02		3,727.40
MW-13	12/03/07			81.91		3,727.51
MW-13	01/08/08			81.71		3,727.71
MW-13	01/28/08			81.71		3,727.71
MW-13	03/12/08			81.74		3,727.68
MW-13	04/22/08			82.17		3,727.25
MW-13	05/16/08			82.31		3,727.11
MW-13	06/19/08			82.54		3,726.88
MW-13	08/13/08			83.06		3,726.36
MW-13	10/15/08			83.37		3,726.05
MW-13	12/04/08			83.21		3,726.21
MW-13	01/21/09			82.91		3,726.51
MW-13	02/18/09	3,809.59		83.10		3,726.49
MW-13	04/06/09			83.54		3,726.05
MW-13	06/10/09			84.02		3,725.57
MW-13	08/25/09			84.95		3,724.64
MW-13	12/10/09			85.13		3,724.46
MW-13	01/08/10			84.92		3,724.67
MW-13	02/18/10			84.80		3,724.79
MW-13	06/09/10			85.36		3,724.23
MW-13	09/21/10			86.64		3,722.95
MW-13	12/17/10			86.27		3,723.32
MW-14	02/21/06	WELL INSTALLED 2/21/06 (TD-87.70)				



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-14	03/01/06	3,809.46		77.31		3,732.15
MW-14	05/25/06			78.29		3,731.17
MW-14	08/14/06			79.41		3,730.05
MW-14	11/29/06			80.37		3,729.09
MW-14	12/12/06			80.51		3,728.95
MW-14	01/11/07			80.53		3,728.93
MW-14	02/08/07			80.20		3,729.26
MW-14	02/20/07			80.61		3,728.85
MW-14	03/06/07			80.65		3,728.81
MW-14	03/14/07			80.02		3,729.44
MW-14	03/27/07			80.85		3,728.61
MW-14	03/29/07			80.59		3,728.87
MW-14	04/03/07			80.91		3,728.55
MW-14	04/11/07			80.59		3,728.87
MW-14	04/17/07			81.04		3,728.42
MW-14	05/24/07			81.10		3,728.36
MW-14	06/26/07			81.28		3,728.18
MW-14	09/14/07			81.88		3,727.58
MW-14	10/19/07			81.89		3,727.57
MW-14	12/03/07			81.78		3,727.68
MW-14	01/08/08			81.66		3,727.80
MW-14	01/28/08			81.68		3,727.78
MW-14	03/12/08			81.68		3,727.78
MW-14	04/22/08			82.11		3,727.35
MW-14	05/16/08			82.19		3,727.27
MW-14	06/19/08			82.41		3,727.05
MW-14	08/13/08			82.91		3,726.55
MW-14	10/15/08			83.23		3,726.23
MW-14	12/04/08			83.15		3,726.31
MW-14	01/21/09			82.08		3,727.38
MW-14	02/18/09	3,809.63		83.05		3,726.58
MW-14	04/06/09			83.43		3,726.20



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-14	06/10/09			83.91		3,725.72
MW-14	08/25/09			84.75		3,724.88
MW-14	12/10/09			85.04		3,724.59
MW-14	01/08/10			84.85		3,724.78
MW-14	02/18/10			84.74		3,724.89
MW-14	06/09/10			85.23		3,724.40
MW-14	09/21/10			86.47		3,723.16
MW-14	12/17/10			86.27		3,723.36
MW-15	02/22/06	WELL INSTALLED 2/22/06 (TD-92.00)				
MW-15	03/01/06	3,810.77		78.50		3,732.27
MW-15	05/25/06			79.41		3,731.36
MW-15	08/14/06			80.54		3,730.23
MW-15	11/29/06			81.54		3,729.23
MW-15	12/12/06			81.63		3,729.14
MW-15	01/11/07			81.67		3,729.10
MW-15	02/08/07			81.43		3,729.34
MW-15	02/20/07			81.81		3,728.96
MW-15	03/06/07			81.85		3,728.92
MW-15	03/14/07			81.16		3,729.61
MW-15	03/27/07			82.07		3,728.70
MW-15	03/29/07			81.40		3,729.37
MW-15	04/03/07			82.11		3,728.66
MW-15	04/11/07			82.70		3,728.07
MW-15	04/17/07			82.24		3,728.53
MW-15	05/24/07			82.30		3,728.47
MW-15	06/26/07			82.48		3,728.29
MW-15	09/14/07			83.05		3,727.72
MW-15	10/19/07			83.06		3,727.71
MW-15	12/03/07			83.02		3,727.75
MW-15	01/08/08			82.89		3,727.88
MW-15	01/28/08			82.81		3,727.96



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-15	03/12/08			82.86		3,727.91
MW-15	04/22/08			83.23		3,727.54
MW-15	05/16/08			83.31		3,727.46
MW-15	06/19/08			83.57		3,727.20
MW-15	08/13/08			84.07		3,726.70
MW-15	10/15/08			84.41		3,726.36
MW-15	12/04/08			84.34		3,726.43
MW-15	01/21/09			84.07		3,726.70
MW-15	02/18/09	3,810.93		84.26		3,726.67
MW-15	04/06/09			84.61		3,726.32
MW-15	06/10/09			85.07		3,725.86
MW-15	08/25/09			85.89		3,725.04
MW-15	12/10/09			86.22		3,724.71
MW-15	01/08/10			86.04		3,724.89
MW-15	02/18/10			85.95		3,724.98
MW-15	06/09/10			86.41		3,724.52
MW-15	09/21/10			86.60		3,724.33
MW-15	12/17/10			87.41		3,723.52
MW-16	02/23/06	WELL INSTALLED 2/23/06 (TD-90.52)				
MW-16	03/01/06	3,812.02		79.72		3,732.30
MW-16	05/25/06			80.58		3,731.44
MW-16	08/14/06			81.71		3,730.31
MW-16	11/29/06			82.74		3,729.28
MW-16	12/12/06			82.84		3,729.18
MW-16	01/11/07			82.90		3,729.12
MW-16	02/08/07			82.66		3,729.36
MW-16	02/20/07			83.06		3,728.96
MW-16	03/06/07			83.07		3,728.95
MW-16	03/14/07			82.69		3,729.33
MW-16	03/27/07			83.27		3,728.75
MW-16	03/29/07			83.01		3,729.01



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-16	04/03/07			83.33		3,728.69
MW-16	04/11/07			84.02		3,728.00
MW-16	04/17/07			83.44		3,728.58
MW-16	05/24/07			83.55		3,728.47
MW-16	06/26/07			83.69		3,728.33
MW-16	09/14/07			84.25		3,727.77
MW-16	10/19/07			84.28		3,727.74
MW-16	12/03/07			84.24		3,727.78
MW-16	01/08/08			84.10		3,727.92
MW-16	01/28/08			84.09		3,727.93
MW-16	03/12/08			84.07		3,727.95
MW-16	04/22/08			80.09		3,731.93
MW-16	05/16/08			85.55		3,726.47
MW-16	06/19/08			84.76		3,727.26
MW-16	08/13/08			85.25		3,726.77
MW-16	10/15/08			85.63		3,726.39
MW-16	12/04/08			85.58		3,726.44
MW-16	01/21/09			85.32		3,726.70
MW-16	02/18/09	3,812.23		85.53		3,726.70
MW-16	04/06/09			85.80		3,726.43
MW-16	06/10/09			86.26		3,725.97
MW-16	08/25/09			87.08		3,725.15
MW-16	12/10/09			85.30		3,726.93
MW-16	01/08/10			87.24		3,724.99
MW-16	02/18/10			87.17		3,725.06
MW-16	06/09/10			87.60		3,724.63
MW-16	09/21/10			88.78		3,723.45
MW-16	12/17/10			88.61		3,723.62
MW-17	02/23/06	WELL INSTALLED 2/23/06 (TD-91.00)				
MW-17	03/01/06	3,810.40		78.07		3,732.33
MW-17	05/25/06			78.92		3,731.48



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-17	08/14/06			80.02		3,730.38
MW-17	11/29/06			81.10		3,729.30
MW-17	12/12/06			81.20		3,729.20
MW-17	01/11/07			81.25		3,729.15
MW-17	02/08/07			81.06		3,729.34
MW-17	02/20/07			81.45		3,728.95
MW-17	03/06/07			81.48		3,728.92
MW-17	03/14/07			80.89		3,729.51
MW-17	03/27/07			81.65		3,728.75
MW-17	03/29/07			81.40		3,729.00
MW-17	04/03/07			81.70		3,728.70
MW-17	04/11/07			82.11		3,728.29
MW-17	04/17/07			81.83		3,728.57
MW-17	05/22/07			81.92		3,728.48
MW-17	06/26/07			82.06		3,728.34
MW-17	09/14/07			82.59		3,727.81
MW-17	10/19/07			82.60		3,727.80
MW-17	12/03/07			82.56		3,727.84
MW-17	01/08/08			82.48		3,727.92
MW-17	01/28/08			82.47		3,727.93
MW-17	03/12/08			82.41		3,727.99
MW-17	04/22/08			80.42		3,729.98
MW-17	05/16/08			82.89		3,727.51
MW-17	06/19/08			83.10		3,727.30
MW-17	08/13/08			83.68		3,726.72
MW-17	10/15/08			83.98		3,726.42
MW-17	12/04/08			83.92		3,726.48
MW-17	01/21/09			83.66		3,726.74
MW-17	02/18/09	3,810.57		83.85		3,726.72
MW-17	04/06/09			84.17		3,726.40
MW-17	06/10/09			84.59		3,725.98
MW-17	08/25/09			85.37		3,725.20



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-17	12/10/09			85.71		3,724.86
MW-17	01/08/10			85.60		3,724.97
MW-17	02/18/10			85.52		3,725.05
MW-17	06/09/10			85.92		3,724.65
MW-17	09/21/10			87.13		3,723.44
MW-17	12/17/10			86.95		3,723.62
MW-18	03/18/08	WELL INSTALLED 3/18/08 (TD-89.60)				
MW-18	03/25/08	3,809.09		82.07		3,727.02
MW-18	04/22/08			82.19		3,726.90
MW-18	05/16/08			82.36		3,726.73
MW-18	06/19/08			82.61		3,726.48
MW-18	08/13/08			83.19		3,725.90
MW-18	10/15/08			83.45		3,725.64
MW-18	12/04/08			83.11		3,725.98
MW-18	01/21/09			82.78		3,726.31
MW-18	02/18/09	3,809.28		83.01		3,726.27
MW-18	04/06/09			83.60		3,725.68
MW-18	06/10/09			84.06		3,725.22
MW-18	08/25/09			85.13		3,724.15
MW-18	12/10/09			85.09		3,724.19
MW-18	01/08/10			84.82		3,724.46
MW-18	02/18/10			84.67		3,724.61
MW-18	06/09/10			85.36		3,723.92
MW-18	09/21/10			86.60		3,722.68
MW-18	12/17/10			86.18		3,723.10

Corrected Groundwater Elevation = Top of Casing Elevation - (Depth to Water Below Top of Casing - (SG)(PSH Thickness)) SG=0.835

** Estimated Product Thickness using Total Depth of Well as the Depth to Water.

ND = Not Detected

NM = Not Measured

btoc = Below Top of Casing



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
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amsl = Above Mean Sea Level



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCDF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-1	09/22/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	11/19/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	03/31/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	05/12/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	08/22/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	11/14/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	03/01/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	05/25/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	08/14/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	11/29/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	03/29/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	06/13/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	09/14/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	12/03/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1	03/12/08	Not sampled Due to Dry Well				
MW-1	06/19/08	Not sampled Due to Dry Well				
MW-1	08/13/08	Not sampled Due to Dry Well				
MW-1	09/18/08	Well Plugged				
MW-1A	09/18/08	Well Installed				
MW-1A	09/23/08	20.1	13.9	2.03	4.58	40.61
MW-1A	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	06/10/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	08/25/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	12/11/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	02/18/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	06/09/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	09/22/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-1A	12/17/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	09/22/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	11/19/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	03/31/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	05/12/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	08/22/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	11/14/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-2	03/01/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	05/25/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	08/14/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	11/29/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	03/29/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	06/13/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	09/14/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	12/03/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	03/12/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	06/19/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	08/13/08	Not sampled Due to Not Enough Water				
MW-2	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	06/10/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	08/26/09	29.2	15.0	3.49	9.26	56.95
MW-2	12/11/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	02/18/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	06/09/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	09/22/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-2	12/17/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	09/22/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	11/19/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	03/31/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	05/12/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	08/22/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	11/14/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	03/01/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	05/25/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	08/14/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	11/29/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	03/29/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	06/13/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	09/14/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	12/03/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	03/12/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCDF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-3	06/19/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	09/23/08	18.2	7.71	1.81	4.15	31.9
MW-3	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	06/10/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	08/26/09	26.7	26.4	7.80	18.0	26.1
MW-3	12/11/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	02/18/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	06/09/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	09/22/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-3	12/17/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	09/22/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	11/19/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	03/31/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	05/12/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	08/22/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	11/14/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	03/01/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	05/25/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	08/14/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	11/29/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	03/29/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	06/13/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	09/14/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	12/03/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	03/12/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	06/19/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	09/23/08	31.2	31.1	8.39	18.9	89.6
MW-4	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	06/10/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	8/25/209	Not Sampled Due to Insufficient Water				
MW-4	12/11/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	02/18/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	06/09/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-4	09/22/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-4	12/17/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	09/22/04	<0.00100	<0.00100	<0.00100	<0.00300	179.2
MW-5	03/31/05	3.14	0.0498	0.142	0.133	3.46
MW-5	05/12/05	4.25	0.0089	0.313	0.184	4.76
MW-5	08/22/05	20.3	2.240	1.420	1.140	25.1
MW-5	11/14/05	19.5	0.847	0.904	0.478	21.7
MW-5	03/01/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	05/25/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	08/14/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	11/29/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	03/29/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	06/13/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	09/14/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	12/03/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	03/12/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	06/19/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	09/23/08	11.9	5.8	1.08	1.92	20.7
MW-5	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	06/10/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	08/26/09	15.9	9.17	2.05	4.87	32.0
MW-5	12/11/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	02/18/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	06/09/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	09/22/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-5	12/17/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-6	11/19/04	0.635	0.00105	<0.00100	0.00981	0.646
MW-6	03/31/05	0.702	<0.00100	<0.00100	0.0107	0.713
MW-6	05/12/05	0.468	0.00139	<0.00100	0.00823	0.48
MW-6	08/22/05	0.158	<0.00100	1.3	0.00406	1.462
MW-6	11/14/05	0.231	0.00574	1.97	0.00896	2.216
MW-6	03/01/06	0.0909	0.00382	<0.00100	0.0035	0.0982
MW-6	05/25/06	<0.00100	<0.00100	<0.00100	<0.00300	<0.00300



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-6	08/14/06	0.863	<0.100	<0.100	<0.300	0.863
MW-6	11/29/06	1.360	0.0366	<5	0.03624	1.433
MW-6	03/29/07	0.112	0.0220	0.00184	0.01143	0.147
MW-6	06/13/07	0.101	0.0206	<0.00100	0.00919	0.131
MW-6	09/14/07	0.0968	0.0104	0.0013	0.008	0.1165
MW-6	12/03/07	0.1491	0.0209	0.0011	0.0132	0.1843
MW-6	03/12/08	0.138	0.03010	<0.00100	0.01880	0.187
MW-6	06/19/08	0.198	0.0293	0.00120	0.01390	0.242
MW-6	08/13/08	0.454	0.0383	<0.0100	<0.0100	0.4923
MW-6	12/04/08	0.200	0.0162	0.00230	0.0115	0.230
MW-6	02/19/09	0.116	0.00910	<0.00100	0.00250	0.128
MW-6	06/10/09	0.229	0.0242	<0.00100	0.0172	0.270
MW-6	08/25/09	0.269	0.0270	<0.00100	0.0320	0.328
MW-6	12/11/09	0.410	0.0395	0.00200	0.0271	0.479
MW-6	02/18/10	1.360	0.0375	0.04560	0.0733	1.516
MW-6	06/09/10	0.09530	0.00890	<0.00500	<0.00500	0.104
MW-6	09/22/10	0.157	0.01800	<0.00500	<0.00500	0.175
MW-6	12/17/10	0.0814	<0.00500	<0.00500	<0.00500	0.0814
MW-7	11/19/04	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	03/31/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	05/12/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	08/22/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	11/14/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	03/01/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	05/25/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	08/14/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	11/29/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	03/29/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	06/13/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	09/14/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	12/03/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	03/12/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	06/19/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	08/13/08	Not sampled Due to Not Enough Water				
MW-7	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-7	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	06/10/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	08/25/09	Not Sampled Due to Insufficient Water				
MW-7	12/11/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	02/18/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	06/09/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	09/22/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-7	12/17/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	11/19/04	1.440	0.141	0.0298	0.0782	1.689
MW-8	03/31/05	0.915	0.0596	0.00408	0.0317	1.010
MW-8	05/12/05	0.737	0.0878	0.00588	0.0315	0.862
MW-8	08/22/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	11/14/05	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	03/01/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	05/25/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	08/14/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	11/29/06	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	03/29/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	06/13/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	09/14/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	12/03/07	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	03/12/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	06/19/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	08/13/08	Not sampled Due to Not Enough Water				
MW-8	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-8	06/10/09	Not Sampled Due to Insufficient Water				
MW-8	08/25/09	Not Sampled Due to Insufficient Water				
MW-8	12/11/09	Not Sampled Due to Insufficient Water				
MW-8	02/18/10	Not Sampled Due to Insufficient Water				
MW-8	06/09/10	Not Sampled Due to Insufficient Water				
MW-8	09/22/10	Not Sampled Due to Insufficient Water				
MW-8	12/17/10	Not Sampled Due to Insufficient Water				
MW-9	11/19/04	0.042	<0.00100	<0.00100	<0.00100	0.042



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-9	03/31/05	0.024	<0.00100	<0.00100	0.00302	0.027
MW-9	05/12/05	0.0115	<0.00100	<0.00100	0.00201	0.014
MW-9	08/22/05	0.0108	<0.00100	<0.00100	0.00701	0.018
MW-9	11/14/05	0.00855	<0.00100	<0.00100	<0.00300	0.009
MW-9	03/01/06	0.00537	<0.00100	<0.00100	<0.00300	0.005
MW-9	05/25/06	0.0289	<0.00100	<0.00100	<0.00300	0.029
MW-9	08/14/06	0.0152	<0.00100	<0.00100	<0.00300	0.015
MW-9	11/29/06	0.0238	<0.00100	<0.00100	<0.00300	0.024
MW-9	03/29/07	0.0186	0.000482	0.000281	0.00157	0.021
MW-9	06/13/07	0.00910	<0.001	<0.001	0.00504	0.014
MW-9	09/14/07	0.0081	<0.001	<0.001	0.0045	0.013
MW-9	12/03/07	0.0049	<0.002	<0.001	0.0100	0.015
MW-9	03/12/08	0.0070	<0.00100	<0.00100	0.0102	0.017
MW-9	06/19/08	0.01240	<0.00100	<0.00100	0.00150	0.014
MW-9	08/13/08	0.130	<0.00100	<0.00100	<0.00100	0.130
MW-9	12/04/08	0.166	<0.00100	0.0151	0.0195	0.201
MW-9	02/19/09	0.00290	<0.00100	<0.00100	<0.00100	0.003
MW-9	06/10/09	0.0125	<0.00100	<0.00100	0.00550	0.018
MW-9	08/25/09	0.019	<0.00100	<0.00100	0.0203	0.039
MW-9	12/11/09	0.00280	<0.00100	<0.00100	<0.00100	0.003
MW-9	02/18/10	0.04940	<0.00100	0.00300	0.00480	0.057
MW-9	06/09/10	0.01450	<0.00100	<0.00100	<0.00100	0.015
MW-9	09/22/10	0.03850	<0.00100	<0.00100	<0.00100	0.03850
MW-9	12/17/10	0.00700	<0.00100	<0.00100	<0.00100	0.00700
MW-10	11/19/04	0.00725	0.00126	<0.00100	0.0367	0.04521
MW-10	03/31/05	0.00128	<0.00100	<0.00100	0.0247	0.02598
MW-10	05/12/05	0.00316	<0.00100	<0.00100	0.00793	0.01109
MW-10	08/22/05	0.00276	<0.00100	<0.00100	<0.00300	0.00276
MW-10	11/14/05	0.00809	<0.00100	<0.00100	<0.00300	0.00809
MW-10	03/01/06	0.00378	<0.00100	<0.00100	<0.002	0.00378
MW-10	05/25/06	0.00663	<0.00100	<0.00100	<0.002	0.00663
MW-10	08/14/06	0.0071	<0.00100	<0.00100	<0.002	0.00710
MW-10	11/29/06	0.0107	<0.00100	<0.00100	<0.002	0.01070
MW-10	03/29/07	0.00696	0.00140	<0.00100	0.00151	0.00987
MW-10	06/13/07	0.00362	0.00137	<0.00100	0.00237	0.00736



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-10	09/14/07	0.0056	<0.00100	<0.00100	0.0023	0.00790
MW-10	12/03/07	0.0046	<0.002	<0.00100	<0.002	0.00460
MW-10	03/12/08	0.17900	0.030	0.00890	0.0389	0.25680
MW-10	06/19/08	0.00470	<0.00100	<0.00100	0.00210	0.00680
MW-10	08/13/08	<0.00500	<0.00500	<0.00500	<0.00500	0.00000
MW-10	12/04/08	0.00550	<0.00100	<0.00100	0.0150	0.02050
MW-10	02/19/09	0.00310	<0.00100	<0.00100	<0.00100	0.00310
MW-10	06/10/09	0.0114	0.00470	<0.00100	0.00900	0.02510
MW-10	08/25/09	0.0302	0.0129	<0.00100	0.0258	0.06890
MW-10	12/11/09	0.00240	<0.00100	<0.00100	<0.00100	0.00240
MW-10	06/09/10	0.00300	<0.00100	<0.00100	<0.00100	0.00300
MW-10	09/22/10	Not Sampled Due to Insufficient Water				
MW-10	12/17/10	0.01920	<0.00100	<0.00100	<0.00100	0.01920
MW-11	03/01/06	<0.00100	<0.00100	<0.00100	<0.00300	<0.00300
MW-11	05/25/06	<0.00100	<0.00100	<0.00100	<0.00300	<0.00300
MW-11	08/14/06	0.00181	<0.00100	<0.00100	<0.00300	0.00181
MW-11	11/29/06	0.00389	0.00198	<0.00100	<0.00300	0.00587
MW-11	03/29/07	<0.00100	<0.00100	<0.00100	<0.00300	<0.00300
MW-11	06/13/07	<0.00100	<0.00100	<0.00100	<0.00300	<0.00300
MW-11	09/14/07	0.0013	<0.00100	<0.00100	<0.00300	0.0013
MW-11	12/03/07	0.0010	<0.00100	<0.00100	<0.00300	0.001
MW-11	03/12/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	06/19/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	08/13/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	12/04/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	02/19/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	06/10/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	08/25/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	12/11/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	02/18/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	06/09/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	09/22/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-11	12/17/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-12	03/01/06	0.00448	<0.001	0.00738	0.0119	0.02376



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-12	05/25/06	0.75	0.00532	0.0553	0.10683	0.91745
MW-12	08/14/06	10.7	0.116	0.567	0.646	12.029
MW-12	11/29/06	28.4	8.69	1.59	3.08	41.76
MW-12	03/29/07	18.4	4.65	1.46	2.46	26.97
MW-12	06/13/07	27.6	4.87	1.16	1.05	34.68
MW-12	09/14/07	18.66	1.490	0.7570	1.14	22.047
MW-12	12/03/07	24.91	1.080	0.6060	0.910	27.506
MW-12	03/12/08	31.5	1.12	0.874	1.09	34.584
MW-12	06/19/08	30.7	4.95	1.27	1.99	38.91
MW-12	08/13/08	30.2	8.44	1.25	2.22	42.11
MW-12	12/04/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	02/19/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	06/10/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	08/26/09	43.00	48.40	17.20	39.80	148.40
MW-12	12/11/09	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	02/18/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	06/09/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	09/22/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-12	12/17/10	Not Sampled Due to Presence of Phase Separated Hydrocarbons				
MW-13	03/01/06	<0.001	<0.001	<0.001	<0.003	<0.003
MW-13	05/25/06	<0.001	<0.001	<0.001	<0.003	<0.003
MW-13	08/14/06	<0.001	<0.001	<0.001	<0.003	<0.003
MW-13	11/29/06	0.00631	0.0121	0.00264	0.0139	0.03495
MW-13	03/29/07	0.0313	0.00911	0.00508	0.00367	0.04916
MW-13	06/13/07	0.0122	0.00427	0.00207	0.00357	0.02211
MW-13	09/14/07	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-13	12/03/07	0.0021	<0.002	<0.001	<0.003	0.0021
MW-13	03/12/08	0.0210	<0.00100	<0.00100	0.00310	0.0241
MW-13	06/19/08	0.0179	<0.00100	<0.00100	0.00200	0.0199
MW-13	08/13/08	0.0231	<0.00100	<0.00100	0.00140	0.0245
MW-13	12/04/08	0.0240	<0.00100	<0.00100	0.0161	0.0401
MW-13	02/19/09	0.0634	<0.00100	<0.00100	0.00400	0.0674
MW-13	06/10/09	0.0621	<0.00100	<0.00100	0.0282	0.0903
MW-13	08/25/09	0.1200	<0.00100	<0.00100	0.05280	0.1728
MW-13	12/11/09	0.00770	<0.00100	<0.00100	<0.00100	0.0077



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-13	02/18/10	0.01100	<0.00100	<0.00100	0.00530	0.0163
MW-13	06/09/10	0.0320	<0.00100	<0.00100	0.00480	0.0368
MW-13	09/22/10	0.0507	<0.00100	<0.00100	0.00410	0.0548
MW-13	12/17/10	0.0908	<0.00100	<0.00100	0.03020	0.1210
MW-14	03/01/06	<0.001	<0.001	<0.001	<0.002	<0.002
MW-14	05/25/06	<0.001	0.00202	<0.001	<0.002	<0.002
MW-14	08/14/06	<0.001	<0.001	<0.001	<0.002	<0.002
MW-14	11/29/06	<0.001	<0.001	<0.001	<0.002	<0.002
MW-14	03/29/07	0.00402	0.00139	<0.001	<0.001	0.00541
MW-14	06/13/07	0.00794	0.00235	<0.001	0.00122	0.01151
MW-14	09/14/07	0.0016	<0.001	<0.001	<0.002	0.0016
MW-14	12/03/07	<0.001	<0.002	<0.001	<0.002	<0.002
MW-14	03/12/08	0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	06/19/08	0.00650	0.0015	<0.00100	0.00140	0.00940
MW-14	08/13/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	12/04/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	02/19/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	06/10/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	08/25/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	12/11/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	02/18/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	06/09/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	09/22/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14	12/17/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	03/01/06	<0.001	0.00115	<0.001	<0.00300	0.00115
MW-15	05/25/06	<0.001	0.002	<0.001	<0.00300	0.002
MW-15	08/14/06	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-15	11/29/06	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-15	03/29/07	0.00291	<0.001	<0.001	<0.00300	0.00291
MW-15	06/13/07	0.00171	<0.001	<0.001	<0.00300	0.00171
MW-15	09/14/07	0.0123	0.0012	<0.001	<0.00300	0.0135
MW-15	12/03/07	0.0013	<0.002	<0.001	<0.00300	0.0013
MW-15	03/12/08	0.00260	<0.00100	<0.00100	<0.00100	0.0026
MW-15	06/19/08	0.00850	<0.00100	<0.00100	<0.00100	0.0085



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P. - SRS# 2002-10250
C.S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-15	08/13/08	0.00350	<0.00100	<0.00100	<0.00100	0.0035
MW-15	12/04/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	02/19/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	06/10/09	0.00680	<0.00100	<0.00100	<0.00100	0.0068
MW-15	08/25/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	12/11/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	02/18/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	06/09/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	09/22/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-15	12/17/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-16	03/01/06	0.00691	0.011	0.00574	0.01589	0.03954
MW-16	05/25/06	0.118	0.0248	0.00278	0.00616	0.15174
MW-16	08/14/06	<0.001	<0.001	<0.001	<0.002	<0.002
MW-16	11/29/06	0.00362	<0.001	<0.001	<0.002	0.00362
MW-16	03/29/07	0.0665	0.0132	0.00154	0.00636	0.0876
MW-16	06/13/07	0.0198	0.00494	<0.001	0.00290	0.02764
MW-16	09/14/07	0.0240	0.0032	<0.001	<0.002	0.0272
MW-16	12/03/07	0.2048	0.0040	0.0015	0.0060	0.2163
MW-16	03/12/08	0.165	0.0113	0.00270	0.0174	0.1964
MW-16	06/19/08	0.129	0.00710	0.00220	0.00850	0.1468
MW-16	08/13/08	0.117	<0.00100	<0.00100	0.00440	0.1214
MW-16	12/04/08	0.0147	0.00930	<0.00100	0.0165	0.0405
MW-16	02/19/09	0.00280	<0.00100	<0.00100	<0.00100	0.0028
MW-16	06/10/09	0.0156	<0.00100	<0.00100	<0.00100	0.0156
MW-16	08/25/09	0.147	<0.00100	<0.00100	0.02350	0.1705
MW-16	12/11/09	0.0368	<0.00100	<0.00100	<0.00100	0.0368
MW-16	02/18/10	0.0352	<0.00100	<0.00100	0.00440	0.0396
MW-16	06/09/10	0.0385	<0.00100	<0.00100	0.00340	0.0419
MW-16	09/22/10	0.0937	<0.00100	<0.00100	0.00250	0.0962
MW-16	12/17/10	0.0127	<0.00100	<0.00100	0.00810	0.0208
MW-17	05/25/06	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-17	08/14/06	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-17	11/29/06	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-17	03/29/07	0.00177	<0.001	<0.001	<0.00300	0.00177



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
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C.S. CAYLER
NMOCDF REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethyl Benzene	Xylene	Total BTEX
MW-17	06/13/07	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-17	09/14/07	<0.001	<0.001	<0.001	<0.00300	<0.00300
MW-17	12/03/07	0.0022	<0.002	<0.001	<0.00300	0.0022
MW-17	03/12/08	0.00310	<0.00100	<0.00100	<0.00100	0.0031
MW-17	06/19/08	0.00950	<0.00100	<0.00100	0.00150	0.01100
MW-17	08/13/08	0.00500	<0.00100	<0.00100	<0.00100	0.005
MW-17	12/04/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	02/19/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	06/10/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	08/25/09	0.00790	<0.00100	<0.00100	<0.00100	0.0079
MW-17	12/11/09	0.00790	<0.00100	<0.00100	<0.00100	0.0079
MW-17	02/18/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	06/09/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	09/22/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-17	12/17/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	03/28/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	06/19/08	0.00240	0.00190	<0.00100	0.00450	0.00880
MW-18	08/13/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	12/04/08	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	02/19/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	06/10/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	08/25/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	12/11/09	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	02/18/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	06/09/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	09/22/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	12/17/10	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
NMWQCC Remedial Limits		0.010	0.750	0.750	0.620	NA

¹ **Bolded** values are in excess of the NMWQCC Remediation Thresholds
 BTEX analyzed by EPA Method 8021B

APPENDIX C

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

Summary Report

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

Report Date: March 1, 2010

Work Order: 10021935



Project Location: Hobbs, NM
Project Name: C.S. Cayler
Project Number: 700376.049.01
SRS #: 2002-10250

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
223206	MW-6	water	2010-02-18	12:35	2010-02-19
223207	MW-9	water	2010-02-18	11:44	2010-02-19
223208	MW-10	water	2010-02-18	11:40	2010-02-19
223209	MW-11	water	2010-02-18	11:37	2010-02-19
223210	MW-13	water	2010-02-18	12:29	2010-02-19
223211	MW-14	water	2010-02-18	12:22	2010-02-19
223212	MW-15	water	2010-02-18	12:13	2010-02-19
223213	MW-16	water	2010-02-18	12:03	2010-02-19
223214	MW-17	water	2010-02-18	11:53	2010-02-19
223215	MW-18	water	2010-02-18	11:33	2010-02-19

Sample - Field Code	BTX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
223206 - MW-6	1.36	0.0375	0.0456	0.0733
223207 - MW-9	0.0494	<0.00100	0.00300	0.00480
223208 - MW-10	0.186	0.0112	0.00580	0.0108
223209 - MW-11	<0.00100	<0.00100	<0.00100	<0.00100
223210 - MW-13	0.0110	<0.00100	<0.00100	0.00530
223211 - MW-14	<0.00100	<0.00100	<0.00100	<0.00100
223212 - MW-15	<0.00100	<0.00100	<0.00100	<0.00100
223213 - MW-16	0.0352	<0.00100	<0.00100	0.00440
223214 - MW-17	<0.00100	<0.00100	<0.00100	<0.00100
223215 - MW-18	<0.00100	<0.00100	<0.00100	<0.00100



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E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

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

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: March 1, 2010

Work Order: 10021935



Project Location: Hobbs, NM
Project Name: C.S. Cayler
Project Number: 700376.049.01
SRS #: 2002-10250

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
223206	MW-6	water	2010-02-18	12:35	2010-02-19
223207	MW-9	water	2010-02-18	11:44	2010-02-19
223208	MW-10	water	2010-02-18	11:40	2010-02-19
223209	MW-11	water	2010-02-18	11:37	2010-02-19
223210	MW-13	water	2010-02-18	12:29	2010-02-19
223211	MW-14	water	2010-02-18	12:22	2010-02-19
223212	MW-15	water	2010-02-18	12:13	2010-02-19
223213	MW-16	water	2010-02-18	12:03	2010-02-19
223214	MW-17	water	2010-02-18	11:53	2010-02-19
223215	MW-18	water	2010-02-18	11:33	2010-02-19

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.

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



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

Standard Flags

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

Case Narrative

Samples for project C.S. Cayler were received by TraceAnalysis, Inc. on 2010-02-19 and assigned to work order 10021935. Samples for work order 10021935 were received intact without headspace and at a temperature of 3.9 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	58042	2010-02-25 at 14:00	67848	2010-02-25 at 17:21
BTEX	S 8021B	58049	2010-02-26 at 10:00	67875	2010-02-26 at 08:22

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 10021935 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: March 1, 2010
700376.049.01

Work Order: 10021935
C.S. Cayler

Page Number: 4 of 12
Hobbs, NM

Analytical Report

Sample: 223206 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 67848
Prep Batch: 58042

Analytical Method: S 8021B
Date Analyzed: 2010-02-25
Sample Preparation: 2010-02-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		1.36	mg/L	5	0.00100
Toluene		0.0375	mg/L	5	0.00100
Ethylbenzene		0.0456	mg/L	5	0.00100
Xylene		0.0733	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.427	mg/L	5	0.500	85	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.357	mg/L	5	0.500	71	51.1 - 118.8

Sample: 223207 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 67848
Prep Batch: 58042

Analytical Method: S 8021B
Date Analyzed: 2010-02-25
Sample Preparation: 2010-02-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0494	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00300	mg/L	1	0.00100
Xylene		0.00480	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0889	mg/L	1	0.100	89	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0724	mg/L	1	0.100	72	51.1 - 118.8

Sample: 223208 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 67848
Prep Batch: 58042

Analytical Method: S 8021B
Date Analyzed: 2010-02-25
Sample Preparation: 2010-02-25

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

Report Date: March 1, 2010
700376.049.01

Work Order: 10021935
C.S. Cayler

Page Number: 5 of 12
Hobbs, NM

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.186	mg/L	1	0.00100
Toluene		0.0112	mg/L	1	0.00100
Ethylbenzene		0.00580	mg/L	1	0.00100
Xylene		0.0108	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0895	mg/L	1	0.100	90	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0765	mg/L	1	0.100	76	51.1 - 118.8

Sample: 223209 - MW-11

Laboratory: Midland
Analysis: BTEX
QC Batch: 67848
Prep Batch: 58042

Analytical Method: S 8021B
Date Analyzed: 2010-02-25
Sample Preparation: 2010-02-25

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0914	mg/L	1	0.100	91	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0795	mg/L	1	0.100	80	51.1 - 118.8

Sample: 223210 - MW-13

Laboratory: Midland
Analysis: BTEX
QC Batch: 67848
Prep Batch: 58042

Analytical Method: S 8021B
Date Analyzed: 2010-02-25
Sample Preparation: 2010-02-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0110	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00530	mg/L	1	0.00100

Report Date: March 1, 2010
700376.049.01

Work Order: 10021935
C.S. Cayler

Page Number: 6 of 12
Hobbs, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0889	mg/L	1	0.100	89	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0718	mg/L	1	0.100	72	51.1 - 118.8

Sample: 223211 - MW-14

Laboratory: Midland

Analysis: BTEX

QC Batch: 67848

Prep Batch: 58042

Analytical Method: S 8021B

Date Analyzed: 2010-02-25

Sample Preparation: 2010-02-25

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0831	mg/L	1	0.100	83	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0667	mg/L	1	0.100	67	51.1 - 118.8

Sample: 223212 - MW-15

Laboratory: Midland

Analysis: BTEX

QC Batch: 67848

Prep Batch: 58042

Analytical Method: S 8021B

Date Analyzed: 2010-02-25

Sample Preparation: 2010-02-25

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0850	mg/L	1	0.100	85	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0684	mg/L	1	0.100	68	51.1 - 118.8

Report Date: March 1, 2010
700376.049.01

Work Order: 10021935
C.S. Cayler

Page Number: 7 of 12
Hobbs, NM

Sample: 223213 - MW-16

Laboratory: Midland
Analysis: BTEX
QC Batch: 67875
Prep Batch: 58049

Analytical Method: S 8021B
Date Analyzed: 2010-02-26
Sample Preparation: 2010-02-26

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0352	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00440	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0883	mg/L	1	0.100	88	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0745	mg/L	1	0.100	74	51.1 - 118.8

Sample: 223214 - MW-17

Laboratory: Midland
Analysis: BTEX
QC Batch: 67875
Prep Batch: 58049

Analytical Method: S 8021B
Date Analyzed: 2010-02-26
Sample Preparation: 2010-02-26

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0888	mg/L	1	0.100	89	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0741	mg/L	1	0.100	74	51.1 - 118.8

Sample: 223215 - MW-18

Laboratory: Midland
Analysis: BTEX
QC Batch: 67875
Prep Batch: 58049

Analytical Method: S 8021B
Date Analyzed: 2010-02-26
Sample Preparation: 2010-02-26

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

Report Date: March 1, 2010
700376.049.01

Work Order: 10021935
C.S. Cayler

Page Number: 8 of 12
Hobbs, NM

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0869	mg/L	1	0.100	87	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0774	mg/L	1	0.100	77	51.1 - 118.8

Method Blank (1) QC Batch: 67848

QC Batch: 67848
Prep Batch: 58042

Date Analyzed: 2010-02-25
QC Preparation: 2010-02-25

Analyzed By: AG
Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0956	mg/L	1	0.100	96	73.6 - 126.6
4-Bromofluorobenzene (4-BFB)		0.0849	mg/L	1	0.100	85	62.6 - 117.5

Method Blank (1) QC Batch: 67875

QC Batch: 67875
Prep Batch: 58049

Date Analyzed: 2010-02-26
QC Preparation: 2010-02-26

Analyzed By: AG
Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0949	mg/L	1	0.100	95	73.6 - 126.6
4-Bromofluorobenzene (4-BFB)		0.0809	mg/L	1	0.100	81	62.6 - 117.5

Report Date: March 1, 2010
700376.049.01

Work Order: 10021935
C.S. Cayler

Page Number: 9 of 12
Hobbs, NM

Laboratory Control Spike (LCS-1)

QC Batch: 67848
Prep Batch: 58042

Date Analyzed: 2010-02-25
QC Preparation: 2010-02-25

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0879	mg/L	1	0.100	<0.000300	88	79.4 - 112.4
Toluene	0.0874	mg/L	1	0.100	<0.000200	87	79.3 - 110
Ethylbenzene	0.0867	mg/L	1	0.100	<0.000200	87	73.8 - 113.1
Xylene	0.262	mg/L	1	0.300	<0.000900	87	73.9 - 113.6

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0929	mg/L	1	0.100	<0.000300	93	79.4 - 112.4	6	20
Toluene	0.0928	mg/L	1	0.100	<0.000200	93	79.3 - 110	6	20
Ethylbenzene	0.0924	mg/L	1	0.100	<0.000200	92	73.8 - 113.1	6	20
Xylene	0.279	mg/L	1	0.300	<0.000900	93	73.9 - 113.6	6	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0844	0.0916	mg/L	1	0.100	84	92	76.2 - 129.6
4-Bromofluorobenzene (4-BFB)	0.0892	0.0971	mg/L	1	0.100	89	97	77.9 - 119.8

Laboratory Control Spike (LCS-1)

QC Batch: 67875
Prep Batch: 58049

Date Analyzed: 2010-02-26
QC Preparation: 2010-02-26

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0908	mg/L	1	0.100	<0.000300	91	79.4 - 112.4
Toluene	0.0900	mg/L	1	0.100	<0.000200	90	79.3 - 110
Ethylbenzene	0.0893	mg/L	1	0.100	<0.000200	89	73.8 - 113.1
Xylene	0.270	mg/L	1	0.300	<0.000900	90	73.9 - 113.6

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0901	mg/L	1	0.100	<0.000300	90	79.4 - 112.4	1	20
Toluene	0.0916	mg/L	1	0.100	<0.000200	92	79.3 - 110	2	20
Ethylbenzene	0.0937	mg/L	1	0.100	<0.000200	94	73.8 - 113.1	5	20
Xylene	0.282	mg/L	1	0.300	<0.000900	94	73.9 - 113.6	4	20

Report Date: March 1, 2010
700376.049.01

Work Order: 10021935
C.S. Cayler

Page Number: 10 of 12
Hobbs, NM

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0832	0.0903	mg/L	1	0.100	83	90	76.2 - 129.6
4-Bromofluorobenzene (4-BFB)	0.0976	0.105	mg/L	1	0.100	98	105	77.9 - 119.8

Matrix Spike (MS-1) Spiked Sample: 223206

QC Batch: 67848
Prep Batch: 58042

Date Analyzed: 2010-02-25
QC Preparation: 2010-02-25

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.84	mg/L	5	0.500	1.3635	95	77.3 - 117.4
Toluene	0.475	mg/L	5	0.500	0.0375	88	75 - 111.8
Ethylbenzene	0.479	mg/L	5	0.500	0.0456	87	78.8 - 106.6
Xylene	1.37	mg/L	5	1.50	0.0733	86	68.9 - 114

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.81	mg/L	5	0.500	1.3635	89	77.3 - 117.4	2	20
Toluene	0.482	mg/L	5	0.500	0.0375	89	75 - 111.8	2	20
Ethylbenzene	0.491	mg/L	5	0.500	0.0456	89	78.8 - 106.6	2	20
Xylene	1.41	mg/L	5	1.50	0.0733	89	68.9 - 114	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.434	0.427	mg/L	5	0.5	87	85	76.3 - 129.8
4-Bromofluorobenzene (4-BFB)	0.455	0.455	mg/L	5	0.5	91	91	75.2 - 112.8

Matrix Spike (MS-1) Spiked Sample: 223382

QC Batch: 67875
Prep Batch: 58049

Date Analyzed: 2010-02-26
QC Preparation: 2010-02-26

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0895	mg/L	1	0.100	<0.000300	90	77.3 - 117.4
Toluene	0.0887	mg/L	1	0.100	<0.000200	89	75 - 111.8
Ethylbenzene	0.0889	mg/L	1	0.100	<0.000200	89	78.8 - 106.6
Xylene	0.268	mg/L	1	0.300	<0.000900	89	68.9 - 114

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

Report Date: March 1, 2010
700376.049.01

Work Order: 10021935
C.S. Cayler

Page Number: 11 of 12
Hobbs, NM

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0915	mg/L	1	0.100	<0.000300	92	77.3 - 117.4	2	20
Toluene	0.0909	mg/L	1	0.100	<0.000200	91	75 - 111.8	2	20
Ethylbenzene	0.0915	mg/L	1	0.100	<0.000200	92	78.8 - 106.6	3	20
Xylene	0.276	mg/L	1	0.300	<0.000900	92	68.9 - 114	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0849	0.0809	mg/L	1	0.1	85	81	76.3 - 129.8
4-Bromofluorobenzene (4-BFB)	0.100	0.0951	mg/L	1	0.1	100	95	75.2 - 112.8

Standard (CCV-1)

QC Batch: 67848

Date Analyzed: 2010-02-25

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0902	90	80 - 120	2010-02-25
Toluene		mg/L	0.100	0.0905	90	80 - 120	2010-02-25
Ethylbenzene		mg/L	0.100	0.0900	90	80 - 120	2010-02-25
Xylene		mg/L	0.300	0.271	90	80 - 120	2010-02-25

Standard (CCV-2)

QC Batch: 67848

Date Analyzed: 2010-02-25

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0907	91	80 - 120	2010-02-25
Toluene		mg/L	0.100	0.0898	90	80 - 120	2010-02-25
Ethylbenzene		mg/L	0.100	0.0889	89	80 - 120	2010-02-25
Xylene		mg/L	0.300	0.268	89	80 - 120	2010-02-25

Standard (CCV-3)

QC Batch: 67848

Date Analyzed: 2010-02-25

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0919	92	80 - 120	2010-02-25

continued ...

Report Date: March 1, 2010
700376.049.01

Work Order: 10021935
C.S. Cayler

Page Number: 12 of 12
Hobbs, NM

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/L	0.100	0.0910	91	80 - 120	2010-02-25
Ethylbenzene		mg/L	0.100	0.0904	90	80 - 120	2010-02-25
Xylene		mg/L	0.300	0.272	91	80 - 120	2010-02-25

Standard (CCV-1)

QC Batch: 67875

Date Analyzed: 2010-02-26

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0900	90	80 - 120	2010-02-26
Toluene		mg/L	0.100	0.0893	89	80 - 120	2010-02-26
Ethylbenzene		mg/L	0.100	0.0890	89	80 - 120	2010-02-26
Xylene		mg/L	0.300	0.269	90	80 - 120	2010-02-26

Standard (CCV-2)

QC Batch: 67875

Date Analyzed: 2010-02-26

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0905	90	80 - 120	2010-02-26
Toluene		mg/L	0.100	0.0901	90	80 - 120	2010-02-26
Ethylbenzene		mg/L	0.100	0.0893	89	80 - 120	2010-02-26
Xylene		mg/L	0.300	0.270	90	80 - 120	2010-02-26

Standard (CCV-3)

QC Batch: 67875

Date Analyzed: 2010-02-26

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0918	92	80 - 120	2010-02-26
Toluene		mg/L	0.100	0.0911	91	80 - 120	2010-02-26
Ethylbenzene		mg/L	0.100	0.0906	91	80 - 120	2010-02-26
Xylene		mg/L	0.300	0.273	91	80 - 120	2010-02-26

TraceAnalysis, Inc.

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Fax #:

E-mail: SKillingworth@talan.com

Contact Person: Steve Killingworth

Invoice to: PHILIPS SRS# 2002-10250 Jason Henry

Project #: 200376-049-A

Project Location (including state): Lovington, N.M.

Sampler Signature: C.S. Caylor

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		Turn Around Time if different from standard
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	DATE	TIME	
203200	MW-6	3	VOL	X									2/18/02	1235	
207	MW-9	1											1144		
208	MW-10	1											1140		
209	MW-11	1											1137		
210	MW-13	1											1229		
211	MW-14	1											1222		
212	MW-15	1											1213		
213	MW-16	1											1203		
214	MW-17	1											1153		
215	MW-18	1											1135		

Relinquished by: <u>John Talabek</u>	Company: <u>Talabek</u>	Date: <u>2/19</u>	Time: <u>0700</u>	Received by: <u>SKillingworth</u>	Company: <u>Trace</u>	Date: <u>2/19</u>	Time: <u>0700</u>	INST OBS COR
Relinquished by: <u>SKillingworth</u>	Company: <u>Talabek</u>	Date: <u>2/19</u>	Time: <u>0700</u>	Received by: <u>SKillingworth</u>	Company: <u>Trace</u>	Date: <u>2/19</u>	Time: <u>0700</u>	INST OBS COR
Relinquished by: <u>SKillingworth</u>	Company: <u>Talabek</u>	Date: <u>2/19</u>	Time: <u>0700</u>	Received by: <u>SKillingworth</u>	Company: <u>Trace</u>	Date: <u>2/19</u>	Time: <u>0700</u>	INST OBS COR

REMARKS: X All tests Midland

LAB USE ONLY

Initials: SK N

Headspace Y/N: NA

3.0c

Log-In-Review

Dry Weight Basis Required ☐

TRRP Report Required ☐

Check If Special Reporting Limits Are Needed ☐

Summary Report

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

Report Date: June 14, 2010

Work Order: 10061013



Project Location: Lovington, NM
Project Number: 700376.099.01

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
234176	MW-6	water	2010-06-09	11:05	2010-06-10
234177	MW-9	water	2010-06-09	11:30	2010-06-10
234178	MW-10	water	2010-06-09	11:31	2010-06-10
234179	MW-11	water	2010-06-09	11:39	2010-06-10
234180	MW-13	water	2010-06-09	11:07	2010-06-10
234181	MW-14	water	2010-06-09	11:12	2010-06-10
234182	MW-15	water	2010-06-09	11:10	2010-06-10
234183	MW-16	water	2010-06-09	11:24	2010-06-10
234184	MW-17	water	2010-06-09	11:23	2010-06-10
234185	MW-18	water	2010-06-09	11:45	2010-06-10

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
234176 - MW-6	0.0953	0.00890	<0.00500	<0.00500
234177 - MW-9	0.0145	<0.00100	<0.00100	<0.00100
234178 - MW-10	0.00300	<0.00100	<0.00100	<0.00100
234179 - MW-11	<0.00100	<0.00100	<0.00100	<0.00100
234180 - MW-13	0.0320	<0.00100	<0.00100	0.00480
234181 - MW-14	<0.00100	<0.00100	<0.00100	<0.00100
234182 - MW-15	<0.00100	<0.00100	<0.00100	<0.00100
234183 - MW-16	0.0385	<0.00100	<0.00100	0.00340
234184 - MW-17	<0.00100	<0.00100	<0.00100	<0.00100
234185 - MW-18	<0.00100	<0.00100	<0.00100	<0.00100



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

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

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

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: June 14, 2010

Work Order: 10061013



Project Location: Lovington, NM
Project Number: 700376.099.01

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
234176	MW-6	water	2010-06-09	11:05	2010-06-10
234177	MW-9	water	2010-06-09	11:30	2010-06-10
234178	MW-10	water	2010-06-09	11:31	2010-06-10
234179	MW-11	water	2010-06-09	11:39	2010-06-10
234180	MW-13	water	2010-06-09	11:07	2010-06-10
234181	MW-14	water	2010-06-09	11:12	2010-06-10
234182	MW-15	water	2010-06-09	11:10	2010-06-10
234183	MW-16	water	2010-06-09	11:24	2010-06-10
234184	MW-17	water	2010-06-09	11:23	2010-06-10
234185	MW-18	water	2010-06-09	11:45	2010-06-10

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



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

Standard Flags

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

Case Narrative

Samples for project were received by TraceAnalysis, Inc. on 2010-06-10 and assigned to work order 10061013. Samples for work order 10061013 were received intact without headspace and at a temperature of 3.7 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	60669	2010-06-11 at 08:30	70837	2010-06-11 at 23:57
BTEX	S 8021B	60678	2010-06-12 at 15:00	70842	2010-06-12 at 17:23

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 10061013 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: 234176 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 70837
Prep Batch: 60669

Analytical Method: S 8021B
Date Analyzed: 2010-06-11
Sample Preparation: 2010-06-11

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0953	mg/L	5	0.00100
Toluene		0.00890	mg/L	5	0.00100
Ethylbenzene		<0.00500	mg/L	5	0.00100
Xylene		<0.00500	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.453	mg/L	5	0.500	91	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.324	mg/L	5	0.500	65	51.1 - 128

Sample: 234177 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 70837
Prep Batch: 60669

Analytical Method: S 8021B
Date Analyzed: 2010-06-11
Sample Preparation: 2010-06-11

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0145	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0966	mg/L	1	0.100	97	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0707	mg/L	1	0.100	71	51.1 - 128

Sample: 234178 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 70837
Prep Batch: 60669

Analytical Method: S 8021B
Date Analyzed: 2010-06-11
Sample Preparation: 2010-06-11

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

Report Date: June 14, 2010
700376.099.01

Work Order: 10061013

Page Number: 5 of 12
Lovington, NM

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00300	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0901	mg/L	1	0.100	90	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0679	mg/L	1	0.100	68	51.1 - 128

Sample: 234179 - MW-11

Laboratory: Midland
Analysis: BTEX
QC Batch: 70837
Prep Batch: 60669

Analytical Method: S 8021B
Date Analyzed: 2010-06-11
Sample Preparation: 2010-06-11

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0942	mg/L	1	0.100	94	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0701	mg/L	1	0.100	70	51.1 - 128

Sample: 234180 - MW-13

Laboratory: Midland
Analysis: BTEX
QC Batch: 70837
Prep Batch: 60669

Analytical Method: S 8021B
Date Analyzed: 2010-06-11
Sample Preparation: 2010-06-11

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0320	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00480	mg/L	1	0.00100

Report Date: June 14, 2010
700376.099.01

Work Order: 10061013

Page Number: 6 of 12
Lovington, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0943	mg/L	1	0.100	94	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0708	mg/L	1	0.100	71	51.1 - 128

Sample: 234181 - MW-14

Laboratory: Midland

Analysis: BTEX

QC Batch: 70837

Prep Batch: 60669

Analytical Method: S 8021B

Date Analyzed: 2010-06-11

Sample Preparation: 2010-06-11

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0932	mg/L	1	0.100	93	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0679	mg/L	1	0.100	68	51.1 - 128

Sample: 234182 - MW-15

Laboratory: Midland

Analysis: BTEX

QC Batch: 70842

Prep Batch: 60678

Analytical Method: S 8021B

Date Analyzed: 2010-06-12

Sample Preparation: 2010-06-12

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0979	mg/L	1	0.100	98	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0704	mg/L	1	0.100	70	51.1 - 128

Report Date: June 14, 2010
700376.099.01

Work Order: 10061013

Page Number: 7 of 12
Lovington, NM

Sample: 234183 - MW-16

Laboratory: Midland
Analysis: BTEX
QC Batch: 70842
Prep Batch: 60678

Analytical Method: S 8021B
Date Analyzed: 2010-06-12
Sample Preparation: 2010-06-12

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0385	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00340	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0954	mg/L	1	0.100	95	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0695	mg/L	1	0.100	70	51.1 - 128

Sample: 234184 - MW-17

Laboratory: Midland
Analysis: BTEX
QC Batch: 70842
Prep Batch: 60678

Analytical Method: S 8021B
Date Analyzed: 2010-06-12
Sample Preparation: 2010-06-12

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0990	mg/L	1	0.100	99	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0704	mg/L	1	0.100	70	51.1 - 128

Sample: 234185 - MW-18

Laboratory: Midland
Analysis: BTEX
QC Batch: 70842
Prep Batch: 60678

Analytical Method: S 8021B
Date Analyzed: 2010-06-12
Sample Preparation: 2010-06-12

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

Report Date: June 14, 2010
700376.099.01

Work Order: 10061013

Page Number: 8 of 12
Lovington, NM

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0965	mg/L	1	0.100	96	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0707	mg/L	1	0.100	71	51.1 - 128

Method Blank (1) QC Batch: 70837

QC Batch: 70837
Prep Batch: 60669

Date Analyzed: 2010-06-11
QC Preparation: 2010-06-11

Analyzed By: AG
Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0895	mg/L	1	0.100	90	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.0641	mg/L	1	0.100	64	47.3 - 116

Method Blank (1) QC Batch: 70842

QC Batch: 70842
Prep Batch: 60678

Date Analyzed: 2010-06-12
QC Preparation: 2010-06-12

Analyzed By: AG
Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0927	mg/L	1	0.100	93	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.0678	mg/L	1	0.100	68	47.3 - 116

Laboratory Control Spike (LCS-1)

QC Batch: 70837
Prep Batch: 60669

Date Analyzed: 2010-06-11
QC Preparation: 2010-06-11

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0940	mg/L	1	0.100	<0.000600	94	82.9 - 108
Toluene	0.0936	mg/L	1	0.100	<0.000600	94	82.7 - 107
Ethylbenzene	0.0904	mg/L	1	0.100	<0.000800	90	78.8 - 106
Xylene	0.272	mg/L	1	0.300	<0.000767	91	79.3 - 106

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0951	mg/L	1	0.100	<0.000600	95	82.9 - 108	1	20
Toluene	0.0949	mg/L	1	0.100	<0.000600	95	82.7 - 107	1	20
Ethylbenzene	0.0927	mg/L	1	0.100	<0.000800	93	78.8 - 106	2	20
Xylene	0.278	mg/L	1	0.300	<0.000767	93	79.3 - 106	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0865	0.0897	mg/L	1	0.100	86	90	67.3 - 113
4-Bromofluorobenzene (4-BFB)	0.0812	0.0835	mg/L	1	0.100	81	84	68.2 - 124

Laboratory Control Spike (LCS-1)

QC Batch: 70842
Prep Batch: 60678

Date Analyzed: 2010-06-12
QC Preparation: 2010-06-12

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0956	mg/L	1	0.100	<0.000600	96	82.9 - 108
Toluene	0.0958	mg/L	1	0.100	<0.000600	96	82.7 - 107
Ethylbenzene	0.0935	mg/L	1	0.100	<0.000800	94	78.8 - 106
Xylene	0.282	mg/L	1	0.300	<0.000767	94	79.3 - 106

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0966	mg/L	1	0.100	<0.000600	97	82.9 - 108	1	20
Toluene	0.0964	mg/L	1	0.100	<0.000600	96	82.7 - 107	1	20
Ethylbenzene	0.0944	mg/L	1	0.100	<0.000800	94	78.8 - 106	1	20
Xylene	0.285	mg/L	1	0.300	<0.000767	95	79.3 - 106	1	20

Report Date: June 14, 2010
700376.099.01

Work Order: 10061013

Page Number: 10 of 12
Lovington, NM

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0987	0.0965	mg/L	1	0.100	99	96	67.3 - 113
4-Bromofluorobenzene (4-BFB)	0.0897	0.0879	mg/L	1	0.100	90	88	68.2 - 124

Matrix Spike (MS-1) Spiked Sample: 234176

QC Batch: 70837
Prep Batch: 60669

Date Analyzed: 2010-06-11
QC Preparation: 2010-06-11

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.565	mg/L	5	0.500	0.0953	94	77.9 - 114
Toluene	0.468	mg/L	5	0.500	0.0089	92	78.3 - 111
Ethylbenzene	0.445	mg/L	5	0.500	<0.00400	89	75.3 - 110
Xylene	1.34	mg/L	5	1.50	<0.00384	89	75.7 - 109

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.565	mg/L	5	0.500	0.0953	94	77.9 - 114	0	20
Toluene	0.468	mg/L	5	0.500	0.0089	94	78.3 - 111	0	20
Ethylbenzene	0.448	mg/L	5	0.500	<0.00400	88	75.3 - 110	1	20
Xylene	1.35	mg/L	5	1.50	<0.00384	90	75.7 - 109	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.424	0.451	mg/L	5	0.5	85	90	68.3 - 107
4-Bromofluorobenzene (4-BFB)	0.392	0.422	mg/L	5	0.5	78	84	60.1 - 135

Matrix Spike (MS-1) Spiked Sample: 234396

QC Batch: 70842
Prep Batch: 60678

Date Analyzed: 2010-06-12
QC Preparation: 2010-06-12

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	4.73	mg/L	20	2.00	2.6847	102	77.9 - 114
Toluene	1.89	mg/L	20	2.00	0.043	92	78.3 - 111
Ethylbenzene	1.86	mg/L	20	2.00	0.0461	91	75.3 - 110
Xylene	5.52	mg/L	20	6.00	<0.0153	92	75.7 - 109

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	4.88	mg/L	20	2.00	2.6847	110	77.9 - 114	3	20
Toluene	1.94	mg/L	20	2.00	0.043	95	78.3 - 111	3	20
Ethylbenzene	1.92	mg/L	20	2.00	0.0461	94	75.3 - 110	3	20
Xylene	5.68	mg/L	20	6.00	<0.0153	95	75.7 - 109	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.88	1.83	mg/L	20	2	94	92	68.3 - 107
4-Bromofluorobenzene (4-BFB)	1.75	1.69	mg/L	20	2	88	84	60.1 - 135

Standard (CCV-1)

QC Batch: 70837

Date Analyzed: 2010-06-11

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0953	95	80 - 120	2010-06-11
Toluene		mg/L	0.100	0.0950	95	80 - 120	2010-06-11
Ethylbenzene		mg/L	0.100	0.0922	92	80 - 120	2010-06-11
Xylene		mg/L	0.300	0.278	93	80 - 120	2010-06-11

Standard (CCV-2)

QC Batch: 70837

Date Analyzed: 2010-06-11

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0939	94	80 - 120	2010-06-11
Toluene		mg/L	0.100	0.0936	94	80 - 120	2010-06-11
Ethylbenzene		mg/L	0.100	0.0910	91	80 - 120	2010-06-11
Xylene		mg/L	0.300	0.274	91	80 - 120	2010-06-11

Standard (CCV-3)

QC Batch: 70837

Date Analyzed: 2010-06-11

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0952	95	80 - 120	2010-06-11

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/L	0.100	0.0952	95	80 - 120	2010-06-11
Ethylbenzene		mg/L	0.100	0.0930	93	80 - 120	2010-06-11
Xylene		mg/L	0.300	0.279	93	80 - 120	2010-06-11

Standard (CCV-1)

QC Batch: 70842

Date Analyzed: 2010-06-12

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0922	92	80 - 120	2010-06-12
Toluene		mg/L	0.100	0.0919	92	80 - 120	2010-06-12
Ethylbenzene		mg/L	0.100	0.0910	91	80 - 120	2010-06-12
Xylene		mg/L	0.300	0.274	91	80 - 120	2010-06-12

Standard (CCV-2)

QC Batch: 70842

Date Analyzed: 2010-06-12

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0957	96	80 - 120	2010-06-12
Toluene		mg/L	0.100	0.0955	96	80 - 120	2010-06-12
Ethylbenzene		mg/L	0.100	0.0944	94	80 - 120	2010-06-12
Xylene		mg/L	0.300	0.285	95	80 - 120	2010-06-12

Standard (CCV-3)

QC Batch: 70842

Date Analyzed: 2010-06-12

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0932	93	80 - 120	2010-06-12
Toluene		mg/L	0.100	0.0928	93	80 - 120	2010-06-12
Ethylbenzene		mg/L	0.100	0.0904	90	80 - 120	2010-06-12
Xylene		mg/L	0.300	0.272	91	80 - 120	2010-06-12

Summary Report

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

Report Date: October 1, 2010

Work Order: 10092305



Project Location: Hobbs, NM
Project Name: C.S. Cayler
Project Number: 700376.049.01
SRS #: 2002-10250

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
245487	MW-6	water	2010-09-22	12:43	2010-09-23
245488	MW-9	water	2010-09-22	11:55	2010-09-23
245489	MW-11	water	2010-09-22	12:10	2010-09-23
245490	MW-13	water	2010-09-22	12:35	2010-09-23
245491	MW-14	water	2010-09-22	12:45	2010-09-23
245492	MW-15	water	2010-09-22	12:55	2010-09-23
245493	MW-16	water	2010-09-22	13:07	2010-09-23
245494	MW-17	water	2010-09-22	11:45	2010-09-23
245495	MW-18	water	2010-09-22	12:25	2010-09-23

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
245487 - MW-6	0.157	0.0180	<0.00500	<0.00500
245488 - MW-9	0.0385	<0.00100	<0.00100	<0.00100
245489 - MW-11	<0.00100	<0.00100	<0.00100	<0.00100
245490 - MW-13	0.0507	<0.00100	<0.00100	0.00410
245491 - MW-14	<0.00100	<0.00100	<0.00100	<0.00100
245492 - MW-15	<0.00100	<0.00100	<0.00100	<0.00100
245493 - MW-16	0.0937	<0.00100	<0.00100	0.00250
245494 - MW-17	<0.00100	<0.00100	<0.00100	<0.00100
245495 - MW-18	<0.00100	<0.00100	<0.00100	<0.00100



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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

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

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: October 1, 2010

Work Order: 10092305



Project Location: Hobbs, NM
Project Name: C.S. Caylor
Project Number: 700376.049.01
SRS #: 2002-10250

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
245487	MW-6	water	2010-09-22	12:43	2010-09-23
245488	MW-9	water	2010-09-22	11:55	2010-09-23
245489	MW-11	water	2010-09-22	12:10	2010-09-23
245490	MW-13	water	2010-09-22	12:35	2010-09-23
245491	MW-14	water	2010-09-22	12:45	2010-09-23
245492	MW-15	water	2010-09-22	12:55	2010-09-23
245493	MW-16	water	2010-09-22	13:07	2010-09-23
245494	MW-17	water	2010-09-22	11:45	2010-09-23
245495	MW-18	water	2010-09-22	12:25	2010-09-23

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

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



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

Standard Flags

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

Case Narrative

Samples for project C.S. Cayler were received by TraceAnalysis, Inc. on 2010-09-23 and assigned to work order 10092305. Samples for work order 10092305 were received intact without headspace and at a temperature of 3.3 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	63387	2010-09-27 at 13:00	73890	2010-09-27 at 14:02
BTEX	S 8021B	63498	2010-09-30 at 08:00	74006	2010-09-30 at 08:52

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10092305 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: October 1, 2010
700376.049.01

Work Order: 10092305
C.S. Cayler

Page Number: 4 of 12
Hobbs, NM

Analytical Report

Sample: 245487 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 73890
Prep Batch: 63387

Analytical Method: S 8021B
Date Analyzed: 2010-09-27
Sample Preparation: 2010-09-27

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.157	mg/L	5	0.00100
Toluene		0.0180	mg/L	5	0.00100
Ethylbenzene		<0.00500	mg/L	5	0.00100
Xylene		<0.00500	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.448	mg/L	5	0.500	90	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.421	mg/L	5	0.500	84	51.1 - 128

Sample: 245488 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 73890
Prep Batch: 63387

Analytical Method: S 8021B
Date Analyzed: 2010-09-27
Sample Preparation: 2010-09-27

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0385	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0869	mg/L	1	0.100	87	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0878	mg/L	1	0.100	88	51.1 - 128

Sample: 245489 - MW-11

Laboratory: Midland
Analysis: BTEX
QC Batch: 73890
Prep Batch: 63387

Analytical Method: S 8021B
Date Analyzed: 2010-09-27
Sample Preparation: 2010-09-27

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

Report Date: October 1, 2010
700376.049.01

Work Order: 10092305
C.S. Cayler

Page Number: 5 of 12
Hobbs, NM

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0900	mg/L	1	0.100	90	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0890	mg/L	1	0.100	89	51.1 - 128

Sample: 245490 - MW-13

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

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

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0507	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00410	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0882	mg/L	1	0.100	88	66.2 - 107
4-Bromofluorobenzene (4-BFB)		0.0850	mg/L	1	0.100	85	39 - 138

Sample: 245491 - MW-14

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

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

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

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

Report Date: October 1, 2010
700376.049.01

Work Order: 10092305
C.S. Cayler

Page Number: 6 of 12
Hobbs, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0931	mg/L	1	0.100	93	66.2 - 107
4-Bromofluorobenzene (4-BFB)		0.0887	mg/L	1	0.100	89	39 - 138

Sample: 245492 - MW-15

Laboratory: Midland

Analysis: BTEX

QC Batch: 74006

Prep Batch: 63498

Analytical Method: S 8021B

Date Analyzed: 2010-09-30

Sample Preparation: 2010-09-30

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0891	mg/L	1	0.100	89	66.2 - 107
4-Bromofluorobenzene (4-BFB)		0.0862	mg/L	1	0.100	86	39 - 138

Sample: 245493 - MW-16

Laboratory: Midland

Analysis: BTEX

QC Batch: 74006

Prep Batch: 63498

Analytical Method: S 8021B

Date Analyzed: 2010-09-30

Sample Preparation: 2010-09-30

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0937	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00250	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0885	mg/L	1	0.100	88	66.2 - 107
4-Bromofluorobenzene (4-BFB)		0.0852	mg/L	1	0.100	85	39 - 138

Report Date: October 1, 2010
700376.049.01

Work Order: 10092305
C.S. Cayler

Page Number: 7 of 12
Hobbs, NM

Sample: 245494 - MW-17

Laboratory: Midland

Analysis: BTEX

QC Batch: 74006

Prep Batch: 63498

Analytical Method: S 8021B

Date Analyzed: 2010-09-30

Sample Preparation: 2010-09-30

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0909	mg/L	1	0.100	91	66.2 - 107
4-Bromofluorobenzene (4-BFB)		0.0880	mg/L	1	0.100	88	39 - 138

Sample: 245495 - MW-18

Laboratory: Midland

Analysis: BTEX

QC Batch: 74006

Prep Batch: 63498

Analytical Method: S 8021B

Date Analyzed: 2010-09-30

Sample Preparation: 2010-09-30

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0841	mg/L	1	0.100	84	66.2 - 107
4-Bromofluorobenzene (4-BFB)		0.0854	mg/L	1	0.100	85	39 - 138

Method Blank (1) QC Batch: 73890

QC Batch: 73890

Prep Batch: 63387

Date Analyzed: 2010-09-27

QC Preparation: 2010-09-27

Analyzed By: AG

Prepared By: AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0938	mg/L	1	0.100	94	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.0898	mg/L	1	0.100	90	47.3 - 116

Method Blank (1) QC Batch: 74006

QC Batch: 74006
Prep Batch: 63498

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

Analyzed By: AG
Prepared By: AG

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

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

Laboratory Control Spike (LCS-1)

QC Batch: 73890
Prep Batch: 63387

Date Analyzed: 2010-09-27
QC Preparation: 2010-09-27

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0843	mg/L	1	0.100	<0.000600	84	82.9 - 118
Toluene	0.0867	mg/L	1	0.100	<0.000600	87	82.7 - 117
Ethylbenzene	0.0886	mg/L	1	0.100	<0.000800	89	78.8 - 116
Xylene	0.264	mg/L	1	0.300	<0.000767	88	79.3 - 116

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0832	mg/L	1	0.100	<0.000600	83	82.9 - 118	1	20
Toluene	0.0856	mg/L	1	0.100	<0.000600	86	82.7 - 117	1	20
Ethylbenzene	0.0877	mg/L	1	0.100	<0.000800	88	78.8 - 116	1	20
Xylene	0.261	mg/L	1	0.300	<0.000767	87	79.3 - 116	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0939	0.0901	mg/L	1	0.100	94	90	67.3 - 113
4-Bromofluorobenzene (4-BFB)	0.0905	0.0881	mg/L	1	0.100	90	88	68.2 - 134

Laboratory Control Spike (LCS-1)

QC Batch: 74006
Prep Batch: 63498

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

Analyzed By: AG
Prepared By: AG

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

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

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

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

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

Matrix Spike (MS-1) Spiked Sample: 245487

QC Batch: 73890
Prep Batch: 63387

Date Analyzed: 2010-09-27
QC Preparation: 2010-09-27

Analyzed By: AG
Prepared By: AG

Report Date: October 1, 2010
700376.049.01

Work Order: 10092305
C.S. Cayler

Page Number: 10 of 12
Hobbs, NM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.624	mg/L	5	0.500	0.1566	93	77.9 - 114
Toluene	0.472	mg/L	5	0.500	0.018	91	78.3 - 111
Ethylbenzene	0.460	mg/L	5	0.500	<0.00400	92	75.3 - 110
Xylene	1.37	mg/L	5	1.50	<0.00384	91	75.7 - 109

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.580	mg/L	5	0.500	0.1566	85	77.9 - 114	7	20
Toluene	0.439	mg/L	5	0.500	0.018	84	78.3 - 111	7	20
Ethylbenzene	0.427	mg/L	5	0.500	<0.00400	85	75.3 - 110	7	20
Xylene	1.28	mg/L	5	1.50	<0.00384	85	75.7 - 109	7	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.468	0.449	mg/L	5	0.5	94	90	68.3 - 107
4-Bromofluorobenzene (4-BFB)	0.445	0.427	mg/L	5	0.5	89	85	60.1 - 135

Matrix Spike (MS-1) Spiked Sample: 245902

QC Batch: 74006
Prep Batch: 63498

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

Analyzed By: AG
Prepared By: AG

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

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

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

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0871	0.0897	mg/L	1	0.1	87	90	75.1 - 117

continued ...

Report Date: October 1, 2010
700376.049.01

Work Order: 10092305
C.S. Cayler

Page Number: 11 of 12
Hobbs, NM

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	0.0866	0.0900	mg/L	1	0.1	87	90	31.3 - 143

Standard (CCV-2)

QC Batch: 73890

Date Analyzed: 2010-09-27

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0857	86	80 - 120	2010-09-27
Toluene		mg/L	0.100	0.0881	88	80 - 120	2010-09-27
Ethylbenzene		mg/L	0.100	0.0898	90	80 - 120	2010-09-27
Xylene		mg/L	0.300	0.266	89	80 - 120	2010-09-27

Standard (CCV-3)

QC Batch: 73890

Date Analyzed: 2010-09-27

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0824	82	80 - 120	2010-09-27
Toluene		mg/L	0.100	0.0839	84	80 - 120	2010-09-27
Ethylbenzene		mg/L	0.100	0.0841	84	80 - 120	2010-09-27
Xylene		mg/L	0.300	0.250	83	80 - 120	2010-09-27

Standard (CCV-1)

QC Batch: 74006

Date Analyzed: 2010-09-30

Analyzed By: AG

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

Standard (CCV-2)

QC Batch: 74006

Date Analyzed: 2010-09-30

Analyzed By: AG

Report Date: October 1, 2010
700376.049.01

Work Order: 10092305
C.S. Cayler

Page Number: 12 of 12
Hobbs, NM

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

Standard (CCV-3)

QC Batch: 74006

Date Analyzed: 2010-09-30

Analyzed By: AG

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

TraceAnalysis, Inc.

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

Company Name: <u>Talton LPE</u>		Phone #: <u>432-522-2153</u>											
Address: <u>(Street, City, Zip)</u> <u>2901 Rankin Hwy, Midland, TX</u>		Fax #: <u>432-522-2180</u>											
Contact Person: <u>Steve Killingsworth</u>		E-mail: <u>SKillingsworth@TaltonLPE.com</u>											
Invoice to: <u>(If different from above)</u> <u>Plains Pipeline - JRS # 2002-10250</u>		Project Name: <u>LS. Layler</u>											
Project #: <u>700376.049.01</u>		Sampler Signature: <u>[Signature]</u>											
Project Location (including state): <u>Hobbs, NM</u>													
LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				DATE	TIME
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH		
487	MW-6	3	✓	✓				✓				9/22	1243
488	MW-9	1	✓										1155
489	MW-11	1	✓										1210
490	MW-13	1	✓										1235
491	MW-14	1	✓										1245
492	MW-15	1	✓										1255
493	MW-16	1	✓										1307
494	MW-17	1	✓										1145
495	MW-18	1	✓										1225
LAB USE ONLY	REMARKS:												
MTBE 8021 / 602 / 8260 / 624	✓												
BTEX 8021 / 602 / 8260 / 624	✓												
TPH 418.1 / TX1005 / TX1005 Ext(C35)	✓												
TPH 8015 GRO / DRO / TVHC	✓												
PAH 8270 / 625	✓												
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	✓												
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	✓												
TCLP Volatiles	✓												
TCLP Semi Volatiles	✓												
TCLP Pesticides	✓												
RCI	✓												
GC/MS Vol. 8260 / 624	✓												
GC/MS Semi. Vol. 8270 / 625	✓												
PCB's 8082 / 608	✓												
Pesticides 8081 / 608	✓												
BOD, TSS, pH	✓												
Moisture Content	✓												
Cl, F, S04, NO3, NO2, Alkalinity	✓												
Na, Ca, Mg, K, TDS, EC	✓												
Turn Around Time if different from standard	✓												
LAB USE ONLY	REMARKS:												
INST OBS 3.3 °C	✓												
INST COR 0.0 °C	✓												
INST OBS 8:50	✓												
INST COR 0.0 °C	✓												
INST OBS 0.0 °C	✓												
INST COR 0.0 °C	✓												
INST OBS 0.0 °C	✓												
INST COR 0.0 °C	✓												
LAB USE ONLY	REMARKS:												
Intact N	✓												
Headspace Y / N / NA	✓												
Log-In-Review	✓												
Dry Weight Basis Required	✓												
TRRP Report Required	✓												
Check if Special Reporting Limits Are Needed	✓												
LAB USE ONLY	REMARKS:												
ALL tests - Midland	✓												

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

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Carrier #

Summary Report

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

Report Date: December 22, 2010

Work Order: 10121732



Project Location: Hobbs, NM
Project Name: C.S. Cayler
Project Number: 700376.049.01
SRS #: 2002-10250

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
253703	MW 6	water	2010-12-17	11:45	2010-12-17
253704	MW 9	water	2010-12-17	10:30	2010-12-17
253705	MW 10	water	2010-12-17	12:20	2010-12-17
253706	MW 11	water	2010-12-17	12:13	2010-12-17
253707	MW 13	water	2010-12-17	11:50	2010-12-17
253708	MW 14	water	2010-12-17	11:30	2010-12-17
253709	MW 15	water	2010-12-17	11:05	2010-12-17
253710	MW 16	water	2010-12-17	11:15	2010-12-17
253711	MW 17	water	2010-12-17	10:45	2010-12-17
253712	MW 18	water	2010-12-17	12:05	2010-12-17

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
253703 - MW 6	0.0814	<0.00500	<0.00500	<0.00500
253704 - MW 9	0.00700	<0.00100	<0.00100	<0.00100
253705 - MW 10	0.0192	<0.00100	<0.00100	<0.00100
253706 - MW 11	<0.00100	<0.00100	<0.00100	<0.00100
253707 - MW 13	0.0908	<0.00100	<0.00100	0.0302
253708 - MW 14	<0.00100	<0.00100	<0.00100	<0.00100
253709 - MW 15	<0.00100	<0.00100	<0.00100	<0.00100
253710 - MW 16	0.0127	<0.00100	<0.00100	0.00810
253711 - MW 17	<0.00100	<0.00100	<0.00100	<0.00100
253712 - MW 18	<0.00100	<0.00100	<0.00100	<0.00100



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E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

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

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: December 22, 2010

Work Order: 10121732



Project Location: Hobbs, NM
Project Name: C.S. Cayler
Project Number: 700376.049.01
SRS #: 2002-10250

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
253703	MW 6	water	2010-12-17	11:45	2010-12-17
253704	MW 9	water	2010-12-17	10:30	2010-12-17
253705	MW 10	water	2010-12-17	12:20	2010-12-17
253706	MW 11	water	2010-12-17	12:13	2010-12-17
253707	MW 13	water	2010-12-17	11:50	2010-12-17
253708	MW 14	water	2010-12-17	11:30	2010-12-17
253709	MW 15	water	2010-12-17	11:05	2010-12-17
253710	MW 16	water	2010-12-17	11:15	2010-12-17
253711	MW 17	water	2010-12-17	10:45	2010-12-17
253712	MW 18	water	2010-12-17	12:05	2010-12-17

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



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

Standard Flags

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

Case Narrative

Samples for project C.S. Cayler were received by TraceAnalysis, Inc. on 2010-12-17 and assigned to work order 10121732. Samples for work order 10121732 were received intact without headspace and at a temperature of 3.2 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	65458	2010-12-20 at 09:03	76325	2010-12-20 at 09:03
BTEX	S 8021B	65499	2010-12-21 at 08:58	76382	2010-12-21 at 08:58

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 10121732 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: 253703 - MW 6

Laboratory: Midland
Analysis: BTEX
QC Batch: 76325
Prep Batch: 65458

Analytical Method: S 8021B
Date Analyzed: 2010-12-20
Sample Preparation: 2010-12-20

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0814	mg/L	5	0.00100
Toluene		<0.00500	mg/L	5	0.00100
Ethylbenzene		<0.00500	mg/L	5	0.00100
Xylene		<0.00500	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.410	mg/L	5	0.500	82	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.420	mg/L	5	0.500	84	51.1 - 128

Sample: 253704 - MW 9

Laboratory: Midland
Analysis: BTEX
QC Batch: 76325
Prep Batch: 65458

Analytical Method: S 8021B
Date Analyzed: 2010-12-20
Sample Preparation: 2010-12-20

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00700	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0849	mg/L	1	0.100	85	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0895	mg/L	1	0.100	90	51.1 - 128

Sample: 253705 - MW 10

Laboratory: Midland
Analysis: BTEX
QC Batch: 76325
Prep Batch: 65458

Analytical Method: S 8021B
Date Analyzed: 2010-12-20
Sample Preparation: 2010-12-20

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

Report Date: December 22, 2010
700376.049.01

Work Order: 10121732
C.S. Cayler

Page Number: 5 of 12
Hobbs, NM

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0192	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0892	mg/L	1	0.100	89	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0947	mg/L	1	0.100	95	51.1 - 128

Sample: 253706 - MW 11

Laboratory: Midland
Analysis: BTEX
QC Batch: 76325
Prep Batch: 65458

Analytical Method: S 8021B
Date Analyzed: 2010-12-20
Sample Preparation: 2010-12-20

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0869	mg/L	1	0.100	87	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0909	mg/L	1	0.100	91	51.1 - 128

Sample: 253707 - MW 13

Laboratory: Midland
Analysis: BTEX
QC Batch: 76382
Prep Batch: 65499

Analytical Method: S 8021B
Date Analyzed: 2010-12-21
Sample Preparation: 2010-12-21

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0908	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.0302	mg/L	1	0.00100

Report Date: December 22, 2010
700376.049.01

Work Order: 10121732
C.S. Cayler

Page Number: 6 of 12
Hobbs, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0863	mg/L	1	0.100	86	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0963	mg/L	1	0.100	96	51.1 - 128

Sample: 253708 - MW 14

Laboratory: Midland

Analysis: BTEX

QC Batch: 76382

Prep Batch: 65499

Analytical Method: S 8021B

Date Analyzed: 2010-12-21

Sample Preparation: 2010-12-21

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0977	mg/L	1	0.100	98	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0956	mg/L	1	0.100	96	51.1 - 128

Sample: 253709 - MW 15

Laboratory: Midland

Analysis: BTEX

QC Batch: 76382

Prep Batch: 65499

Analytical Method: S 8021B

Date Analyzed: 2010-12-21

Sample Preparation: 2010-12-21

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0930	mg/L	1	0.100	93	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0908	mg/L	1	0.100	91	51.1 - 128

Report Date: December 22, 2010
700376.049.01

Work Order: 10121732
C.S. Cayler

Page Number: 7 of 12
Hobbs, NM

Sample: 253710 - MW 16

Laboratory: Midland
Analysis: BTEX
QC Batch: 76382
Prep Batch: 65499

Analytical Method: S 8021B
Date Analyzed: 2010-12-21
Sample Preparation: 2010-12-21

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0127	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00810	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0943	mg/L	1	0.100	94	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0919	mg/L	1	0.100	92	51.1 - 128

Sample: 253711 - MW 17

Laboratory: Midland
Analysis: BTEX
QC Batch: 76382
Prep Batch: 65499

Analytical Method: S 8021B
Date Analyzed: 2010-12-21
Sample Preparation: 2010-12-21

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0963	mg/L	1	0.100	96	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0944	mg/L	1	0.100	94	51.1 - 128

Sample: 253712 - MW 18

Laboratory: Midland
Analysis: BTEX
QC Batch: 76382
Prep Batch: 65499

Analytical Method: S 8021B
Date Analyzed: 2010-12-21
Sample Preparation: 2010-12-21

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

Report Date: December 22, 2010
700376.049.01

Work Order: 10121732
C.S. Cayler

Page Number: 8 of 12
Hobbs, NM

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0945	mg/L	1	0.100	94	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0939	mg/L	1	0.100	94	51.1 - 128

Method Blank (1) QC Batch: 76325

QC Batch: 76325
Prep Batch: 65458

Date Analyzed: 2010-12-20
QC Preparation: 2010-12-20

Analyzed By: ME
Prepared By: ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0815	mg/L	1	0.100	82	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.0857	mg/L	1	0.100	86	47.3 - 116

Method Blank (1) QC Batch: 76382

QC Batch: 76382
Prep Batch: 65499

Date Analyzed: 2010-12-21
QC Preparation: 2010-12-21

Analyzed By: ME
Prepared By: ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0859	mg/L	1	0.100	86	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.0890	mg/L	1	0.100	89	47.3 - 116

Report Date: December 22, 2010
700376.049.01

Work Order: 10121732
C.S. Cayler

Page Number: 9 of 12
Hobbs, NM

Laboratory Control Spike (LCS-1)

QC Batch: 76325
Prep Batch: 65458

Date Analyzed: 2010-12-20
QC Preparation: 2010-12-20

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0905	mg/L	1	0.100	<0.000600	90	82.9 - 118
Toluene	0.0901	mg/L	1	0.100	<0.000600	90	82.7 - 117
Ethylbenzene	0.0889	mg/L	1	0.100	<0.000800	89	78.8 - 116
Xylene	0.270	mg/L	1	0.300	<0.000767	90	79.3 - 116

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0940	mg/L	1	0.100	<0.000600	94	82.9 - 118	4	20
Toluene	0.0932	mg/L	1	0.100	<0.000600	93	82.7 - 117	3	20
Ethylbenzene	0.0926	mg/L	1	0.100	<0.000800	93	78.8 - 116	4	20
Xylene	0.279	mg/L	1	0.300	<0.000767	93	79.3 - 116	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0848	0.0881	mg/L	1	0.100	85	88	67.3 - 113
4-Bromofluorobenzene (4-BFB)	0.0921	0.0958	mg/L	1	0.100	92	96	68.2 - 134

Laboratory Control Spike (LCS-1)

QC Batch: 76382
Prep Batch: 65499

Date Analyzed: 2010-12-21
QC Preparation: 2010-12-21

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0871	mg/L	1	0.100	<0.000600	87	82.9 - 118
Toluene	0.0864	mg/L	1	0.100	<0.000600	86	82.7 - 117
Ethylbenzene	0.0849	mg/L	1	0.100	<0.000800	85	78.8 - 116
Xylene	0.258	mg/L	1	0.300	<0.000767	86	79.3 - 116

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0958	mg/L	1	0.100	<0.000600	96	82.9 - 118	10	20
Toluene	0.0948	mg/L	1	0.100	<0.000600	95	82.7 - 117	9	20
Ethylbenzene	0.0928	mg/L	1	0.100	<0.000800	93	78.8 - 116	9	20
Xylene	0.282	mg/L	1	0.300	<0.000767	94	79.3 - 116	9	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0823	0.0838	mg/L	1	0.100	82	84	67.3 - 113
4-Bromofluorobenzene (4-BFB)	0.0901	0.0908	mg/L	1	0.100	90	91	68.2 - 134

Matrix Spike (MS-1) Spiked Sample: 253703

QC Batch: 76325
Prep Batch: 65458

Date Analyzed: 2010-12-20
QC Preparation: 2010-12-20

Analyzed By: ME
Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.545	mg/L	5	0.500	0.0814	93	77.9 - 114
Toluene	0.463	mg/L	5	0.500	<0.00300	93	78.3 - 111
Ethylbenzene	0.458	mg/L	5	0.500	<0.00400	92	75.3 - 110
Xylene	1.39	mg/L	5	1.50	<0.00384	93	75.7 - 109

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.545	mg/L	5	0.500	0.0814	93	77.9 - 114	0	20
Toluene	0.463	mg/L	5	0.500	<0.00300	93	78.3 - 111	0	20
Ethylbenzene	0.459	mg/L	5	0.500	<0.00400	92	75.3 - 110	0	20
Xylene	1.39	mg/L	5	1.50	<0.00384	93	75.7 - 109	0	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.391	0.392	mg/L	5	0.5	78	78	68.3 - 107
4-Bromofluorobenzene (4-BFB)	0.435	0.437	mg/L	5	0.5	87	87	60.1 - 135

Matrix Spike (MS-1) Spiked Sample: 253734

QC Batch: 76382
Prep Batch: 65499

Date Analyzed: 2010-12-21
QC Preparation: 2010-12-21

Analyzed By: ME
Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.86	mg/L	10	1.00	0.8593	100	77.9 - 114
Toluene	0.959	mg/L	10	1.00	<0.00600	96	78.3 - 111
Ethylbenzene	0.956	mg/L	10	1.00	<0.00800	96	75.3 - 110
Xylene	2.96	mg/L	10	3.00	0.1383	94	75.7 - 109

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

Report Date: December 22, 2010
700376.049.01

Work Order: 10121732
C.S. Cayler

Page Number: 11 of 12
Hobbs, NM

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.86	mg/L	10	1.00	0.8593	100	77.9 - 114	0	20
Toluene	0.955	mg/L	10	1.00	<0.00600	96	78.3 - 111	0	20
Ethylbenzene	0.954	mg/L	10	1.00	<0.00800	95	75.3 - 110	0	20
Xylene	2.95	mg/L	10	3.00	0.1383	94	75.7 - 109	0	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.806	0.880	mg/L	10	1	81	88	68.3 - 107
4-Bromofluorobenzene (4-BFB)	0.882	0.960	mg/L	10	1	88	96	60.1 - 135

Standard (CCV-2)

QC Batch: 76325

Date Analyzed: 2010-12-20

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0989	99	80 - 120	2010-12-20
Toluene		mg/L	0.100	0.0981	98	80 - 120	2010-12-20
Ethylbenzene		mg/L	0.100	0.0960	96	80 - 120	2010-12-20
Xylene		mg/L	0.300	0.291	97	80 - 120	2010-12-20

Standard (CCV-3)

QC Batch: 76325

Date Analyzed: 2010-12-20

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0911	91	80 - 120	2010-12-20
Toluene		mg/L	0.100	0.0893	89	80 - 120	2010-12-20
Ethylbenzene		mg/L	0.100	0.0877	88	80 - 120	2010-12-20
Xylene		mg/L	0.300	0.266	89	80 - 120	2010-12-20

Standard (CCV-1)

QC Batch: 76382

Date Analyzed: 2010-12-21

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0982	98	80 - 120	2010-12-21

continued ...

Report Date: December 22, 2010
700376.049.01

Work Order: 10121732
C.S. Cayler

Page Number: 12 of 12
Hobbs, NM

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/L	0.100	0.0950	95	80 - 120	2010-12-21
Ethylbenzene		mg/L	0.100	0.0922	92	80 - 120	2010-12-21
Xylene		mg/L	0.300	0.281	94	80 - 120	2010-12-21

Standard (CCV-2)

QC Batch: 76382

Date Analyzed: 2010-12-21

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0958	96	80 - 120	2010-12-21
Toluene		mg/L	0.100	0.0950	95	80 - 120	2010-12-21
Ethylbenzene		mg/L	0.100	0.0946	95	80 - 120	2010-12-21
Xylene		mg/L	0.300	0.285	95	80 - 120	2010-12-21

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

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

Company Name:

labon LPE

Phone #:

Address:

(Street, City, Zip)

Fax #:

Contact Person:

Steve Kilgusworth

E-mail:

Invoice to:

(if different from above) Plains Pipe Line 2002-10250

Project #:

700376.049.01

Project Name:

CS Cuyler

Project Location (including state):

Sampler Signature:

Boddy

PRESERVATIVE

METHOD

SAMPLING

TIME

DATE

NONE

ICE

NaOH

H₂SO₄HNO₃

HCl

SLUDGE

AIR

SOIL

WATER

Volume / Amount

CONTAINERS

FIELD CODE

LAB

(LAB USE)

(ONLY)

203703

MW6

3

10/17/02

1145

1030

1220

1213

1150

1130

1105

1115

1045

1205

Turn Around Time if different from standard

Hold

Na, Ca, Mg, K, TDS, EC

Cl, F, SO₄, NO₃, NO₂, Alkalinity

Moisture Content

BOD, TSS, pH

Pesticides 8081 / 608

PCBs 8082 / 608

GC/MS Semi. Vol. 8270 / 625

GC/MS Vol. 8260 / 624

RCI

TCRP Pesticides

TCRP Semi Volatiles

TCRP Volatiles

TCRP Metals Ag As Ba Cd Cr Pb Se Hg

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7

PAH 8270 / 625

TPH 8015 GRO / DRO / TVHC

TPH 418.1 / TX1005 / TX1005 Ext(C35)

BTEX 8021 / 602 / 8260 / 624

MTBE 8021 / 602 / 8260 / 624

ANALYSIS REQUEST

(Circle or Specify Method No.)

Relinquished by:

Company:

Date:

Time:

Received by:

Company:

Date:

Time:

INST

OBS

COR

LAB USE

ONLY

REMARKS:

* All tests - Midland

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting

Limits Are Needed

Headspace

Intact

Log-In-Review

Carrier #

ORIGINAL COPY

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

APPENDIX D

NMOCD C-141



ENVIRONMENTAL PLUS, INC.

Micro-Blaze

Micro-Blaze Out™

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

October 2, 2002

Mr. Paul Sheeley, Environmental Engineer
State of New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division, Environmental Bureau
1625 North French
Hobbs, New Mexico 88240

Subject: EOTT Energy Pipeline 8" Sweet Vacuum (C.S. Cayler) 9-19-02- #2002-10249
UL-B NW¼ of the NE¼ of Section 6 T17S R37E
Latitude: 32° 52' 2.45"N Longitude: 103° 17' 17.73"W

Dear Mr. Sheeley,

The attached New Mexico Oil Conservation Division Form C-141 and supporting documentation is being submitted by Environmental Plus, Inc. (EPI) on behalf of Mr. Frank Hernandez, District Environmental Supervisor for EOTT Energy Pipeline for the above referenced crude oil leak site. The land owner of record according to the Lea County Assessor's Office is Mr. Robert C. Rice. Volume released was estimated to be 70 bbls with 0 bbls recovered. The New Mexico Office of the State Engineer records one water well approximately 2,500 southwest of the site with a water level of 40 below ground surface ('bgs). The New Mexico Office of the State Engineer water well information report is attached. The attached site information and metrics form summarizes and ranks the site according to the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks and Spills, 1993. Based on the depth to ground water, the following acceptable remedial thresholds for Benzene, BTEX, i.e., the mass sum of Benzene, Toluene, Ethyl Benzene, and Xylenes, and Total Petroleum Hydrocarbon EPA method 8015m (TPH^{8015m}) are as follows;

- Soil from surface to 40.0'bgs
 - Benzene 10 mg/Kg
 - BTEX 50 mg/Kg
 - TPH^{8015m} 100 mg/Kg

EOTT is currently delineating the vertical and horizontal extents of crude oil contamination at the site. Based on the delineation information, a viable remediation plan will be developed consistent with the NMOCD approved "General Work Plan for Remediation of E.O.T.T. Pipeline Spills, Leaks and Releases in New Mexico, July 2000" and submitted to the NMOCD for approval. The near surface soil will be disposed of in an NMOCD approved facility.

ENVIRONMENTAL PLUS, INC.



ENVIRONMENTAL PLUS, INC.

Micro-Blaze

Micro-Blaze Out™

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

All official communication should be addressed to;

Mr. Frank Hernandez
E.O.T.T. Energy Pipeline
P.O. Box 1660
Midland, Texas 79703
e-mail: frank.hernandez@eott.com

If there are any questions please call Mr. Ben Miller or myself at the office or at 505.390.0288 and 505.390.7864, respectively, or Mr. Frank Hernandez at 915.638.3799.

Sincerely,

Pat McCasland
EPI Technical Services Manager

cc: Frank Hernandez, ENRON Transportation Services w/enclosure
William Kendrick, ENRON Transportation Services w/enclosure
Ben Miller, EPI Vice President and General Manager
Sherry Miller, EPI President
file

ENVIRONMENTAL PLUS, INC.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR "INFORMATION ONLY NON-REPORTABLE" ☒ Initial Report ☐ Final Report

Name of Company EOTT Energy Pipeline	Contact Frank Hernandez
Address 5805 East Highway 80 / P.O. Box 1660, Midland, TX 79703	Telephone No. 915.638.3799
Facility Name: Moore to Kimbrough 8" Sweet Vacuum (C.S. Cayler) 9-19-02 #2002-10250	Facility Type Crude Oil Pipeline

Surface Owner Robert C. Rice	Mineral Owner	Lease No.
---------------------------------	---------------	-----------

LOCATION OF RELEASE

Unit Letter B	Section 6	Township 17S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea Lat.: 32°52'2.45"N Lon: 103°17'17.73"W
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NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 70 bbls	Volume Recovered 0 bbls
Source of Release 8" steel pipeline	Date and Hour of Occurrence 9-19-02 8:00 AM	Date and Hour of Discovery 9-19-02 12:00 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Paul Sheeley, Hobbs NMOCD	
By Whom? Pat McCasland (Environmental Plus, Inc.)	Date and Hour: NMOCD notified on 9-19-02 3:15 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

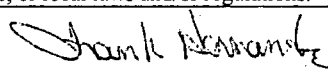
The cause of the leak was internal/external corrosion. The contaminated soil was stockpiled on a plastic barrier on site awaiting remediation.

Describe Area Affected and Cleanup Action Taken.*

Spill Area = ~2,199 ft² Near surface soil will be characterized in accordance with 40 CFR 261 and with NMOCD approval, disposed of in a NMOCD approved facility. The site will be delineated and remediated.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor:	
Printed Name: Frank Hernandez	Approval Date:	Expiration Date:
Title: District Environmental Supervisor	Conditions of Approval:	Attached ☐
Date: October 2, 2002 Phone: 915.638.3799		

* Attach Additional Sheets If Necessary

EOTT Energy Pipeline		Incident Date and NMOCD Notified?:	
Site Information and Metrics		Discovered 9-19-02 NMOCD verbally notified on 9-19-02	
SITE: 8" Sweet Vacuum (C.S. Cayler) 9-19-02		Assigned Site Reference #: #2002-10250	
Company: EOTT Energy Pipeline			
Street Address: 5805 East Highway 80			
Mailing Address: P.O. Box 1660			
City, State, Zip: Midland, Texas 79703			
Representative: Frank Hernandez, District Environmental Supervisor			
Representative Telephone: 915.638.3799			
Telephone:			
Fluid volume released (bbls): 70 bbls		Recovered (bbls): 0	
>25 bbls : Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)			
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)			
Leak, Spill, or Pit (LSP) Name: 8" Sweet Vacuum (C.S. Cayler) 9-19-02 #2002-10250			
Source of contamination: Crude Oil Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: Robert C. Rice			
LSP Dimensions 85' X 45'			
LSP Area: Spill Area 2,199 ft ²			
Location of Reference Point (RP)			
Location distance and direction from RP			
Latitude: 32°52'2.45"N			
Longitude: 103°17'17.73"W			
Elevation above mean sea level: ~3,805 'amsl			
Feet from South Section Line			
Feet from West Section Line			
Location- Unit or ¼/4: UL-B NW ¼ of the NE ¼			
Location- Section: 6			
Location- Township: 17S			
Location- Range: 37E			
Surface water body within 1000 ' radius of site: None			
Domestic water wells within 1000' radius of site: None			
Agricultural water wells within 1000' radius of site: None			
Public water supply wells within 1000' radius of site: None			
Depth from land surface to ground water (DG) ~40.0' below ground surface			
Depth of contamination (DC) - ?			
Depth to ground water (DG - DC = DtGW) - to be determined			
1. Ground Water		2. Wellhead Protection Area	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or; <200' from	
If Depth to GW 50 to 99 feet: 10 points		private domestic water source: 20 points	
If Depth to GW >100 feet: 0 points		If >1000' from water source, or; >200' from	
		private domestic water source: 0 points	
Ground water Score = 20		Wellhead Protection Area Score = 0	
Site Rank (1+2+3) = 20		Surface Water Score = 0	
Total Site Ranking Score and Acceptable Concentrations			
Parameter	>19 (Surface to 40.0'bgs)	10-19	0-9
Benzene ¹	10 ppm	10 ppm	10 ppm
BTEX ¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm
¹ 100 ppm field VOC headspace measurement may be substituted for lab analysis			

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: Range: Sections:

NAD27 X: Y: Zone: Search Radius:

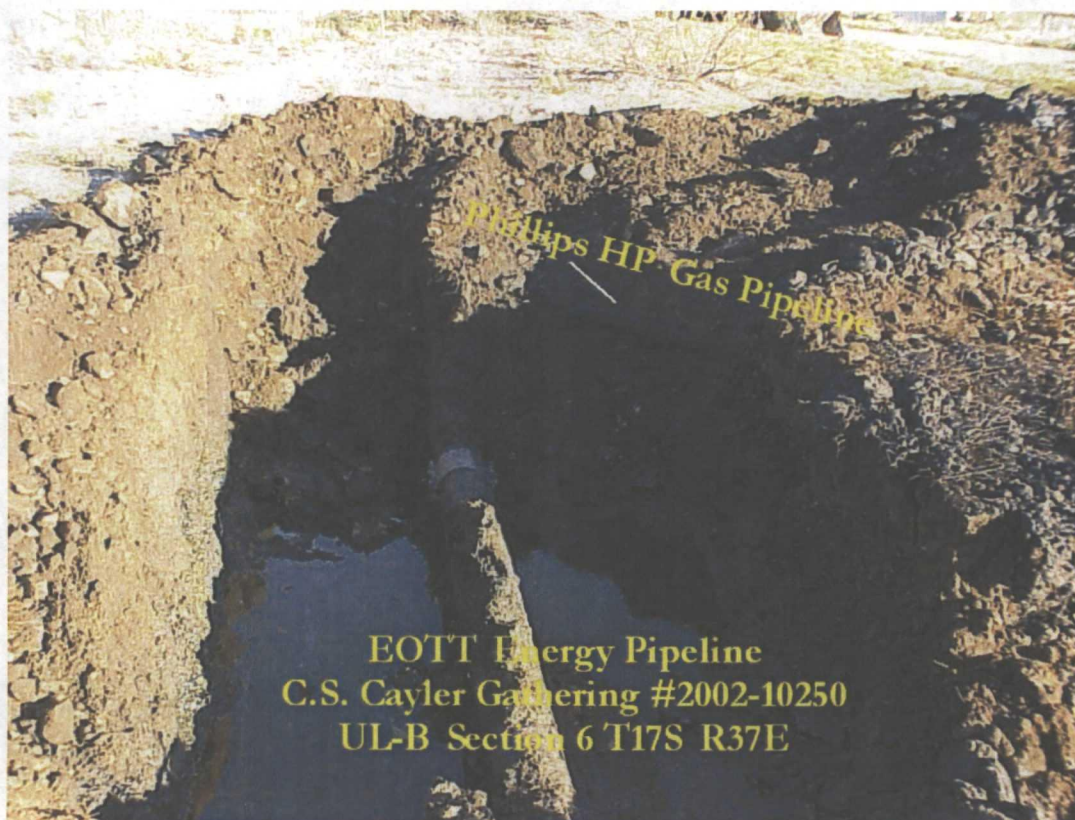
County: Basin: Number: Suffix:

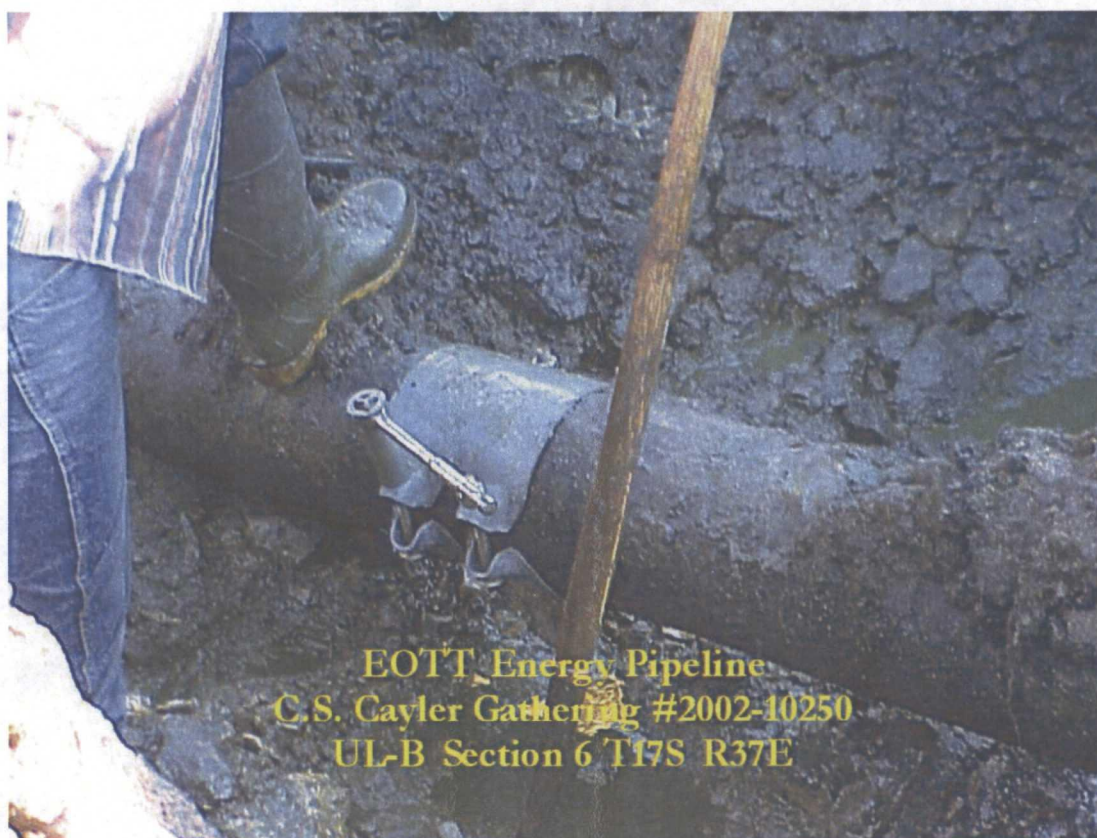
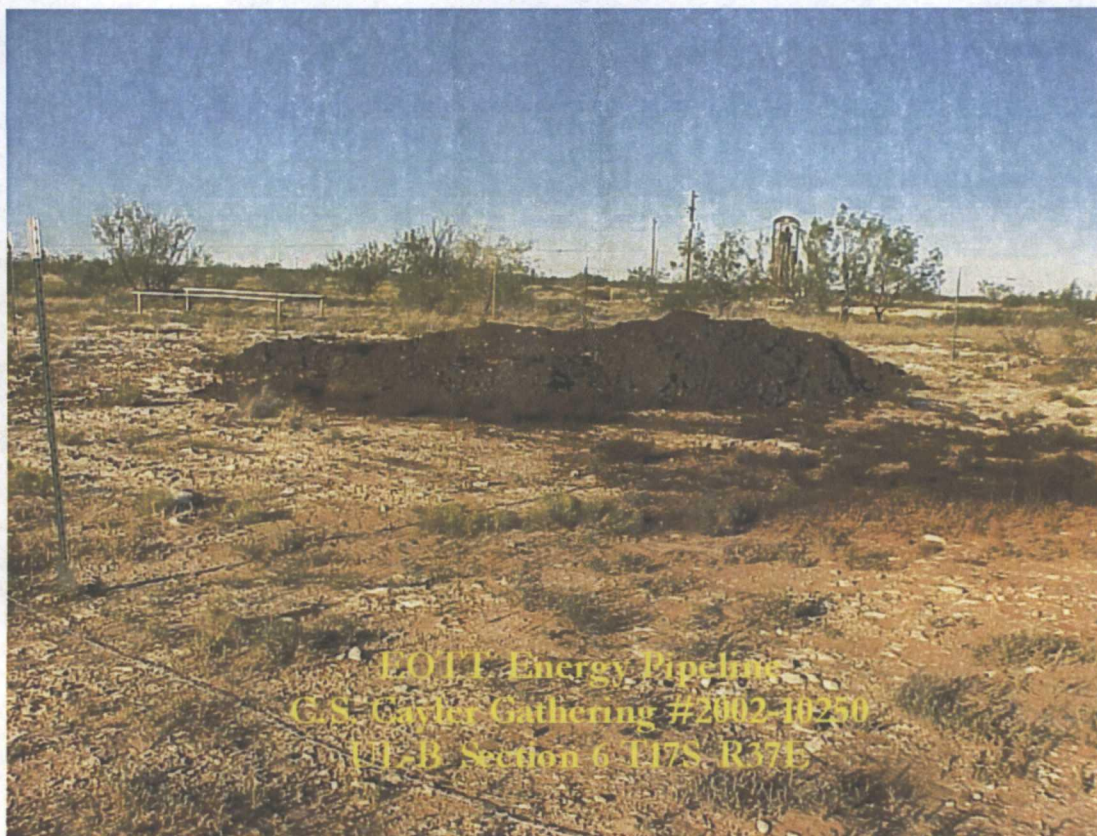
Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic
☒ All

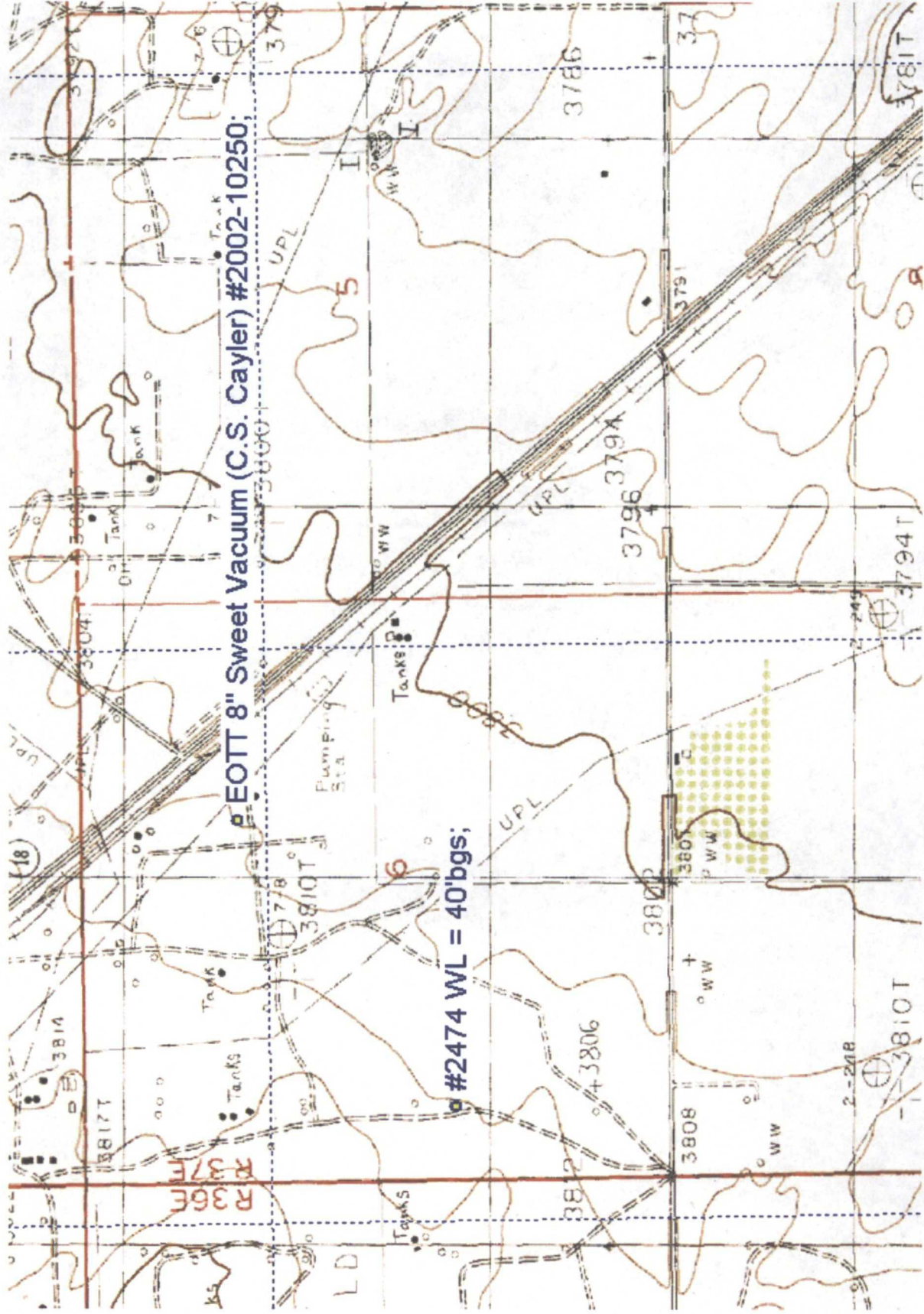
AVERAGE DEPTH OF WATER REPORT 10/10/2002

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
L	17S	37E	06				2	40	40	40

Record Count: 2







EOTT ENERGY
PIPELINE
C.S. CAYLER
GATHERING
#2002-10250
UL-B SEC 6
T17S R37E
AFFECTED AREA
~2199 SQFT
ESTIMATED
GROUND WATER
DEPTH
~40' BGS

SCALE 1:4,000



FEET

UNIVERSAL TRANSVERSE MERCATOR
IS NORTH
NAD 1983 HPGN (NEW MEXICO)

R091921A.SSF
9/20/2002



