

AP - 92

ANNUAL MONITORING REPORT

YEAR(S):

2008



PLAINS
ALL AMERICAN

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March 27, 2009

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

Re: Plains All American – 2008 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	1R-0380	Section 16, T17S, R37E, Lea County
8-inch Moore to Jal #2	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: Larry Johnson, NMOCD, Hobbs, NM

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**ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
EMERGENCY RESPONSE**

**2008 ANNUAL GROUNDWATER MONITORING REPORT
8" MOORE TO JAL #2
SECTION 16, TOWNSHIP 17 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
PLAINS SRS #2002-10273
NMOCD REF. # AP-92**

PREPARED FOR:

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SUITE 1600
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PREPARED BY:

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March 27, 2009

2008 ANNUAL GROUNDWATER MONITORING REPORT

**8" MOORE TO JAL #2
LEA COUNTY, NEW MEXICO
SRS #2002 - 10273
NMOCD REF. # AP-92**

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TALON/LPE PROJECT NO. PLAINS008SPL

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March 2009

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

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1.0 INTRODUCTION AND OBJECTIVES

1.1 Objectives and Site Background

The 8" Moore to Jal #2 (site) is located approximately 9.2 miles southeast of Lovington, Lea County, New Mexico, on property owned by the State of New Mexico. The site is located within the West Lovington Oil Field. There are no residences, groundwater wells, or surface water bodies within a 1,000-foot radius of the site. The initial release occurred from a Plains Pipeline, L.P. (Plains) steel pipeline in October 2002. Initial reports estimated that 25 barrels (bbls) of crude oil were released. Approximately six thousand (6,000) square feet of surface area were impacted by the release.

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 Previous Environmental Investigations

A total of thirteen (13) 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 July 2004. Groundwater monitor wells MW-2, MW-3, and MW-4 were installed in October 2004 and MW-6 through MW-13 were installed in November 2007.

Phase-separated hydrocarbon (PSH) recovery operations have been performed at the site since 2004. Currently there are four (4) skimmer pumps and two (2) total fluid pumps in operation. A summary of the historical groundwater and PSH gauging is provided in Table 1. Approximately 1,904 gallons (45 bbls) of PSH has been recovered to date.

1.3 Regulatory Framework

Groundwater analytical data from this site was compared to the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards listed below. Following sections provide summaries of the groundwater monitoring activities conducted at the site as well as analytical results from each groundwater sampling event of 2008. Analytical results for the four sampling events are summarized in Table 2, Table 3, and Table 4 in Appendix B, and Figures 3a through 3d in Appendix A. Laboratory analytical data reports and chain of custody documentation are included in Appendix C.

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

2.0 SITE ACTIVITIES

The following section presents a summary of the product recovery and groundwater monitoring activities conducted at the site. The focus of the groundwater monitoring activities included collecting groundwater measurements and groundwater samples from monitor wells for laboratory analysis.

2.1 Groundwater Monitoring Activities

A total of four (4) groundwater monitoring events were conducted by Talon: March 2008; June 2008; September 2008; and December 2008.

During the March 2008 groundwater monitoring event, all monitor wells were gauged. Six (6) monitor wells, MW-4, MW-8, and MW-10 through MW-13, were purged and sampled. Seven (7) monitor wells, MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-9, were not sampled due to the presence of PSH. Details of the gauging, purging, and sampling activities are presented in Section 2.2.

During the June 2008 groundwater monitoring event, all monitor wells were gauged. Six (6) monitor wells, MW-4, MW-8, and MW-10 through MW-13, were purged and sampled. Seven (7) monitor wells, MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-9, were not sampled due to the presence of PSH. Details of the gauging, purging, and sampling activities are presented in Section 2.2.

During the September 2008 groundwater monitoring event, all monitor wells were gauged, purged, and sampled. Seven (7) monitor wells, MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-9, exhibited PSH thicknesses ranging from 0.01' to 6.52'; however, groundwater samples were collected from all wells per NMOCD request. Additional, details of the gauging, purging, and sampling activities are presented in Section 2.2.

During the December 2008 groundwater monitoring event, all monitor wells were gauged. Seven (7) monitor wells, MW-2, MW-4, MW-8, and MW-10 through MW-13, were purged and sampled. Six (6) monitor wells, MW-1, MW-3, MW-5, MW-6, MW-7, and MW-9, were not sampled due to the presence of PSH. Details of the gauging, purging, and sampling activities are presented in Section 2.2.

2.2 Groundwater Gauging, Purging, and Sampling Procedures

During each groundwater monitoring event, all monitor wells were measured to determine static water levels and monitor the presence and/or absence of PSH accumulations. Measured groundwater depths and elevations collected during the sampling events, along with historical measurements, are presented in Table 1 – Summary of Groundwater Elevations and Phase Separated Thickness in Appendix B.

All wells not containing PSH were purged a minimum of three (3) well volumes prior to sampling. During the September 2008 groundwater sampling event, the monitor wells containing PSH (monitor wells MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-9) were also purged prior to sampling. Purge volumes from the monitor wells exhibiting PSH varied

from one well to the next, and each monitor well was purged to the maximum extent practical that still allowed for the collection of a groundwater sample. All monitor wells were purged utilizing pumps and vinyl tubing. The pumps and tubing used to purge the wells were decontaminated with Alconox® detergent and rinsed with distilled water prior to initial use at each well. Purged groundwater and recovered decontamination water was immediately transferred to the on-site poly tank utilized to accumulate the recovered PSH. This tank is monitored and recorded to determine water and PSH recovery data and its contents are properly disposed of as needed. Approximately nine hundred and thirty-six (936) gallons of groundwater was purged during the quarterly groundwater monitoring events of 2008.

Groundwater samples were collected from all monitor wells utilizing dedicated disposable Teflon® bailers, with the exception of the monitor wells exhibiting PSH during the September 2008 groundwater sampling event. These groundwater samples were collected through the pump and the vinyl tubing. The groundwater samples were transferred from the disposable bailer or vinyl tubing into laboratory supplied sample containers appropriate for the analysis requested. The groundwater samples were maintained on ice in the custody of Talon, until delivery to TraceAnalysis, Inc. in Midland, Texas for analysis. The collected groundwater samples were analyzed for BTEX by EPA Method SW-846 8021B and PAH using EPA Method SW-846 method 8270C.

2.3 Phase Separated Hydrocarbon Recovery

Prior to October 2008, a mobile recovery trailer with a total fluids pump was utilized to recover phase-separated hydrocarbons (PSH) from monitor wells MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-9 during weekly site visits.

On October 7, 2008, two (2) AP-4 pneumatic total fluid pumps were installed in monitor wells MW-1 and MW-7 and four (4) skimmer pumps were installed in MW-3, MW-5, MW-6, and MW-9 in an effort to recover PSH and inhibit migration of the PSH plume. The skimmer network consists of bladder pumps combined with 24" traveling float skimmer attachments in each well. The skimmer system is powered by an electric Ingersoll Rand air compressor. Due to the increased fluid recovery, a 7,000 gallon poly tank was added to the recovery network system. The poly tank is equipped with a high level shut off switch to prevent overflow. The recovered water is subsequently removed via vacuum truck and transported to an approved NMOCD disposal facility. The recovered PSH is reintroduced into the Plains pipeline system at the 34 Junction South facility.

The system is maintained weekly to optimize recovery rates. The skimmer and total fluid pumps have been effective in decreasing the PSH levels across the site. The poly tank is gauged weekly to monitor PSH recovery.

During 2008 a total of 388 gallons of PSH and a total of 1,101 gallons of water were recovered. Approximately 1,904 gallons (45 bbls) of PSH has been recovered to date.

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.

3.1 Groundwater Monitoring Results

The following sections present the results from the monitoring of the first water-bearing zone underlying the site.

3.1.1 Physical Characteristics of the First Water-Bearing Zone

The first water-bearing zone underlying the site is an unconfined aquifer that appears to be part of the Ogallala formation. According to “Ground-Water Report 6, Geology and Ground-Water Conditions in Southern Lea County, New Mexico, A. Nicholson, Jr. and A. Clebsch, Jr., United State Geological Survey, 1961,” (USGS Report #6) the Ogallala formation mantles the High Plains Physiographic Region in the area of Lea County north of Hobbs, New Mexico, and ranges in thickness from 100 to 250 feet. The saturated thickness of the Ogallala formation on the High Plains ranges from 25 feet to 175 feet because of the very irregularly eroded Triassic surface that underlies it. The Ogallala sands are overlain with an indurated and fractured calcium carbonate caliche cap up to 60-feet thick.

The saturated thickness of the first water-bearing zone has exhibited a decreasing trend, with an average decrease of the potentiometric surface elevation of approximately four (4) feet since July 2004. The depth of groundwater has historically been approximately 75 to 80 feet bgs and the gradient direction is to the southeast.

3.1.2 Groundwater Gradient and Flow Direction

Water level measurements were collected on March 26, 2008, June 30, 2008, September 18, 2008 and December 17, 2008. Groundwater elevations at the site indicate a southeast gradient. The monitor well fluid level measurement data arising from the four (4) monitoring events is summarized in Table 1-Summary of Groundwater Elevations and Phase Separate Hydrocarbon Thickness presented in Appendix B.

Potentiometric surface maps were constructed from four (4) of the water level measurement datasets:

- March 26, 2008
- June 30, 2008
- September 18, 2008
- December 17, 2008

These maps are Figure 2a through Figure 2d presented in Appendix A.

The potentiometric surface map for March 2008 was constructed from water level elevations collected from all of the monitor wells. The water level elevations exhibit a general groundwater direction of flow to the southeast with an approximate gradient of 0.003 feet/foot.

The potentiometric surface map for June 2008 was constructed from water level elevations collected from all of the monitor wells. The water level elevations exhibit a general groundwater direction of flow to the southeast with an approximate gradient of 0.003 feet/foot.

The potentiometric surface map for September 2008 was constructed from water level elevations collected from all of the monitor wells. The water level elevations exhibit a general groundwater direction of flow to the southeast with an approximate gradient of 0.003 feet/foot.

The potentiometric surface map for December 2008 was constructed from water level elevations collected from all of the monitor wells. The water level elevations exhibit a general groundwater direction of flow to the southeast with an approximate gradient of 0.003 feet/foot.

Based on fluid elevations measured at this site, the groundwater within the first water-bearing zone underlying the site flows consistently towards the southeast.

3.1.3 Phase Separated Hydrocarbon (PSH)

The collection of water level measurement data was conducted using an oil/water interface probe, which was also used to determine the presence of PSH.

- In March 2008, PSH was observed in monitor wells MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-9. PSH thickness ranged from 6.71 feet to 0.10 feet.
- In June 2008, PSH was observed in monitor wells MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-9. PSH thickness ranged from 6.84 feet to 0.10 feet.
- In September 2008, PSH was observed in monitor wells MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-9. PSH thickness ranged from 6.52 feet to 0.01 feet.
- In December 2008, PSH was observed in monitor wells MW-1, MW-3, MW-5, MW-6, MW-7, and MW-9. PSH thickness ranged from 6.47 to 0.11 feet.

PSH plume maps are presented on Figure 3a through 3d. Based on these measurements, the PSH plume is delineated by the current monitor well network and appears to be decreasing in size.

PSH recovery operations have been performed at the site since 2004. Currently there are a total of two (2) total fluid pumps and four (4) skimmer pumps in operation. A summary of the historical groundwater and PSH gauging is provided in Table 1. Approximately 2,129 gallons (51 bbls) of PSH has been recovered to date.

3.1.4 Groundwater Sampling Results

During the March 2008 sampling event, monitor wells MW-4, MW-8, and MW-10 through MW-13 were sampled. Groundwater samples collected from these wells exhibited the following analytical results:

- Benzene concentrations ranged from 0.0283 mg/L to 21.8 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in the groundwater sample collected from monitor wells MW-4, MW-8, and MW-10 through MW-13.

- Toluene concentrations ranged from <0.00500 mg/L to 0.956 mg/L. Toluene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor well MW-4.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.724 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L.
- Xylene concentrations ranged from 0.00290 mg/L to 0.811 mg/L. Xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in the groundwater sample collected from monitor well MW-4.
- Monitor wells MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-9 were not sampled due to the presence of PSH.

During the June 2008 sampling event, monitor wells MW-4, MW-8, and MW-10 through MW-13 were sampled. Groundwater samples collected from these wells exhibited the following:

- Benzene concentrations ranged from <0.00100 mg/L to 24.3 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in the groundwater sample collected from monitor wells MW-4, MW-8, and MW-13.
- Toluene concentrations ranged from <0.00100 mg/L to 1.12 mg/L. Toluene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor well MW-8.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 1.02 mg/L. Ethylbenzene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor well MW-4.
- Xylene concentrations ranged from <0.00100 mg/L to 1.04 mg/L. Xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in the groundwater sample collected from monitor wells MW-4 and MW-8.
- Monitor wells MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-9 were not sampled due to the presence of PSH.

During the September 2008 sampling events, all of the monitor wells were sampled. Groundwater samples collected from these wells exhibited the following:

- Benzene concentrations ranged from <0.00100 mg/L to 26.4 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor well MW-1 through MW-9, MW-11, MW-12, and MW-13.
- Toluene concentrations ranged from <0.00100 mg/L to 11.7 mg/L. Toluene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in groundwater samples collected from monitor wells MW-1 through MW-7 and MW-9.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 1.24 mg/L. Ethylbenzene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in groundwater samples collected from monitor wells MW-1, MW-3 through MW-6, and MW-9.
- Xylene concentrations ranged from 0.00100 mg/L to 4.13 mg/L. Xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in groundwater samples collected from monitor wells MW-1 through MW-7 and MW-9.
- PAH concentrations are summarized in Tables 3 and 4 in Appendix B.

During the December 2008 sampling event, monitor wells MW-2, MW-4, MW-8, and MW-10 through MW-13 were sampled. Groundwater samples collected from these wells exhibited the following:

- Benzene concentrations ranged from 0.00790 mg/L to 27.7 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in the groundwater samples collected from monitor wells MW-2, MW-4, MW-8, and MW-13.
- Toluene concentrations ranged from <0.00100 mg/L to 2.36 mg/L. Toluene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor well MW-8.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 1.20 mg/L. Ethylbenzene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor wells MW-4 and MW-8.
- Xylene concentrations ranged from <0.00100 mg/L to 2.46 mg/L. Xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in the groundwater sample collected from monitor wells MW-4 and MW-8.
- Monitor wells MW-1, MW-3, MW-5, MW-6, MW-7, and MW-9 were not sampled due to the presence of PSH.

The dissolved phase groundwater plume is impacted at concentrations above the NMWQCC groundwater standards past the perimeter delineation wells to the south and to the east of the site. The results of the laboratory analyses are summarized in Table 2 – Summary of Groundwater Analytical Results in Appendix B. Laboratory analytical data reports and chain of custody documentation are provided in Appendix C.

4 CONCLUSIONS AND RECOMMENDATIONS

The following section presents a summary of the groundwater monitoring events conducted at the 8" Moore to Jal #2 site and provides recommendations for future actions.

4.1 Summary of Findings

The groundwater flow direction in the first water-bearing zone is to the southeast based upon the water level measurement data collected to date. Perimeter down-gradient monitor wells to the south and to the east of the source area along the property boundary exhibited benzene, toluene, and xylene concentrations above NMWQCC groundwater standards during one or more of the quarterly sampling events. PSH levels show an overall decreasing trend. Monitor wells MW-10, MW-11, and MW-12 that are in apparent cross-gradient and upgradient locations displayed relatively stable benzene concentrations. Upgradient monitor well MW-2 exhibited measurable PSH throughout the first three quarterly groundwater monitoring events and did not exhibit PSH during the fourth quarter groundwater monitoring event.

PSH has been observed in monitor wells MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-9. All of these wells except MW-2 are equipped with skimmer pumps. The PSH plume underlying this site has not been delineated offsite to the east of the source area. Based upon the fluid level measurements to date, the PSH plume appears to be gradually moving to the southeast. Approximately 1,904 gallons (45 bbls) of PSH has been recovered to date.

Monitor wells MW-1 through MW-9, MW-11, MW-12, and MW-13 exhibited benzene concentrations above the NMWQCC groundwater standard during the September 2008 groundwater monitoring sampling event. The dissolved-phase plume appears to be moving and/or increasing in size to the southeast and appears to be gradually decreasing to the north and west of the site.

4.2 Recommendations

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

- Operate and maintain the existing skimmer and total fluid recovery system to achieve maximum PSH recovery.
- Pursuant to the request of the NMOCD, Plains will collect a discrete sample below the PSH in the water table from monitor wells containing PSH on an annual basis to evaluate BTEX and TPH concentrations in the groundwater.
- Install a total of eight (8) additional monitor wells south and east of the source area for the delineation of the dissolved-phase and PSH plumes (see Figure 1).

APPENDIX A

Drawings

Figure 1 - Site Plan with Proposed Monitor Well Locations Map

Figure 2a - Groundwater Gradient Map – 03/26/2008

Figure 2b - Groundwater Gradient Map – 06/30/2008

Figure 2c - Groundwater Gradient Map – 09/18/2008

Figure 2d - Groundwater Gradient Map - 12/17/2008

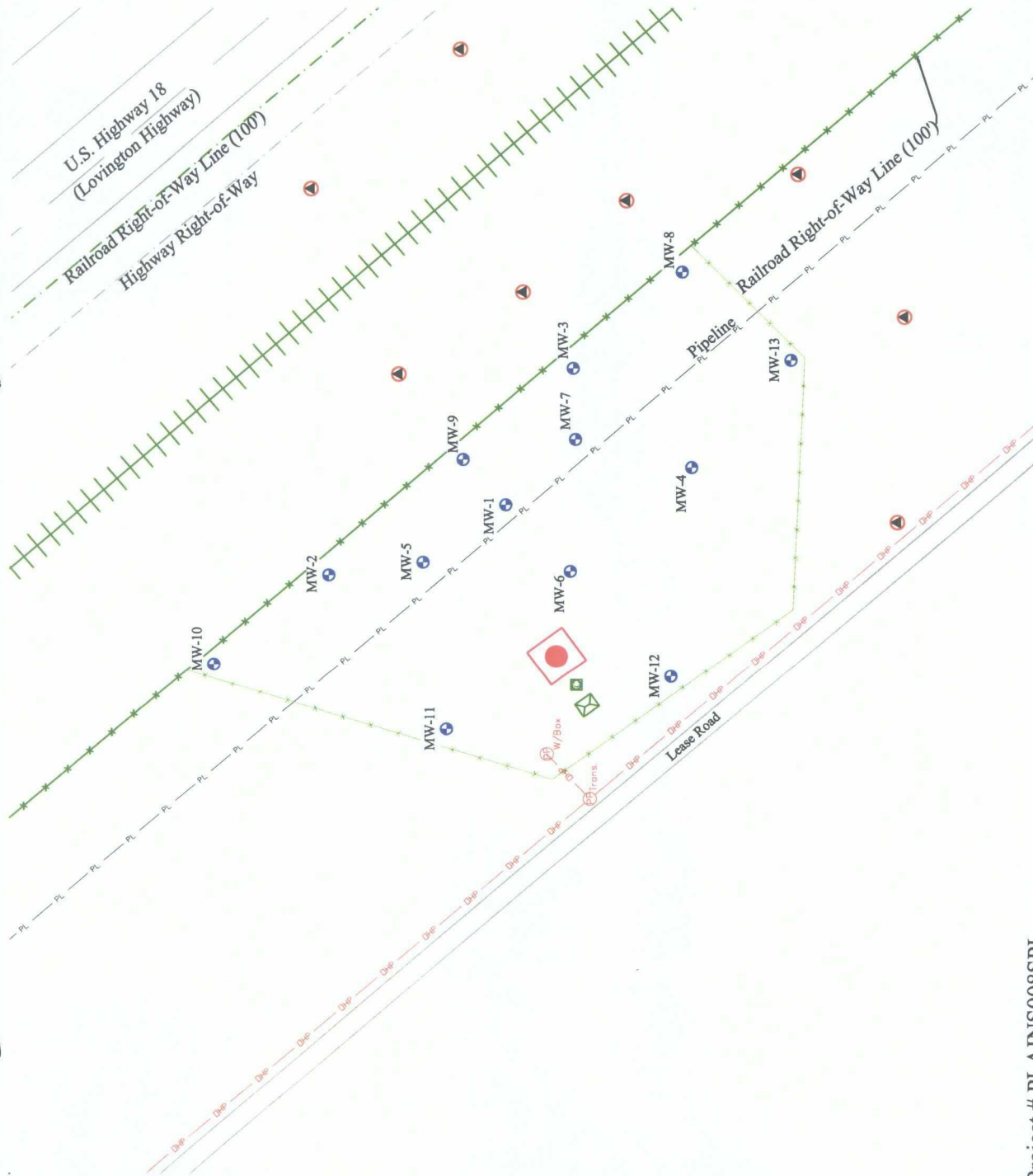
Figure 3a - PSH Thickness & Groundwater Concentration Map - 03/27/2008

Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/30/2008

Figure 3c - PSH Thickness & Groundwater Concentration Map – 09/19/2008

Figure 3d - PSH Thickness & Groundwater Concentration Map - 12/17/2008

Figure 4 - Groundwater Concentration in Wells with PSH Map - 09/18/2008



Legend

- Monitor Well
- Proposed Monitor Well
- Fence Line
- Overhead Powerline
- Railroad Tracks
- Power Pole W/Transformer
- Compressor Shed
- Controls
- Recovery System Tank and Containment

8" Moore to Jal # 2

SRS # 2002-10273, NMOCD REF. # AP-92
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
Figure 1 - Site Map with Proposed Monitor Well Locations

Date: 03/27/2009

Scale: 1" = 80'

Drawn By: SJA



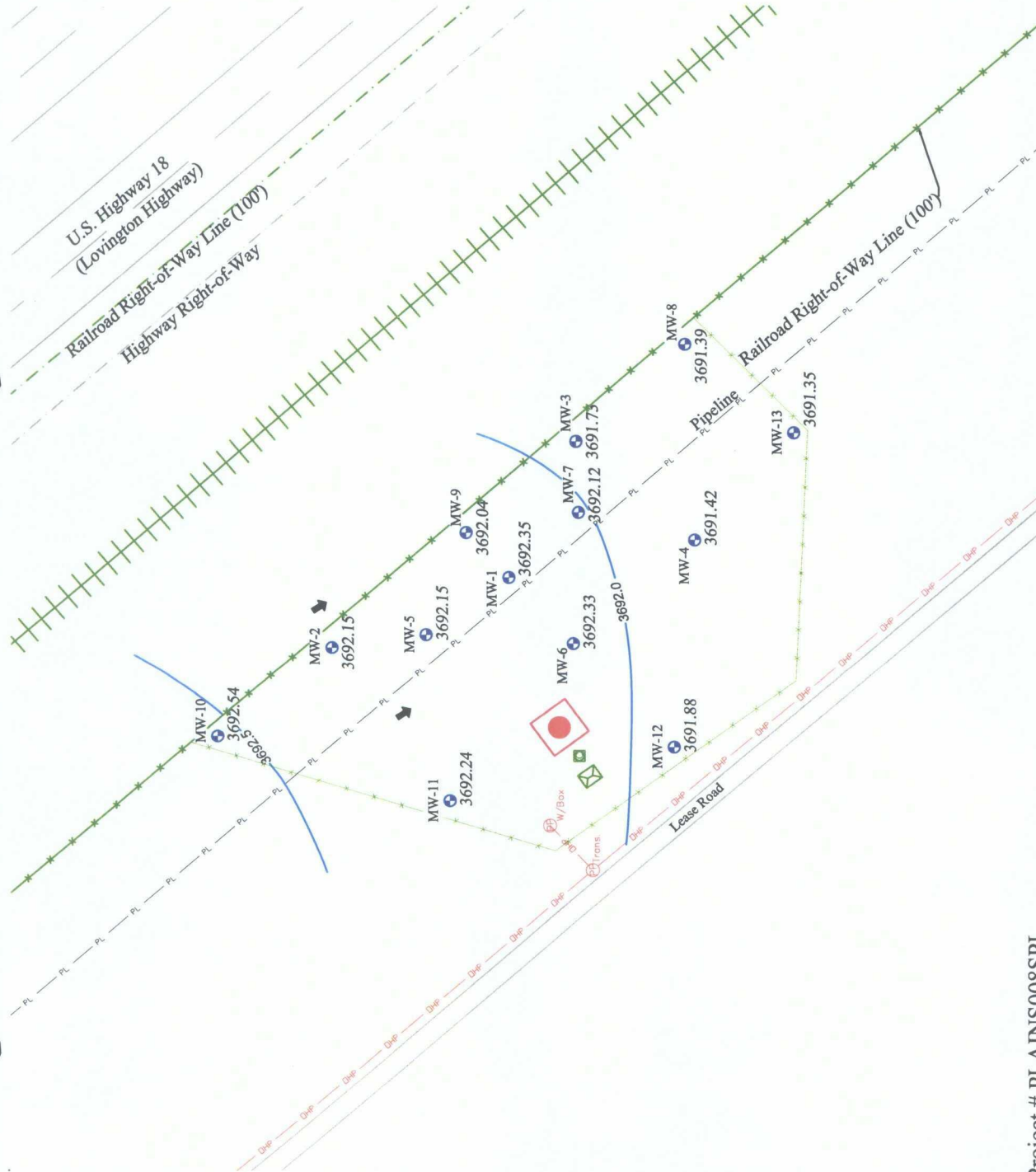
Project # PLAINS008SPL



0 40 80
Scale in Feet

Legend

- Monitor Well
- Fence Line
- Overhead Powerline
- Railroad Tracks
- Power Pole W/Transformer
- Compressor Shed
- Controls
- Recovery System Tank and Containment
- Groundwater Gradient Contour Line
- Groundwater Gradient Contour Elevation
- Groundwater Gradient Contour Line



Project # PLAINS008SPL



Date: 03/27/2009

Scale: 1" = 80'

Drawn By: SJA

8" Moore to Jal # 2

SRS # 2002-10273, NMOCD REF. # AP-92

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

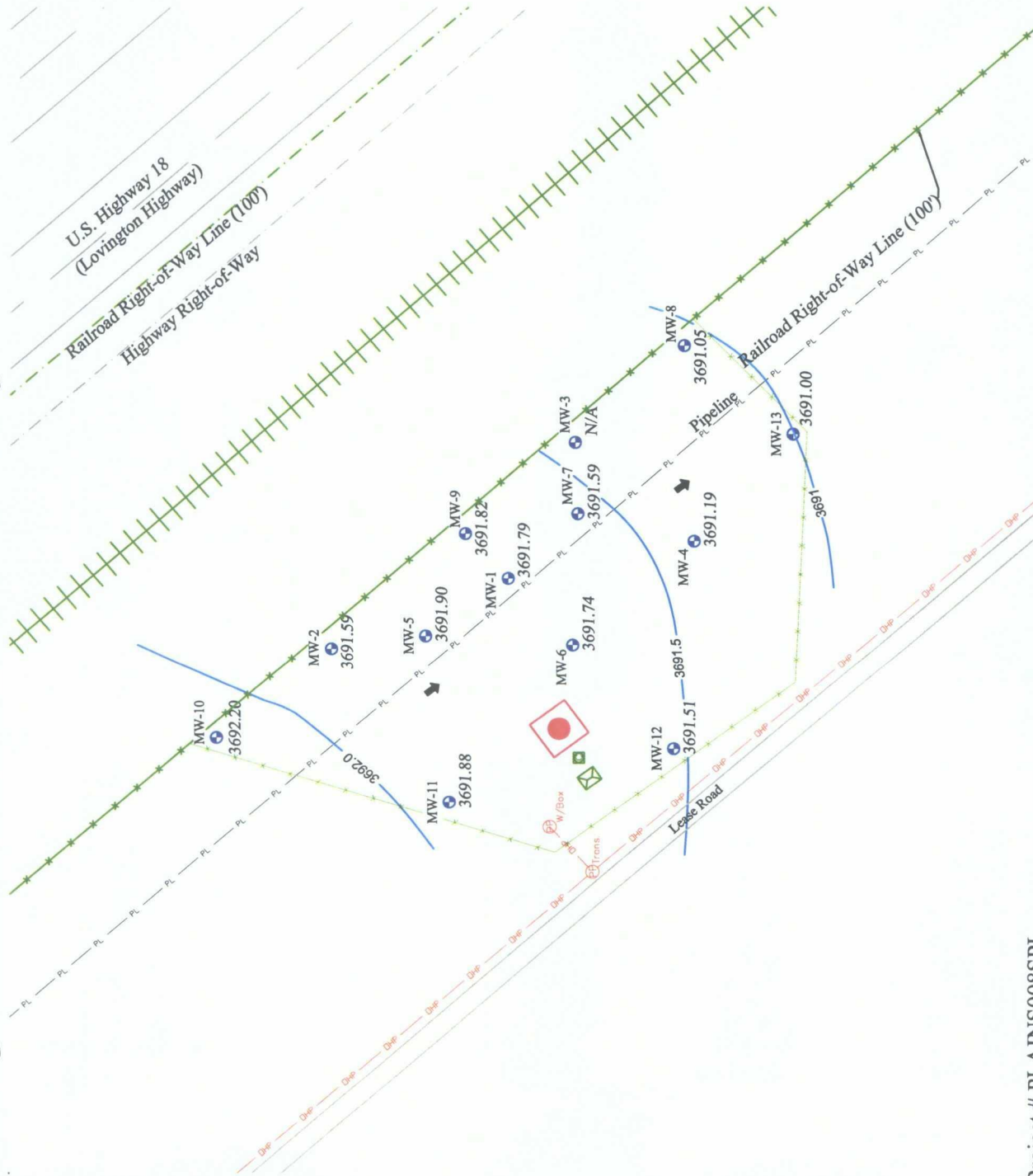
Figure 2a - Groundwater Gradient Map, - 03/26/2008



0 40 80
Scale in Feet

Legend

- Monitor Well
- Fence Line
- Overhead Powerline
- Railroad Tracks
- Power Pole W/Transformer
- Compressor Shed
- Controls
- Recovery System Tank and Containment
- Groundwater Gradient Contour Line
- Groundwater Gradient Contour Elevation
- Groundwater Gradient Contour Line



8" Moore to Jal # 2

SRS # 2002-10273, NMOCD REF. # AP-92

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

Figure 2b - Groundwater Gradient Map, - 06/30/2008

Date: 03/27/2009

Scale: 1" = 80'

Drawn By: SJA



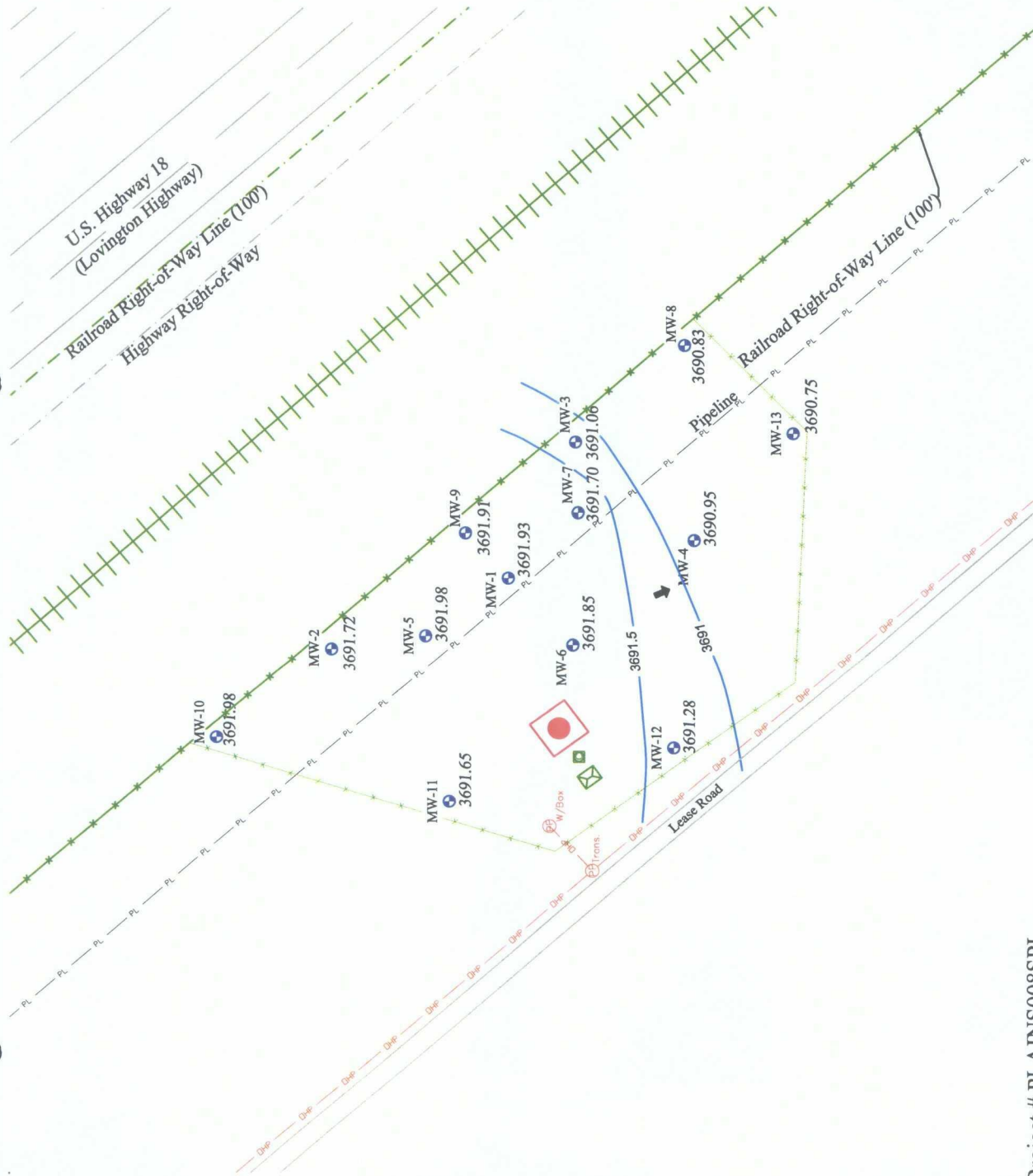
Project # PLAINS008SPL



0 40 80
Scale in Feet

Legend

- Monitor Well
- Fence Line
- Overhead Powerline
- Railroad Tracks
- Power Pole W/Transformer
- Compressor Shed
- Controls
- Recovery System Tank and Containment
- Groundwater Gradient Contour Line
- Groundwater Gradient Contour Elevation
- Groundwater Gradient Contour Line



8" Moore to Jal # 2

SRS # 2002-10273, NMOCD REF. # AP-92

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

Figure 2c - Groundwater Gradient Map, - 09/18/2008

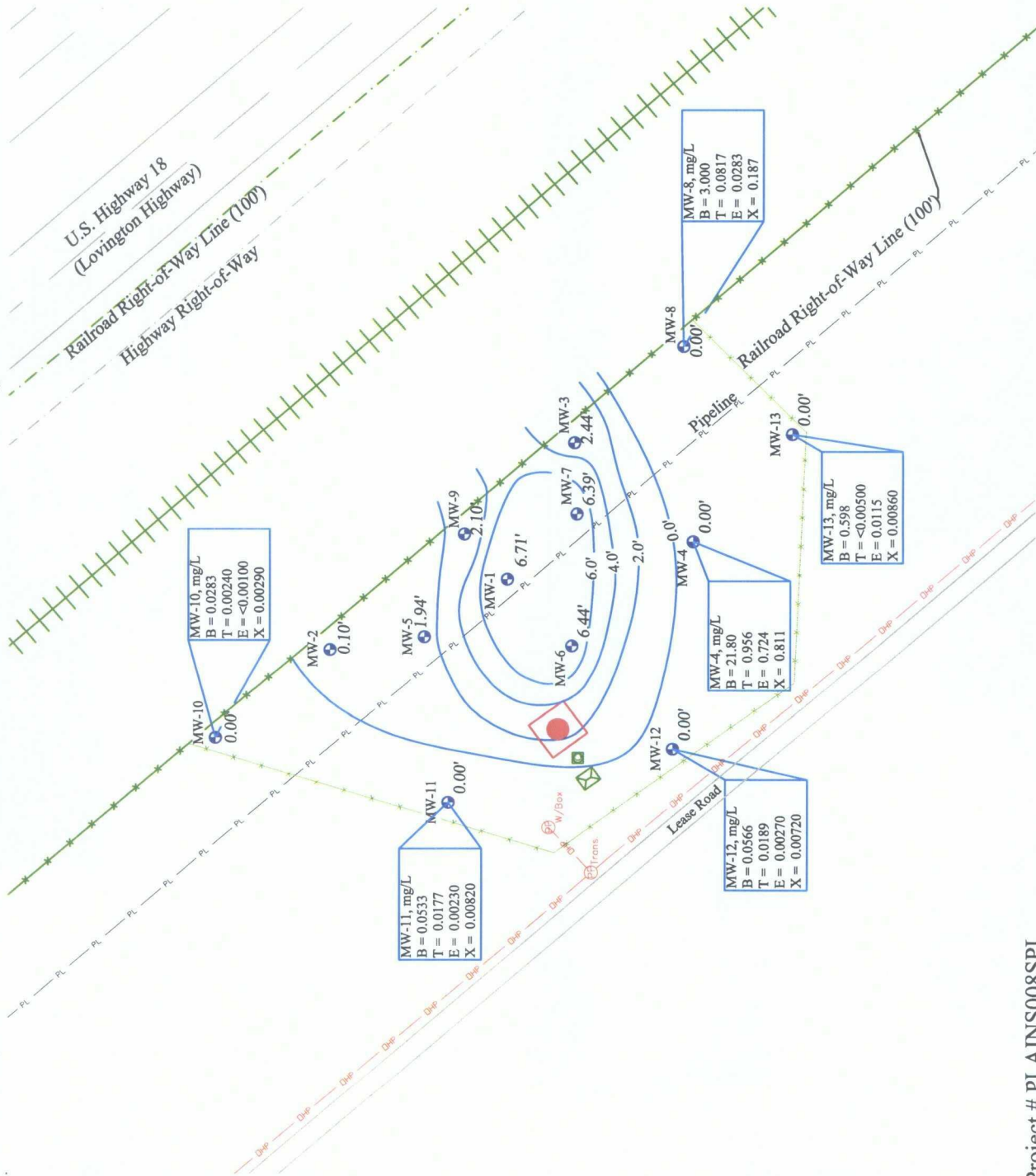
Date: 03/27/2009

Scale: 1" = 80'

Drawn By: SJA



Project # PLAINS008SPL



Project # PLAINS008SPL



Date: 03/27/2009

Scale: 1" = 80'

Drawn By: SJA

8" Moore to Jal # 2

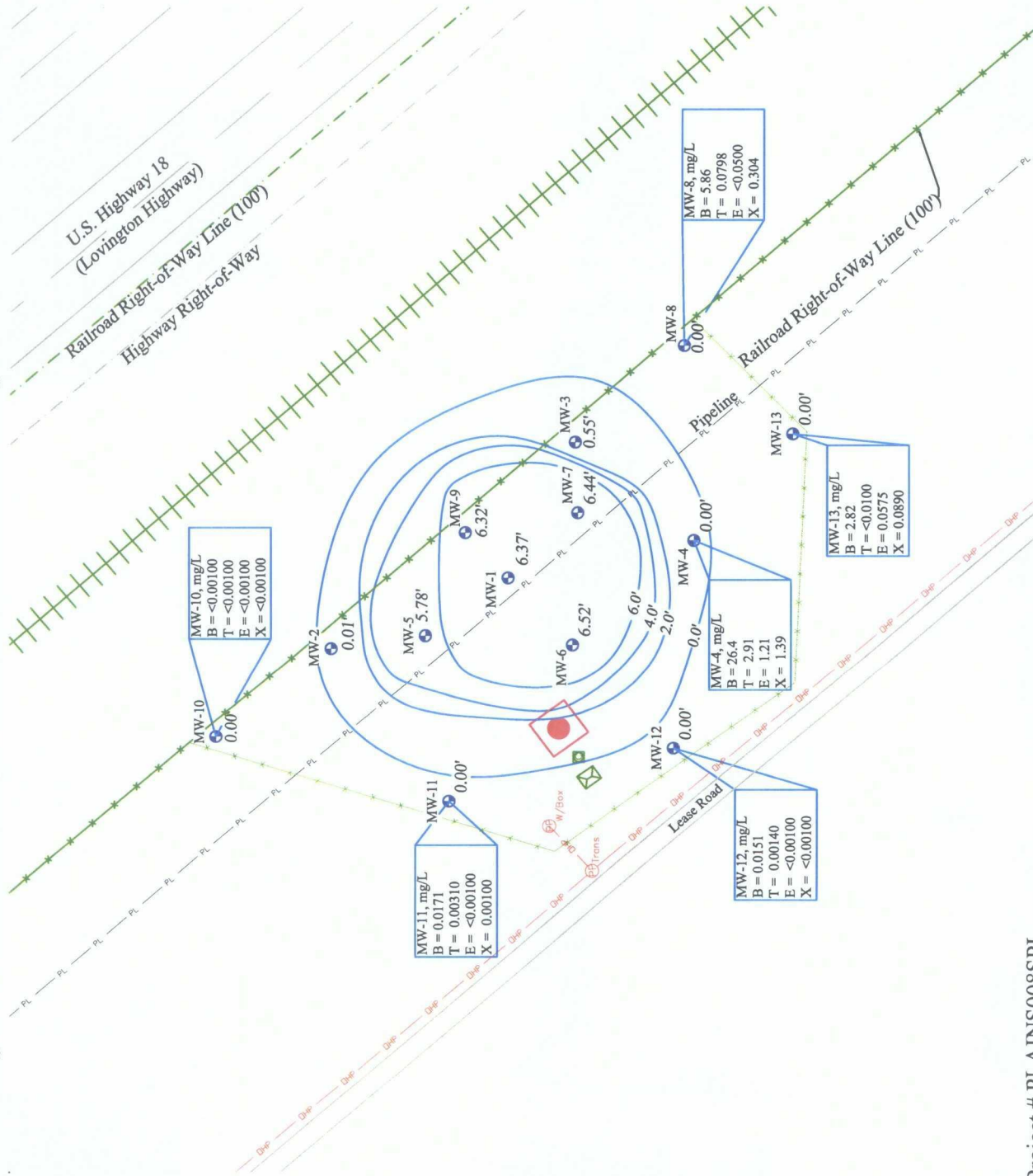
SRS # 2002-10273, NMOCD REF. # AP-92

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

Figure 3a - PSH Thickness & Groundwater Concentration Map, - 03/27/2008



0 40 80
Scale in Feet



8" Moore to Jal # 2
SRS # 2002-10273, NMOCD REF. # AP-92
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
Figure 3c - PSH Thickness and Groundwater Concentration Map, - 09/19/2008

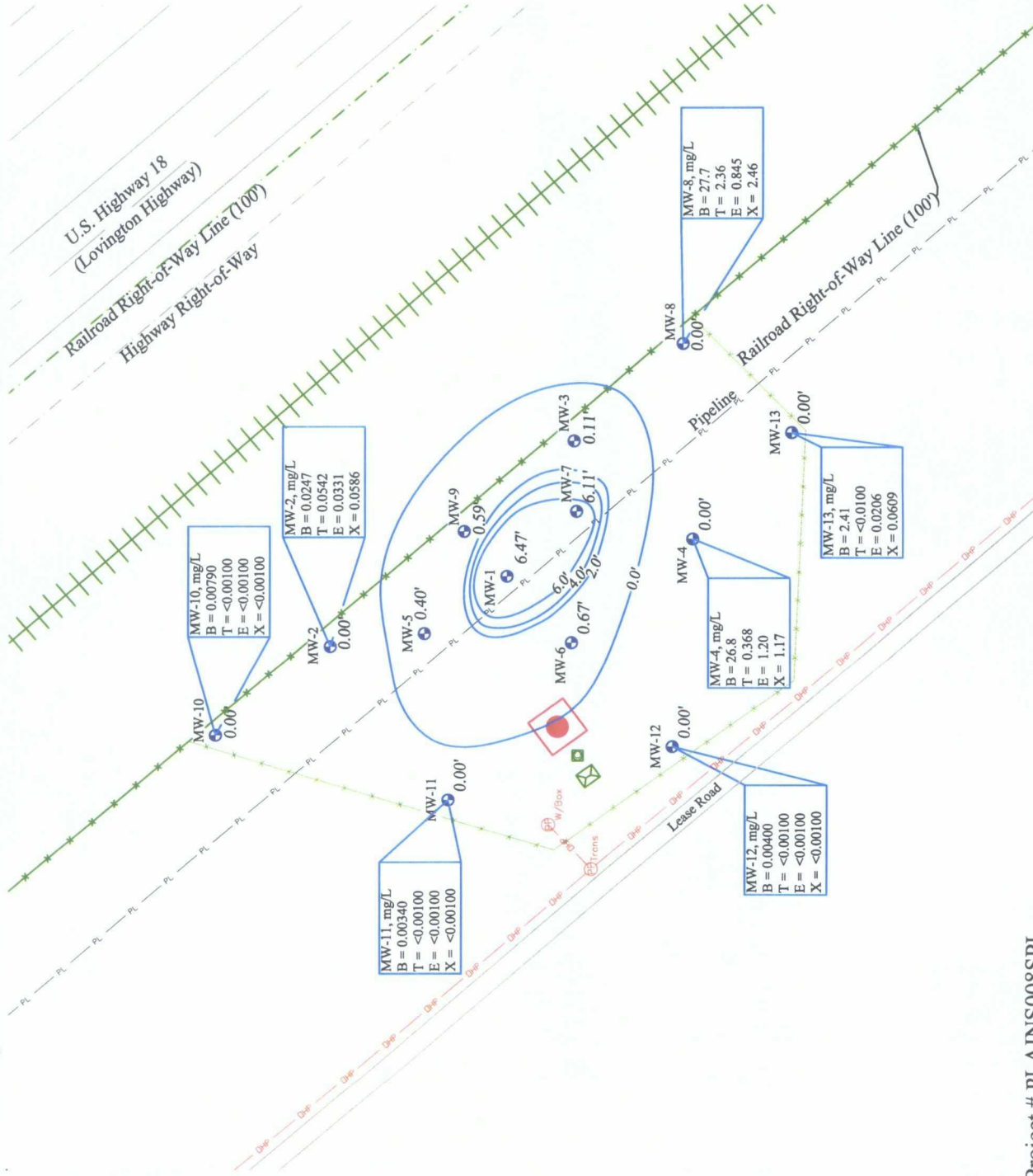
Date: 03/27/2009
Scale: 1" = 80'
Drawn By: SJA



Project # PLAINS008SPL



0 40 80
Scale in Feet



8" Moore to Jal # 2
SRS # 2002-10273, NMOCD REF. # AP-92
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
Figure 3d - PSH Thickness and Groundwater Concentration Map, - 12/17/2008

Date: 03/27/2009
Scale: 1" = 80'
Drawn By: SJA

Project # PLAINS008SPL

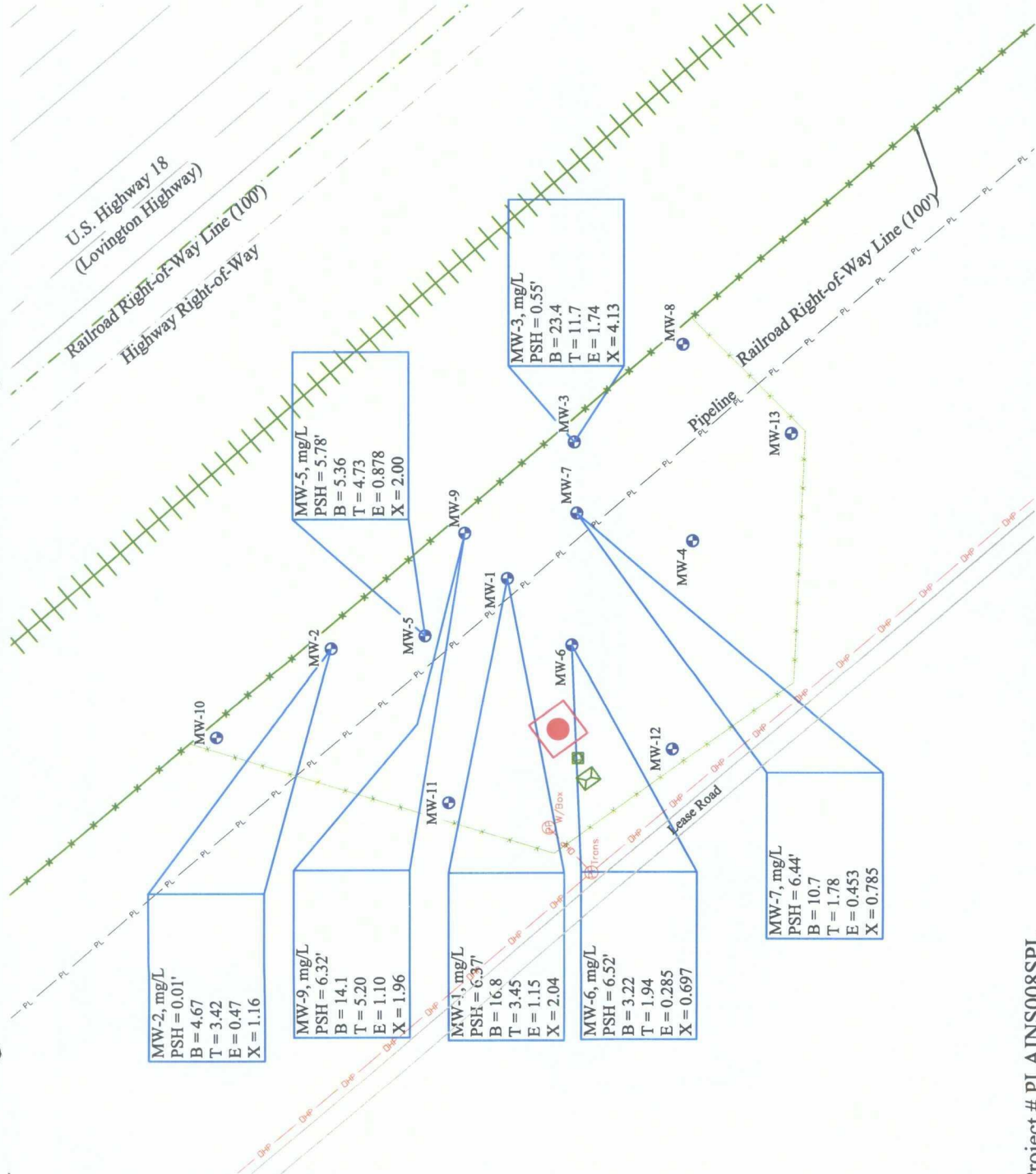




0 40 80
Scale in Feet

Legend

- Monitor Well
- Fence Line
- Overhead Powerline
- Railroad Tracks
- Power Pole W/Transformer
- Compressor Shed
- Controls
- Recovery System Tank and Containment



Project # PLAINS008SPL



Date: 03/27/2009

Scale: 1" = 80'

Drawn By: SJA

8" Moore to Jal # 2

SRS # 2002-10273, NMOCD REF. # AP-92

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

Figure 4 - Groundwater Concentration in Wells With PSH Map - 09/17-20/2008

APPENDIX B

Tables

Table 1 - Summary of Groundwater Elevations and Phase Separated Thickness

Table 2 - Summary of Groundwater Analytical Results

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

Table 4 - Summary of PSH Monitor Wells Groundwater Analytical Results

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-1	07/28/04	3767.30	59.01	59.08	3708.28	0.07	0.00	0.00
MW-1	09/23/04	3767.30	72.37	79.88	3694.05	7.31	0.00	0.00
MW-1	10/08/04	3767.30	72.19	75.79	3694.68	3.60	4.50	4.50
MW-1	10/14/04	3767.30	71.76	78.56	3694.72	6.80	9.00	13.50
MW-1	10/20/04	3767.30	71.80	78.95	3694.64	7.15	10.00	23.50
MW-1	10/29/04	3767.30	71.88	79.20	3694.54	7.32	7.00	30.50
MW-1	11/04/04	3767.30	72.00	79.26	3694.43	7.26	18.00	48.50
MW-1	11/10/04	3767.30	72.08	79.32	3694.35	7.24	11.00	59.50
MW-1	11/17/04	3767.30	72.12	79.33	3694.31	7.21	10.00	69.50
MW-1	11/24/04	3767.30	72.22	79.41	3694.22	7.19	9.00	78.50
MW-1	12/02/04	3767.30	72.18	79.31	3694.26	7.13	8.00	86.50
MW-1	12/08/04	3767.30	72.06	79.14	3694.39	7.08	8.00	94.50
MW-1	12/15/04	3767.30	72.09	79.15	3694.36	7.06	9.00	103.50
MW-1	12/27/04	3767.30	72.26	79.34	3694.19	7.08	9.00	112.50
MW-1	12/29/04	3767.30	72.35	78.84	3694.17	6.49	9.00	121.50
MW-1	01/06/05	3767.30	72.27	79.32	3694.18	7.05	9.00	130.50
MW-1	01/13/05	3767.30	72.31	79.34	3694.15	7.03	10.00	140.50
MW-1	01/19/05	3767.30	72.31	79.37	3694.14	7.06	9.00	149.50
MW-1	01/26/05	3767.30	72.34	79.43	3694.11	7.09	10.00	159.50
MW-1	02/02/05	3767.30	72.32	79.36	3694.14	7.04	9.00	168.50
MW-1	02/09/05	3767.30	72.38	79.39	3694.08	7.01	10.00	178.50
MW-1	02/16/05	3767.30	72.35	79.34	3694.11	6.99	9.00	187.50
MW-1	02/24/05	3767.30	72.37	79.38	3694.09	7.01	9.00	196.50
MW-1	03/03/05	3767.30	72.42	79.40	3694.04	6.98	9.00	205.50
MW-1	03/11/05	3767.30	72.29	79.25	3694.17	6.96	10.00	215.50
MW-1	03/18/05	3767.30	72.41	79.32	3694.06	6.91	9.00	224.50
MW-1	03/31/05	3767.30	72.42	79.34	3694.05	6.92	9.00	233.50
MW-1	04/07/05	3767.30	72.47	79.38	3694.00	6.91	8.00	241.50
MW-1	05/18/05	3767.30	72.49	79.40	3693.98	6.91	14.00	255.50
MW-1	05/23/05	3767.30	72.53	79.40	3693.95	6.87	8.00	263.50
MW-1	05/26/05	3767.30	72.56	79.34	3693.93	6.78	8.00	271.50
MW-1	06/01/05	3767.30	72.55	79.40	3693.93	6.85	8.00	279.50
MW-1	06/03/05	3767.30	72.59	79.20	3693.92	6.81	7.00	286.50
MW-1	06/07/05	3767.30	72.56	79.39	3693.92	6.83	7.00	293.50
MW-1	06/10/05	3767.30	72.55	79.35	3693.93	6.80	7.00	300.50
MW-1	06/13/05	3767.30	72.58	79.53	3693.89	6.95	9.00	309.50
MW-1	06/16/05	3767.30	72.58	79.31	3693.91	6.73	6.00	315.50
MW-1	06/20/05	3767.30	72.60	79.40	3693.88	6.80	8.00	323.50
MW-1	06/22/05	3767.30	72.66	79.27	3693.85	6.61	8.00	331.50
MW-1	06/29/05	3767.30	72.61	79.42	3693.87	6.81	8.00	339.50
MW-1	07/01/05	3767.30	72.62	79.28	3693.88	6.66	8.00	347.50
MW-1	07/06/05	3767.30	72.64	79.44	3693.84	6.80	9.00	356.50
MW-1	07/08/05	3767.30	71.69	79.33	3694.69	7.84	8.00	364.50
MW-1	07/12/05	3767.30	72.68	79.48	3693.80	6.80	10.00	374.50
MW-1	07/14/05	3767.30	72.69	79.35	3693.81	6.66	8.00	382.50
MW-1	07/19/05	3767.30	72.68	79.49	3693.80	6.81	10.00	392.50
MW-1	07/21/05	3767.30	72.73	79.37	3693.77	6.64	10.00	402.50
MW-1	07/26/05	3767.30	72.73	79.74	3693.73	7.01	10.00	412.50

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-1	07/28/05	3767.30	72.75	79.42	3693.75	6.67	10.00	422.50
MW-1	08/02/05	3767.30	72.75	79.55	3693.73	6.80	10.00	432.50
MW-1	08/04/05	3767.30	72.79	79.45	3693.71	6.86	10.00	442.50
MW-1	08/09/05	3767.30	72.77	79.56	3693.72	6.79	10.00	452.50
MW-1	08/11/05	3767.30	72.81	79.46	3693.69	6.66	10.00	462.50
MW-1	08/16/05	3767.30	72.79	79.50	3693.69	6.81	10.00	472.50
MW-1	08/18/05	3767.30	72.81	79.47	3693.69	6.66	10.00	482.50
MW-1	08/24/05	3767.30	72.82	79.64	3693.66	6.82	10.00	492.50
MW-1	08/26/05	3767.30	72.85	79.52	3693.65	6.67	10.00	502.50
MW-1	08/30/05	3767.30	72.83	79.63	3693.65	6.80	10.00	512.50
MW-1	09/01/05	3767.30	72.83	79.43	3693.68	6.80	10.00	522.50
MW-1	09/06/05	3767.30	72.78	79.58	3693.70	6.80	9.00	531.50
MW-1	09/08/05	3767.30	72.82	79.45	3693.68	6.63	10.00	541.50
MW-1	09/13/05	3767.30	72.81	79.62	3693.67	6.81	10.00	551.50
MW-1	09/16/05	3767.30	72.84	79.58	3693.65	6.74	9.00	560.50
MW-1	09/20/05	3767.30	72.85	79.62	3693.64	6.77	10.00	570.50
MW-1	09/23/05	3767.30	72.88	79.62	3693.61	6.74	10.00	580.50
MW-1	09/27/05	3767.30	72.88	79.65	3693.61	6.77	10.00	590.50
MW-1	09/29/05	3767.30	72.91	79.57	3693.59	6.66	10.00	600.50
MW-1	10/04/05	3767.30	72.91	79.70	3693.58	6.78	9.00	609.50
MW-1	10/11/05	3767.30	72.94	79.01	3693.63	6.07	9.00	618.50
MW-1	10/13/05	3767.30	72.93	79.71	3693.56	6.78	10.00	628.50
MW-1	10/13/05	3767.30	72.95	79.65	3693.55	6.70	10.00	638.50
MW-1	10/18/05	3767.30	72.94	79.74	3693.54	6.80	9.00	647.50
MW-1	10/21/05	3767.30	72.99	79.76	3693.50	6.77	11.00	658.50
MW-1	10/26/05	3767.30	72.96	79.77	3693.52	6.81	10.00	668.50
MW-1	10/28/05	3767.30	72.99	79.69	3693.51	6.70	9.00	677.50
MW-1	11/01/05	3767.30	73.02	79.80	3693.47	6.78	9.00	686.50
MW-1	11/04/05	3767.30	73.03	79.81	3693.46	6.78	7.00	693.50
MW-1	11/09/05	3767.30	73.06	79.86	3693.42	6.80	10.00	703.50
MW-1	11/11/05	3767.30	73.08	79.87	3693.41	6.79	9.00	712.50
MW-1	11/16/05	3767.30	73.09	79.87	3693.40	6.78	9.00	721.50
MW-1	11/18/05	3767.30	73.01	79.76	3693.48	6.75	9.00	730.50
MW-1	11/22/05	3767.30	73.09	79.88	3693.40	6.79	9.00	739.50
MW-1	11/30/05	3767.30	73.11	79.11	3693.47	6.00	10.00	749.50
MW-1	12/02/05	3767.30	73.14	79.82	3693.36	6.68	10.00	759.50
MW-1	12/06/05	3767.30	73.10	79.88	3693.39	6.78	9.00	768.50
MW-1	12/14/05	3767.30	73.14	79.91	3693.35	6.77	10.00	778.50
MW-1	12/16/05	3767.30	73.19	79.79	3693.32	6.60	9.00	787.50
MW-1	12/21/05	3767.30	73.15	79.94	3693.34	6.79	11.00	798.50
MW-1	12/23/05	3767.30	73.23	79.77	3693.29	6.54	10.00	808.50
MW-1	12/27/05	3767.30	73.30	79.94	3693.20	6.64	10.00	818.50
MW-1	12/30/05	3767.30	73.23	79.93	3693.27	6.70	10.00	828.50
MW-1	01/03/06	3767.30	73.23	79.97	3693.26	6.74	10.00	838.50
MW-1	01/05/06	3767.30	73.22	79.81	3693.29	6.59	10.00	848.50
MW-1	01/11/06	3767.30	73.23	79.97	3693.26	6.74	10.00	858.50
MW-1	01/13/06	3767.30	73.32	79.87	3693.19	6.55	11.00	869.50
MW-1	01/18/06	3767.30	73.23	79.96	3693.26	6.73	12.00	881.50

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOC REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-1	01/20/06	3767.30	73.31	79.91	3693.20	6.60	10.00	891.50
MW-1	01/24/06	3767.30	73.25	79.99	3693.24	6.74	9.50	901.00
MW-1	01/26/06	3767.30	73.21	79.97	3693.28	6.76	9.00	910.00
MW-1	02/02/06	3767.30	73.23	79.97	3693.26	6.74	0.00	910.00
MW-1	02/08/06	3767.30	73.25	79.95	3693.25	6.70	8.00	918.00
MW-1	02/10/06	3767.30	73.23	79.94	3693.26	6.71	8.00	926.00
MW-1	02/14/06	3767.30	73.27	80.00	3693.22	6.73	8.00	934.00
MW-1	02/16/06	3767.30	73.30	80.03	3693.19	6.73	8.00	942.00
MW-1	02/21/06	3767.30	73.30	80.00	3693.20	6.70	8.00	950.00
MW-1	02/24/06	3767.30	73.32	80.00	3693.18	6.68	8.00	958.00
MW-1	02/28/06	3767.30	73.25	79.95	3693.25	6.70	0.00	958.00
MW-1	03/03/06	3767.30	73.27	79.99	3693.22	6.72	7.00	965.00
MW-1	03/06/06	3767.30	73.25	78.78	3693.39	5.53	8.00	973.00
MW-1	03/08/06	3767.30	73.32	79.81	3693.20	6.49	7.00	980.00
MW-1	03/15/06	3767.30	73.34	80.03	3693.16	6.69	8.00	988.00
MW-1	03/17/06	3767.30	73.25	79.89	3693.25	6.64	9.00	997.00
MW-1	03/21/06	3767.30	73.36	79.95	3693.15	6.59	6.50	1003.50
MW-1	03/28/06	3767.30	73.35	80.00	3693.15	6.65	8.50	1012.00
MW-1	03/30/06	3767.30	73.41	79.93	3693.11	6.52	7.50	1019.00
MW-1	04/04/06	3767.30	73.39	79.97	3693.12	6.58	7.50	1026.50
MW-1	04/07/06	3767.30	73.38	80.00	3693.13	6.62	7.00	1033.50
MW-1	04/12/06	3767.30	73.38	80.01	3693.12	6.63	8.50	1042.00
MW-1	04/14/06	3767.30	73.40	80.00	3693.11	6.60	7.50	1049.50
MW-1	04/18/06	3767.30	73.35	79.95	3693.16	6.60	7.50	1057.00
MW-1	04/21/06	3767.30	73.44	80.00	3693.07	6.56	8.00	1065.00
MW-1	04/26/06	3767.30	73.34	79.95	3693.17	6.61	8.00	1073.00
MW-1	04/28/06	3767.30	73.43	79.90	3693.09	6.47	7.00	1080.00
MW-1	05/04/06	3767.30	73.40	80.00	3693.11	6.60	7.00	1087.00
MW-1	05/05/06	3767.30	73.45	80.00	3693.06	6.55	6.50	1093.50
MW-1	05/10/06	3767.30	73.50	80.07	3693.01	6.57	7.50	1101.00
MW-1	05/12/06	3767.30	73.47	80.00	3693.03	6.57	6.00	1113.00
MW-1	05/16/06	3767.30	73.48	80.05	3693.02	6.51	6.50	1119.50
MW-1	05/18/06	3767.30	73.50	80.01	3693.04	6.59	5.50	1125.00
MW-1	05/23/06	3767.30	73.47	80.06	3693.04	6.58	6.50	1131.50
MW-1	05/26/06	3767.30	73.47	80.05	3693.04	6.58	6.50	1137.50
MW-1	05/30/06	3767.30	73.50	80.07	3693.01	6.52	5.50	1142.25
MW-1	06/01/06	3767.30	73.52	80.04	3693.00	6.58	5.00	1147.25
MW-1	06/06/06	3767.30	73.55	80.13	3692.96	6.57	6.00	1153.75
MW-1	06/09/06	3767.30	73.53	80.10	3692.98	6.56	6.00	1159.75
MW-1	06/13/06	3767.30	73.53	80.09	3692.98	6.54	5.50	1165.25
MW-1	06/16/06	3767.30	73.56	80.10	3692.96	6.54	0	1170.75
MW-1	06/20/06	3767.30	73.56	80.10	3692.96	6.55	9.00	1179.75
MW-1	06/23/06	3767.30	73.53	80.10	3692.98	6.52	8.50	1188.25
MW-1	06/27/06	3767.30	73.6	80.15	3692.91	6.38	9.00	1197.25
MW-1	06/30/06	3767.30	73.59	80.11	3692.93	6.52	7.50	1204.75
MW-1	07/05/06	3767.30	73.6	80.15	3692.91	6.52	7.50	1204.75
MW-1	07/07/06	3767.30	73.64	80.02	3692.89	6.54	7.50	1204.75
MW-1	07/11/06	3767.30	73.63	80.17	3692.89	6.54	7.50	1204.75

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-1	07/13/06	3767.30	73.69	80.07	3692.84	6.38	7.00	1211.75
MW-1	07/18/06	3767.30	73.66	80.19	3692.86	6.53	8.00	1219.75
MW-1	07/21/06	3767.30	73.65	80.14	3692.87	6.49	0.00	1219.75
MW-1	07/25/06	3767.30	73.68	80.23	3692.83	6.55	7.50	1227.25
MW-1	07/27/06	3767.30	73.7	80.10	3692.83	6.40	8.00	1235.25
MW-1	08/01/06	3767.30	73.71	80.23	3692.81	6.52	7.50	1242.75
MW-1	08/03/06	3767.30	73.75	80.14	3692.78	6.39	5.00	1247.75
MW-1	08/09/06	3767.30	73.73	80.26	3692.79	6.53	7.50	1255.25
MW-1	08/11/06	3767.30	73.77	80.17	3692.76	6.40	5.00	1260.25
MW-1	08/15/06	3767.30	73.77	80.29	3692.75	6.52	7.00	1267.25
MW-1	08/18/06	3767.30	73.48	80.28	3693.00	6.80	4.50	1271.75
MW-1	08/25/06	3767.30	73.81	80.32	3692.71	6.51	0.00	1271.75
MW-1	08/30/06	3767.30	NM	NM	NM	0.00	0.00	1271.75
MW-1	09/12/06	3767.30	NM	NM	NM	0.00	0.00	1271.75
MW-1	09/15/06	3767.30	NM	NM	NM	0.00	0.00	1271.75
MW-1	09/20/06	3767.30	NM	NM	NM	0.00	0.00	1271.75
MW-1	09/26/06	3767.30	NM	NM	NM	0.00	0.00	1271.75
MW-1	09/29/06	3767.30	NM	NM	NM	0.00	0.00	1271.75
MW-1	10/04/06	3767.30	NM	NM	NM	0.00	0.00	1271.75
MW-1	10/06/06	3767.30	79.04	85.64	3687.47	6.60	6.00	1277.75
MW-1	10/12/06	3767.30	79.07	85.64	3687.44	6.57	6.00	1283.75
MW-1	10/17/06	3767.30	79.1	85.65	3687.41	6.55	6.00	1289.75
MW-1	10/20/06	3767.30	79.6	85.60	3686.98	6.00	0.00	1289.75
MW-1	10/24/06	3767.30	79.05	85.60	3687.46	6.55	0.00	1289.75
MW-1	10/26/06	3767.30	79.6	85.64	3686.98	6.04	0.00	1289.75
MW-1	11/22/06	3767.30	79.18	85.78	3687.33	6.60	5.50	1295.25
MW-1	11/25/06	3767.30	79.21	85.83	3687.30	6.62	5.75	1301.00
MW-1	12/06/06	3767.30	79.3	85.87	3687.21	6.57	6.00	1307.00
MW-1	12/08/06	3767.30	79.6	85.6	3686.98	6.00	5.00	1312.00
MW-1	12/12/06	3767.30	80.33	88.8	3685.95	8.47	5.55	1317.55
MW-1	12/15/06	3767.30	79.28	85.79	3687.24	6.51	5.50	1323.05
MW-1	12/20/06	3767.30	78.78	78.88	3688.51	0.10	0.00	1323.05
MW-1	12/22/06	3767.30	79.34	85.87	3687.18	6.53	0.00	1323.05
MW-1	12/27/06	3767.30	79.35	85.92	3687.16	6.57	0.00	1323.05
MW-1	01/03/07	3767.30	79.38	85.97	3687.13	6.59	0.00	1323.05
MW-1	01/05/07	3767.30	79.38	85.91	3687.14	6.53	0.00	1323.05
MW-1	01/12/07	3767.30	78.46	86.04	3687.05	6.58	6.00	1329.05
MW-1	01/15/07	3767.30	79.46	85.92	3687.06	6.46	0.00	1329.05
MW-1	01/18/07	3767.30	79.43	85.96	3687.09	6.53	0.00	1334.05
MW-1	01/31/07	3767.30	79.4	86	3687.11	6.60	0.00	1334.05
MW-1	02/07/07	3767.30	79.3	85.85	3687.21	6.55	5.00	1339.05
MW-1	02/09/07	3767.30	79.5	85.85	3687.04	6.35	5.00	1344.05
MW-1	02/13/07	3767.30	79.48	85.96	3687.04	6.48	6.00	1350.05
MW-1	02/16/07	3767.30	79.44	85.91	3687.08	6.47	8.50	1358.55

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-1	02/19/07	3767.30	79.41	85.86	3687.12	6.45	8.50	1367.05
MW-1	02/21/07	3767.30	79.5	85.67	3687.06	6.17	6.00	1373.05
MW-1	02/26/07	3767.30	79.5	85.97	3687.02	6.47	5.00	1378.05
MW-1	03/01/07	3767.30	79.47	85.87	3687.06	6.40	7.00	1385.05
MW-1	03/06/07	3767.30	79.41	85.89	3687.11	6.48	0.00	1385.05
MW-1	03/09/07	3767.30	79.47	85.94	3687.05	6.47	0.00	1385.05
MW-1	03/13/07	3767.30	79.46	85.97	3687.06	6.51	7.50	1392.55
MW-1	03/23/07	3767.30	79.49	85.86	3687.03	6.47	0.00	1392.55
MW-1	03/27/07	3773.35	79.48	85.98	3693.22	6.50	0.00	1392.55
MW-1	03/29/07		79.38	85.87	3693.32	6.49	0.00	1392.55
MW-1	04/06/07		79.52	86.03	3693.18	6.51	0.00	1392.55
MW-1	04/11/07		79.5	86.01	3693.20	6.51	0.00	1392.55
MW-1	04/17/07		79.51	86.03	3693.19	6.52	7.00	1399.55
MW-1	04/19/07		79.55	85.79	3693.18	6.24	6.00	1405.55
MW-1	04/24/07		79.49	85.95	3693.21	6.46	5.00	1410.55
MW-1	05/01/07		79.51	86.02	3693.19	6.51	0.00	1410.55
MW-1	05/21/07		79.51	86.02	3693.19	6.51	0.00	1410.55
MW-1	05/24/07		79.61	86.11	3693.09	6.50	5.00	1415.55
MW-1	06/19/07		79.65	86.18	3693.05	6.53	0.00	1415.55
MW-1	06/26/07		79.68	86.22	3693.02	6.54	0.00	1415.55
MW-1	08/07/07		79.61	86.16	3693.09	6.55	6.00	1421.55
MW-1	08/17/07		79.67	86.21	3693.03	6.54	6.00	1427.55
MW-1	08/23/07		79.67	86.18	3693.03	6.51	8.75	1436.30
MW-1	08/31/07		79.71	86.22	3692.98	6.51	6.00	1442.30
MW-1	09/20/07		79.76	86.31	3692.94	6.55	0.00	1442.30
MW-1	09/21/07		79.79	86.36	3692.90	6.57	6.50	1448.80
MW-1	10/11/07		79.82	86.39	3692.87	6.57	6.00	1454.80
MW-1	10/18/07		79.86	86.36	3692.84	6.52	6.00	1460.80
MW-1	11/27/07		79.99	86.64	3692.70	6.65	0.00	1460.80
MW-1	12/17/07		80.04	86.70	3692.64	6.66	0.00	1460.80
MW-1	12/28/07		80.11	86.79	3692.57	6.68	0.00	1460.80
MW-1	12/31/07		80.14	86.83	3692.54	6.69	6.00	1466.80
MW-1	03/05/08		80.26	86.97	3692.42	6.71	6.00	1472.80
MW-1	03/26/08		80.33	87.04	3692.35	6.71	0.00	1472.80
MW-1	04/24/08		80.45	87.19	3692.23	6.74	6.00	1478.80
MW-1	05/05/08		80.48	87.22	3692.20	6.74	0.00	1478.80
MW-1	05/23/08		80.61	87.38	3692.06	6.77	0.00	1478.80
MW-1	06/30/08		80.88	87.72	3691.79	6.84	0.00	1478.80
MW-1	07/03/08		80.94	87.78	3691.73	6.84	0.00	1478.80
MW-1	07/16/08		81.02	87.81	3691.65	6.79	0.00	1478.80
MW-1	08/01/08		81.09	87.84	3691.59	6.75	0.00	1478.80
MW-1	08/05/08		81.19	87.94	3691.49	6.75	0.00	1478.80
MW-1	08/28/08		80.72	87.44	3691.96	6.72	0.00	1478.80
MW-1	09/18/08		80.78	87.15	3691.93	6.37	0.00	1478.80
MW-1	10/29/08		81.05	87.14	3691.69	6.09	0.00	1478.80
MW-1	12/17/08		81.16	87.63	3691.54	6.47	0.00	1478.80

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-2	10/29/04	3771.04		76.67	3694.37	0.00	N/A	N/A
MW-2	11/04/04	3771.04		76.79	3694.25	0.00	N/A	N/A
MW-2	11/10/04	3771.04		76.84	3694.20	0.00	N/A	N/A
MW-2	11/17/04	3771.04		76.89	3694.15	0.00	N/A	N/A
MW-2	11/24/04	3771.04		76.97	3694.07	0.00	N/A	N/A
MW-2	12/02/04	3771.04		76.91	3694.13	0.00	N/A	N/A
MW-2	12/08/04	3771.04		76.79	3694.25	0.00	N/A	N/A
MW-2	12/15/04	3771.04		76.81	3694.23	0.00	N/A	N/A
MW-2	12/27/04	3771.04		77.00	3694.04	0.00	N/A	N/A
MW-2	12/29/04	3771.04		77.01	3694.03	0.00	N/A	N/A
MW-2	01/08/05	3771.04		77.02	3694.02	0.00	N/A	N/A
MW-2	01/13/05	3771.04		77.09	3693.95	0.00	N/A	N/A
MW-2	01/19/05	3771.04		77.06	3693.98	0.00	N/A	N/A
MW-2	01/28/05	3771.04		77.09	3693.95	0.00	N/A	N/A
MW-2	02/02/05	3771.04		78.08	3692.96	0.00	N/A	N/A
MW-2	02/09/05	3771.04		77.13	3693.91	0.00	N/A	N/A
MW-2	02/18/05	3771.04		77.09	3693.95	0.00	N/A	N/A
MW-2	02/24/05	3771.04		77.11	3693.93	0.00	N/A	N/A
MW-2	03/03/05	3771.04		77.15	3693.89	0.00	N/A	N/A
MW-2	03/11/05	3771.04		77.10	3693.94	0.00	N/A	N/A
MW-2	03/18/05	3771.04		77.11	3693.93	0.00	N/A	N/A
MW-2	03/31/05	3771.04		77.14	3693.90	0.00	N/A	N/A
MW-2	04/07/05	3771.04		77.17	3693.87	0.00	N/A	N/A
MW-2	05/18/05	3771.04		79.40	3691.64	0.00	N/A	N/A
MW-2	05/23/05	3771.04		79.40	3691.64	0.00	N/A	N/A
MW-2	06/01/05	3771.04		77.22	3693.82	0.00	N/A	N/A
MW-2	06/03/05	3771.04		77.25	3693.79	0.00	N/A	N/A
MW-2	06/07/05	3771.04		77.25	3693.79	0.00	N/A	N/A
MW-2	06/10/05	3771.04		77.24	3693.80	0.00	N/A	N/A
MW-2	06/13/05	3771.04		77.27	3693.77	0.00	N/A	N/A
MW-2	06/16/05	3771.04		77.25	3693.79	0.00	N/A	N/A
MW-2	06/20/05	3771.04		77.29	3693.75	0.00	N/A	N/A
MW-2	06/22/05	3771.04		77.29	3693.75	0.00	N/A	N/A
MW-2	06/29/05	3771.04		77.29	3693.75	0.00	N/A	N/A
MW-2	07/01/05	3771.04		77.30	3693.74	0.00	N/A	N/A
MW-2	07/06/05	3771.04		77.31	3693.73	0.00	N/A	N/A
MW-2	07/08/05	3771.04		77.32	3693.72	0.00	N/A	N/A
MW-2	07/12/05	3771.04		77.34	3693.70	0.00	N/A	N/A
MW-2	07/14/05	3771.04		77.33	3693.71	0.00	N/A	N/A
MW-2	07/19/05	3771.04		77.36	3693.68	0.00	N/A	N/A
MW-2	07/21/05	3771.04		77.38	3693.66	0.00	N/A	N/A
MW-2	07/26/05	3771.04		77.40	3693.64	0.00	N/A	N/A
MW-2	07/28/05	3771.04		77.40	3693.64	0.00	N/A	N/A
MW-2	08/02/05	3771.04		77.42	3693.62	0.00	N/A	N/A
MW-2	08/04/05	3771.04		77.43	3693.61	0.00	N/A	N/A
MW-2	08/09/05	3771.04		77.44	3693.60	0.00	N/A	N/A
MW-2	08/11/05	3771.04		77.45	3693.59	0.00	N/A	N/A
MW-2	08/16/05	3771.04		77.47	3693.57	0.00	N/A	N/A

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-2	08/18/05	3771.04		77.47	3693.57	0.00	N/A	N/A
MW-2	08/24/05	3771.04		77.50	3693.54	0.00	N/A	N/A
MW-2	08/26/05	3771.04		77.50	3693.54	0.00	N/A	N/A
MW-2	08/30/05	3771.04		77.47	3693.57	0.00	N/A	N/A
MW-2	09/01/05	3771.04		77.44	3693.60	0.00	N/A	N/A
MW-2	09/06/05	3771.04		77.44	3693.60	0.00	N/A	N/A
MW-2	09/08/05	3771.04		77.44	3693.60	0.00	N/A	N/A
MW-2	09/13/05	3771.04		77.47	3693.57	0.00	N/A	N/A
MW-2	09/16/05	3771.04		77.50	3693.54	0.00	N/A	N/A
MW-2	09/20/05	3771.04		77.52	3693.52	0.00	N/A	N/A
MW-2	09/23/05	3771.04		77.52	3693.52	0.00	N/A	N/A
MW-2	09/27/05	3771.04		77.54	3693.50	0.00	N/A	N/A
MW-2	09/29/05	3771.04		77.56	3693.48	0.00	N/A	N/A
MW-2	10/04/05	3771.04		77.57	3693.47	0.00	N/A	N/A
MW-2	10/06/05	3771.04		77.60	3693.44	0.00	N/A	N/A
MW-2	10/11/05	3771.04		77.60	3693.44	0.00	N/A	N/A
MW-2	10/13/05	3771.04		77.61	3693.43	0.00	N/A	N/A
MW-2	10/18/05	3771.04		77.61	3693.43	0.00	N/A	N/A
MW-2	10/21/05	3771.04		77.65	3693.39	0.00	N/A	N/A
MW-2	10/28/05	3771.04		77.63	3693.41	0.00	N/A	N/A
MW-2	11/01/05	3771.04		77.69	3693.35	0.00	N/A	N/A
MW-2	11/04/05	3771.04		77.69	3693.35	0.00	N/A	N/A
MW-2	11/09/05	3771.04		77.73	3693.31	0.00	N/A	N/A
MW-2	11/11/05	3771.04		77.73	3693.31	0.00	N/A	N/A
MW-2	11/16/05	3771.04		77.28	3693.76	0.00	N/A	N/A
MW-2	11/18/05	3771.04		77.78	3693.26	0.00	N/A	N/A
MW-2	11/22/05	3771.04		77.77	3693.27	0.00	N/A	N/A
MW-2	11/30/05	3771.04		77.80	3693.24	0.00	N/A	N/A
MW-2	12/02/05	3771.04		77.79	3693.25	0.00	N/A	N/A
MW-2	12/06/05	3771.04		77.88	3693.16	0.00	N/A	N/A
MW-2	12/14/05	3771.04		77.83	3693.21	0.00	N/A	N/A
MW-2	12/16/05	3771.04		77.81	3693.23	0.00	N/A	N/A
MW-2	12/21/05	3771.04		77.81	3693.23	0.00	N/A	N/A
MW-2	12/23/05	3771.04		77.85	3693.19	0.00	N/A	N/A
MW-2	12/27/05	3771.04		77.85	3693.19	0.00	N/A	N/A
MW-2	12/30/05	3771.04		77.71	3693.33	0.00	N/A	N/A
MW-2	01/03/06	3771.04		77.90	3693.14	0.00	N/A	N/A
MW-2	01/05/06	3771.04		77.87	3693.17	0.00	N/A	N/A
MW-2	01/11/06	3771.04		77.91	3693.13	0.00	N/A	N/A
MW-2	01/13/06	3771.04		77.86	3693.16	0.00	N/A	N/A
MW-2	01/18/06	3771.04		77.90	3693.14	0.00	N/A	N/A
MW-2	01/20/06	3771.04		77.91	3693.13	0.00	N/A	N/A
MW-2	01/24/06	3771.04		78.92	3692.12	0.00	N/A	N/A
MW-2	01/26/06	3771.04		78.90	3692.14	0.00	N/A	N/A
MW-2	02/02/06	3771.04		77.87	3693.17	0.00	N/A	N/A
MW-2	02/08/06	3771.04		77.91	3693.13	0.00	N/A	N/A
MW-2	02/10/06	3771.04		77.90	3693.14	0.00	N/A	N/A

TABLE 1

Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.

8" MOORE TO JAL #2 - SRS# 2002-10273

NMOCD REF. # AP-92

LEA COUNTY, NEW MEXICO

Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-2	02/14/06	3771.04		77.93	3693.11	0.00	N/A	N/A
MW-2	02/16/06	3771.04		77.94	3693.10	0.00	N/A	N/A
MW-2	02/21/06	3771.04		77.95	3693.09	0.00	N/A	N/A
MW-2	02/24/06	3771.04		77.95	3693.09	0.00	N/A	N/A
MW-2	02/28/06	3771.04		77.93	3693.11	0.00	N/A	N/A
MW-2	03/03/06	3771.04		77.92	3693.12	0.00	N/A	N/A
MW-2	03/08/06	3771.04		77.90	3693.14	0.00	N/A	N/A
MW-2	03/08/06	3771.04		77.95	3693.09	0.00	N/A	N/A
MW-2	03/15/06	3771.04		77.98	3693.06	0.00	N/A	N/A
MW-2	03/17/06	3771.04		78.08	3692.96	0.00	N/A	N/A
MW-2	03/21/06	3771.04		77.95	3693.09	0.00	N/A	N/A
MW-2	03/23/06	3771.04		77.86	3693.18	0.00	N/A	N/A
MW-2	03/28/06	3771.04		77.89	3693.15	0.00	N/A	N/A
MW-2	03/30/06	3771.04		77.86	3693.18	0.00	N/A	N/A
MW-2	04/04/06	3771.04		77.94	3693.10	0.00	N/A	N/A
MW-2	04/07/06	3771.04		78.00	3693.04	0.00	N/A	N/A
MW-2	04/12/06	3771.04		78.00	3693.04	0.00	N/A	N/A
MW-2	04/14/06	3771.04		78.01	3693.03	0.00	N/A	N/A
MW-2	04/18/06	3771.04		77.99	3693.05	0.00	N/A	N/A
MW-2	04/21/06	3771.04		78.04	3693.00	0.00	N/A	N/A
MW-2	04/26/06	3771.04		78.00	3693.04	0.00	N/A	N/A
MW-2	04/28/06	3771.04		78.04	3693.00	0.00	N/A	N/A
MW-2	05/04/06	3771.04		78.04	3693.00	0.00	N/A	N/A
MW-2	05/05/06	3771.04		78.05	3692.99	0.00	N/A	N/A
MW-2	05/10/06	3771.04		78.10	3692.94	0.00	N/A	N/A
MW-2	05/12/06	3771.04		78.08	3692.96	0.00	N/A	N/A
MW-2	05/16/06	3771.04		78.08	3692.96	0.00	N/A	N/A
MW-2	05/18/06	3771.04		78.09	3692.95	0.00	N/A	N/A
MW-2	05/23/06	3771.04		78.10	3692.94	0.00	N/A	N/A
MW-2	05/26/06	3771.04		78.10	3692.94	0.00	N/A	N/A
MW-2	05/30/06	3771.04		78.13	3692.91	0.00	N/A	N/A
MW-2	06/01/06	3771.04		78.13	3692.91	0.00	N/A	N/A
MW-2	06/09/06	3771.04		78.15	3692.89	0.00	N/A	N/A
MW-2	06/13/06	3771.04		78.15	3692.89	0.00	N/A	N/A
MW-2	06/20/06	3771.04		78.17	3692.87	0.00	N/A	N/A
MW-2	06/23/06	3771.04		78.17	3692.87	0.00	N/A	N/A
MW-2	06/27/06	3771.04		78.15	3692.89	0.00	N/A	N/A
MW-2	06/30/06	3771.04		78.20	3692.84	0.00	N/A	N/A
MW-2	07/05/06	3771.04		78.21	3692.83	0.00	N/A	N/A
MW-2	07/07/06	3771.04		78.22	3692.82	0.00	N/A	N/A
MW-2	07/11/06	3771.04		78.24	3692.80	0.00	N/A	N/A
MW-2	07/13/06	3771.04		78.25	3692.79	0.00	N/A	N/A
MW-2	07/19/06	3771.04		78.26	3692.78	0.00	N/A	N/A
MW-2	07/21/06	3771.04		78.25	3692.79	0.00	N/A	N/A
MW-2	07/25/06	3771.04		78.29	3692.75	0.00	N/A	N/A
MW-2	07/27/06	3771.04		78.30	3692.74	0.00	N/A	N/A

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (in)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-2	08/01/06	3771.04		78.34	3692.70	0.00	N/A	N/A
MW-2	08/03/06	3771.04		78.36	3692.68	0.00	N/A	N/A
MW-2	08/09/06	3771.04		78.35	3692.69	0.00	N/A	N/A
MW-2	08/11/06	3771.04		78.36	3692.68	0.00	N/A	N/A
MW-2	08/15/06	3771.04		78.38	3692.66	0.00	N/A	N/A
MW-2	08/18/06	3771.04		78.40	3692.64	0.00	N/A	N/A
MW-2	08/25/06	3771.04		78.43	3692.61	0.00	N/A	N/A
MW-2	08/30/06	3771.04		78.45	3692.59	0.00	N/A	N/A
MW-2	09/12/06	3771.04	78.47	78.52	3692.56	0.05	N/A	N/A
MW-2	09/15/06	3771.04	78.48	78.55	3692.55	0.07	N/A	N/A
MW-2	09/20/06	3771.04	78.46	78.58	3692.57	0.12	N/A	N/A
MW-2	09/26/06	3771.04	78.49	78.65	3692.53	0.16	N/A	N/A
MW-2	09/29/06	3771.04	78.52	78.68	3692.50	0.16	N/A	N/A
MW-2	10/04/06	3771.04	N.D.	78.53	3692.51	0.00	N/A	N/A
MW-2	10/06/06	3771.04	78.54	78.74	3692.36	1.20	1.00	1.00
MW-2	10/12/06	3771.04	78.56	78.77	3692.45	0.21	0.00	1.00
MW-2	10/17/06	3771.04	78.59	78.79	3692.43	0.20	0.00	1.00
MW-2	10/20/06	3771.04	78.57	78.78	3692.44	0.21	0.00	1.00
MW-2	10/24/06	3771.04	78.50	78.75	3692.51	0.25	0.00	1.00
MW-2	11/26/06	3771.04	78.56	78.78	3692.45	0.22	0.00	1.00
MW-2	11/22/06	3771.04	78.71	78.85	3692.31	0.14	0.00	1.00
MW-2	11/28/06	3771.04	78.73	78.87	3692.29	0.14	0.00	1.00
MW-2	12/06/06	3771.04	78.81	78.91	3692.22	0.10	0.00	1.00
MW-2	12/08/06	3771.04	78.57	78.78	3692.44	0.21	0.00	1.00
MW-2	12/12/06	3771.04	0.00	78.73	3692.31	0.00	0.00	1.00
MW-2	12/15/06	3771.04	78.78	78.98	3692.24	0.20	0.00	1.00
MW-2	12/20/06	3771.04	78.28	85.81	3690.98	6.53	0.00	1.00
MW-2	12/22/06	3771.04	78.82	79.91	3692.09	1.09	0.00	1.00
MW-2	12/27/06	3771.04	78.84	78.96	3692.19	0.12	0.00	1.00
MW-2	01/03/07	3771.04	78.88	78.98	3692.15	0.10	0.00	1.00
MW-2	01/05/07	3771.04	78.89	78.96	3692.14	0.07	0.00	1.00
MW-2	01/12/07	3771.04	78.92	79.02	3692.11	0.10	0.00	1.00
MW-2	01/15/07	3771.04	78.92	79.04	3692.11	0.12	0.00	1.00
MW-2	01/18/07	3771.04	78.90	78.92	3692.13	0.08	0.00	1.00
MW-2	01/31/07	3771.04	78.81	78.92	3692.22	0.11	0.00	1.00
MW-2	02/07/07	3771.04	78.97	79.09	3692.06	0.12	0.00	1.00
MW-2	02/09/07	3771.04	78.97	79.05	3692.11	0.14	0.00	1.00
MW-2	02/13/07	3771.04	78.91	79.05	3692.11	0.14	0.00	1.00
MW-2	02/19/07	3771.04	78.96	79.05	3692.07	0.09	0.00	1.00
MW-2	02/21/07	3771.04	78.97	79.09	3692.06	0.12	0.00	1.00
MW-2	02/26/07	3771.04	78.98	79.15	3692.04	0.17	0.00	1.00
MW-2	03/01/07	3771.04	78.97	79.09	3692.06	0.12	0.00	1.00
MW-2	03/06/07	3771.04	78.94	79.04	3692.09	0.10	0.00	1.00
MW-2	03/09/07	3771.04	78.97	79.11	3692.05	0.14	0.00	1.00
MW-2	03/13/07	3771.04	78.96	85.97	3685.07	0.00	0.00	1.00
MW-2	03/23/07	3771.04	78.98	79.15	3692.04	0.17	0.00	1.00
MW-2	03/27/07	3772.07	78.97	79.15	3693.08	0.18	0.00	1.00

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (in)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-2	04/06/07		79.03	79.15	3693.03	0.12	0.00	1.00
MW-2	04/11/07		79.03	79.17	3693.03	0.14	0.00	1.00
MW-2	04/17/07		79.03	79.18	3693.03	0.15	7.00	8.00
MW-2	04/19/07		79.02	79.18	3693.03	0.16	0.00	8.00
MW-2	04/24/07		79.01	79.12	3693.05	0.11	0.00	8.00
MW-2	05/01/07		79.07	79.27	3692.98	0.20	0.00	8.00
MW-2	05/21/07		79.10	79.25	3692.96	0.15	0.00	8.00
MW-2	05/24/07		79.11	79.13	3692.96	0.02	0.00	8.00
MW-2	06/19/07		79.18	79.45	3692.86	0.27	0.00	8.00
MW-2	06/28/07		79.22	79.40	3692.83	0.18	0.00	8.00
MW-2	08/07/07		79.12	79.36	3692.93	0.24	0.00	8.00
MW-2	08/17/07		79.24	79.45	3692.81	0.21	0.00	8.00
MW-2	08/23/07		79.22	79.48	3692.82	0.26	0.00	8.00
MW-2	08/31/07		79.25	79.52	3692.79	0.27	0.00	8.00
MW-2	09/20/07		79.32	79.61	3692.72	0.29	0.00	8.00
MW-2	09/21/07		79.36	79.66	3692.68	0.30	0.00	8.00
MW-2	10/11/07		79.34	79.60	3692.70	0.26	0.00	8.00
MW-2	10/18/07		79.40	79.68	3692.64	0.28	0.00	8.00
MW-2	11/27/07		79.52	79.79	3692.52	0.27	0.00	8.00
MW-2	12/17/07		79.56	79.85	3692.48	0.29	0.00	8.00
MW-2	12/28/07		79.66	79.96	3692.38	0.30	0.00	8.00
MW-2	12/31/07		79.69	79.98	3692.35	0.29	0.00	8.00
MW-2	03/05/08		79.83	79.99	3692.22	0.16	0.00	8.00
MW-2	03/24/08		79.87	79.98	3692.19	0.11	0.00	8.00
MW-2	03/26/08		79.91	80.01	3692.15	0.10	0.00	8.00
MW-2	04/24/08		80.04	80.16	3692.02	0.12	0.00	8.00
MW-2	05/05/08		80.05	80.16	3692.01	0.11	0.00	8.00
MW-2	05/23/08		80.18	80.29	3691.88	0.11	0.00	8.00
MW-2	06/30/08		80.47	80.57	3691.59	0.10	0.00	8.00
MW-2	07/03/08		80.51	80.86	3691.53	0.35	0.00	8.00
MW-2	07/16/08		80.61	80.65	3691.46	0.04	0.00	8.00
MW-2	07/23/08			80.66	3691.41		0.00	8.00
MW-2	08/01/08			80.78	3691.29		0.00	8.00
MW-2	08/05/08			80.79	3691.28		0.00	8.00
MW-2	08/28/08		80.30	80.31	3691.77	0.01	0.00	8.00
MW-2	09/18/08		80.35	80.36	3691.72	0.01	0.00	8.00
MW-2	10/29/08			80.48	3691.59		0.00	8.00
MW-2	12/17/08			80.69	3691.38		0.00	8.00
MW-3	10/29/04	3771.94		78.18	3693.76	0.00	N/A	N/A
MW-3	11/04/04	3771.94		78.26	3693.68	0.00	N/A	N/A
MW-3	11/10/04	3771.94		78.30	3693.64	0.00	N/A	N/A
MW-3	11/17/04	3771.94		78.33	3693.61	0.00	N/A	N/A
MW-3	11/24/04	3771.94		78.41	3693.53	0.00	N/A	N/A
MW-3	12/02/04	3771.94		78.37	3693.57	0.00	N/A	N/A
MW-3	12/08/04	3771.94		78.30	3693.64	0.00	N/A	N/A
MW-3	12/15/04	3771.94		78.26	3693.68	0.00	N/A	N/A
MW-3	12/27/04	3771.94		78.42	3693.52	0.00	N/A	N/A

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-3	12/29/04	3771.94		78.42	3693.52	0.00	N/A	N/A
MW-3	01/06/05	3771.94		78.44	3693.50	0.00	N/A	N/A
MW-3	01/13/05	3771.94		78.48	3693.46	0.00	N/A	N/A
MW-3	01/19/05	3771.94		78.45	3693.49	0.00	N/A	N/A
MW-3	01/26/05	3771.94		78.50	3693.44	0.00	N/A	N/A
MW-3	02/02/05	3771.94		78.55	3693.39	0.00	N/A	N/A
MW-3	02/09/05	3771.94		78.52	3693.42	0.00	N/A	N/A
MW-3	02/16/05	3771.94		78.48	3693.46	0.00	N/A	N/A
MW-3	02/24/05	3771.94		78.48	3693.46	0.00	N/A	N/A
MW-3	03/03/05	3771.94		78.54	3693.40	0.00	N/A	N/A
MW-3	03/11/05	3771.94		78.53	3693.41	0.00	N/A	N/A
MW-3	03/18/05	3771.94		78.51	3693.43	0.00	N/A	N/A
MW-3	03/31/05	3771.94		78.56	3693.38	0.00	N/A	N/A
MW-3	04/07/05	3771.94		78.54	3693.40	0.00	N/A	N/A
MW-3	05/18/05	3771.94		79.40	3692.54	0.00	N/A	N/A
MW-3	05/23/05	3771.94		79.40	3692.54	0.00	N/A	N/A
MW-3	06/01/05	3771.94		78.66	3693.28	0.00	N/A	N/A
MW-3	06/03/05	3771.94		78.65	3693.29	0.00	N/A	N/A
MW-3	06/07/05	3771.94		78.67	3693.27	0.00	N/A	N/A
MW-3	06/10/05	3771.94		78.60	3693.34	0.00	N/A	N/A
MW-3	06/13/05	3771.94		78.61	3693.33	0.00	N/A	N/A
MW-3	06/18/05	3771.94		78.61	3693.33	0.00	N/A	N/A
MW-3	06/20/05	3771.94		78.66	3693.28	0.00	N/A	N/A
MW-3	06/22/05	3771.94		78.66	3693.28	0.00	N/A	N/A
MW-3	06/29/05	3771.94		78.64	3693.30	0.00	N/A	N/A
MW-3	07/01/05	3771.94		78.67	3693.27	0.00	N/A	N/A
MW-3	07/06/05	3771.94		78.68	3693.26	0.00	N/A	N/A
MW-3	07/08/05	3771.94		78.70	3693.24	0.00	N/A	N/A
MW-3	07/12/05	3771.94		78.72	3693.22	0.00	N/A	N/A
MW-3	07/14/05	3771.94		78.71	3693.23	0.00	N/A	N/A
MW-3	07/19/05	3771.94		78.73	3693.21	0.00	N/A	N/A
MW-3	07/21/05	3771.94		78.75	3693.19	0.00	N/A	N/A
MW-3	07/26/05	3771.94		78.78	3693.16	0.00	N/A	N/A
MW-3	07/28/05	3771.94		78.78	3693.16	0.00	N/A	N/A
MW-3	08/02/05	3771.94		78.78	3693.16	0.00	N/A	N/A
MW-3	08/04/05	3771.94		78.80	3693.14	0.00	N/A	N/A
MW-3	08/09/05	3771.94		78.80	3693.14	0.00	N/A	N/A
MW-3	08/11/05	3771.94		78.81	3693.13	0.00	N/A	N/A
MW-3	08/16/05	3771.94		78.84	3693.10	0.00	N/A	N/A
MW-3	08/18/05	3771.94		78.83	3693.11	0.00	N/A	N/A
MW-3	08/24/05	3771.94		78.86	3693.08	0.00	N/A	N/A
MW-3	08/26/05	3771.94		78.86	3693.08	0.00	N/A	N/A
MW-3	08/30/05	3771.94		78.87	3693.07	0.00	N/A	N/A
MW-3	09/01/05	3771.94		78.87	3693.07	0.00	N/A	N/A
MW-3	09/06/05	3771.94		78.85	3693.09	0.00	N/A	N/A
MW-3	09/08/05	3771.94		78.86	3693.08	0.00	N/A	N/A
MW-3	09/13/05	3771.94		78.87	3693.07	0.00	N/A	N/A
MW-3	09/18/05	3771.94	78.89	78.91	3693.05	0.02	0.00	0.00

TABLE 1
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PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-3	09/20/05	3771.94	78.90	78.94	3693.04	0.04	0.00	0.00
MW-3	09/23/05	3771.94	78.91	78.96	3693.02	0.05	0.00	0.00
MW-3	09/27/05	3771.94	78.90	78.90	3693.03	0.10	0.00	0.00
MW-3	09/29/05	3771.94	78.92	79.02	3693.01	0.10	0.00	0.00
MW-3	10/04/05	3771.94	78.94	79.04	3692.99	0.10	0.00	0.00
MW-3	10/06/05	3771.94	78.95	79.09	3692.97	0.14	0.00	0.00
MW-3	10/11/05	3771.94	78.96	79.10	3692.96	0.14	0.00	0.00
MW-3	10/13/05	3771.94	78.97	79.12	3692.95	0.15	0.00	0.00
MW-3	10/18/05	3771.94	78.97	79.13	3692.95	0.16	0.00	0.00
MW-3	10/21/05	3771.94	79.01	79.19	3692.91	0.18	0.00	0.00
MW-3	10/26/05	3771.94	78.99	79.17	3692.93	0.18	0.00	0.00
MW-3	10/28/05	3771.94	79.00	79.19	3692.92	0.19	0.00	0.00
MW-3	11/01/05	3771.94	79.03	79.27	3692.88	0.24	0.00	0.00
MW-3	11/04/05	3771.94	79.03	79.28	3692.88	0.25	0.00	0.00
MW-3	11/09/05	3771.94	79.07	79.35	3692.84	0.28	0.00	0.00
MW-3	11/11/05	3771.94	79.07	79.35	3692.84	0.28	0.00	0.00
MW-3	11/16/05	3771.94	79.08	79.41	3692.82	0.33	0.00	0.00
MW-3	11/18/05	3771.94	79.08	79.42	3692.81	0.33	0.00	0.00
MW-3	11/22/05	3771.94	79.08	79.43	3692.82	0.35	0.00	0.00
MW-3	11/30/05	3771.94	79.10	79.51	3692.79	0.41	0.00	0.00
MW-3	12/02/05	3771.94	79.10	79.50	3692.79	0.40	0.00	0.00
MW-3	12/06/05	3771.94	79.08	79.51	3692.81	0.43	0.00	0.00
MW-3	12/14/05	3771.94	79.11	79.62	3692.77	0.51	0.00	0.00
MW-3	12/16/05	3771.94	79.11	79.62	3692.77	0.51	0.00	0.00
MW-3	12/21/05	3771.94	79.11	79.62	3692.77	0.51	0.00	0.00
MW-3	12/23/05	3771.94	79.12	79.75	3692.74	0.63	0.00	0.00
MW-3	12/27/05	3771.94	79.12	79.75	3692.74	0.63	0.00	0.00
MW-3	12/30/05	3771.94	79.15	79.86	3692.70	0.71	0.00	0.00
MW-3	01/03/06	3771.94	79.13	79.93	3692.71	0.80	0.00	0.00
MW-3	01/05/06	3771.94	79.11	79.91	3692.73	0.80	0.00	0.00
MW-3	01/11/06	3771.94	79.10	80.08	3692.72	0.98	0.00	0.00
MW-3	01/13/06	3771.94	79.11	79.91	3692.73	0.80	0.00	0.00
MW-3	01/18/06	3771.94	79.06	80.27	3692.73	1.21	0.00	0.00
MW-3	01/20/06	3771.94	79.08	80.35	3692.71	1.27	0.00	0.00
MW-3	01/24/06	3771.94	79.05	80.47	3692.72	1.42	0.00	0.00
MW-3	01/26/06	3771.94	79.03	80.46	3692.74	1.43	0.00	0.00
MW-3	02/02/06	3771.94	79.00	80.69	3692.74	1.69	0.00	0.00
MW-3	02/08/06	3771.94	78.99	80.50	3692.77	1.51	1.50	1.50
MW-3	02/10/06	3771.94	78.97	80.48	3692.79	1.51	1.50	3.00
MW-3	02/14/06	3771.94	79.26	79.36	3692.87	0.10	0.00	3.00
MW-3	02/16/06	3771.94	79.22	79.37	3692.70	0.15	0.50	3.50
MW-3	02/21/06	3771.94	79.24	79.71	3692.64	0.47	0.25	3.75
MW-3	02/24/06	3771.94	79.25	79.55	3692.65	0.30	0.25	4.00
MW-3	02/28/06	3771.94	79.27	79.55	3692.64	0.28	0.28	4.28
MW-3	03/03/06	3771.94	79.21	79.55	3692.69	0.34	0.50	4.78
MW-3	03/06/06	3771.94	79.25	79.55	3692.65	0.30	0.20	4.98
MW-3	03/08/06	3771.94	79.25	79.49	3692.66	0.24	0.24	5.22
MW-3	03/15/06	3771.94	79.23	79.92	3692.63	0.69	0.24	5.46

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOC REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-3	03/17/06	3771.94	79.21	80.02	3692.63	0.81	0.00	5.46
MW-3	03/21/06	3771.94	79.14	81.00	3692.58	1.86	1.50	6.96
MW-3	03/23/06	3771.94	79.08	79.88	3692.76	0.80	0.00	6.96
MW-3	03/28/06	3771.94	79.15	80.20	3692.66	1.05	0.50	7.46
MW-3	03/30/06	3771.94	79.20	80.22	3692.62	1.02	0.00	7.46
MW-3	04/04/06	3771.94	79.17	80.24	3692.64	1.07	0.00	7.46
MW-3	04/07/06	3771.94	79.13	80.48	3692.65	1.35	0.00	7.46
MW-3	04/12/06	3771.94	79.07	80.82	3692.66	1.75	0.00	7.46
MW-3	04/14/06	3771.94	79.07	80.90	3692.65	1.83	0.00	7.46
MW-3	04/18/06	3771.94	79.00	81.13	3692.68	2.13	0.00	7.46
MW-3	04/21/06	3771.94	79.02	81.32	3692.64	2.30	0.00	7.46
MW-3	04/26/06	3771.94	78.91	81.53	3692.72	2.62	0.00	7.46
MW-3	04/28/06	3771.94	78.92	81.65	3692.69	2.73	0.00	7.46
MW-3	05/04/06	3771.94	78.88	81.82	3692.71	2.94	0.00	7.46
MW-3	05/05/06	3771.94	78.89	82.00	3692.68	3.11	0.00	7.46
MW-3	05/10/06	3771.94	78.60	82.31	3692.89	3.71	1.50	8.96
MW-3	05/12/06	3771.94	78.60	82.31	3692.89	3.71	1.50	10.46
MW-3	05/16/06	3771.94	79.15	80.90	3692.58	1.95	0.00	10.46
MW-3	05/18/06	3771.94	79.12	81.07	3692.59	2.39	1.00	11.46
MW-3	05/23/06	3771.94	79.09	81.20	3692.60	2.11	0.00	11.46
MW-3	05/30/06	3771.94	79.04	81.59	3692.59	2.55	1.50	12.96
MW-3	06/01/06	3771.94	79.03	80.53	3692.73	1.50	0.00	12.96
MW-3	06/06/06	3771.94	79.23	80.98	3692.50	1.75	0.00	12.96
MW-3	06/09/06	3771.94	79.18	81.10	3692.53	1.92	0.00	12.96
MW-3	06/13/06	3771.94	79.12	81.20	3692.57	2.08	0.00	12.96
MW-3	06/16/06	3771.94	78.11	81.58	3693.41	3.47	0.00	12.96
MW-3	06/20/06	3771.94	79.07	81.78	3692.54	2.71	0.00	12.96
MW-3	06/23/06	3771.94	79.03	81.89	3692.57	2.86	0.00	12.96
MW-3	06/27/06	3771.94	79.02	82.18	3692.54	3.16	0.00	12.96
MW-3	06/30/06	3771.94	79.00	82.23	3692.55	3.23	0.00	12.96
MW-3	07/05/06	3771.94	79.98	82.46	3691.66	2.48	0.00	12.96
MW-3	07/07/06	3771.94	78.97	82.57	3692.54	3.60	0.00	12.96
MW-3	07/11/06	3771.94	78.97	82.72	3692.52	3.75	0.00	12.96
MW-3	07/13/06	3771.94	78.86	82.80	3692.61	3.94	0.00	12.96
MW-3	07/18/06	3771.94	78.94	82.95	3692.52	4.01	0.00	12.96
MW-3	07/21/06	3771.94	78.73	82.99	3692.70	4.26	0.00	12.96
MW-3	07/25/06	3771.94	78.93	83.11	3692.51	4.18	0.00	12.96
MW-3	07/27/06	3771.94	78.92	83.14	3692.51	4.22	0.00	12.96
MW-3	08/01/06	3771.94	78.94	83.27	3692.48	4.33	0.00	12.96
MW-3	08/03/06	3771.94	78.95	83.30	3692.47	4.35	0.00	12.96
MW-3	08/09/06	3771.94	78.95	83.37	3692.46	4.42	0.00	12.96
MW-3	08/11/06	3771.94	78.96	83.37	3692.45	4.41	0.00	12.96
MW-3	08/15/06	3771.94	78.98	83.45	3692.42	4.47	0.00	12.96
MW-3	08/18/06	3771.94	78.98	83.47	3692.42	4.49	0.00	12.96
MW-3	08/25/06	3771.94	79.00	83.55	3692.39	4.55	0.00	12.96
MW-3	08/30/06	3771.94	79.02	83.61	3692.37	4.59	0.00	12.96
MW-3	09/12/06	3771.94	79.16	83.71	3692.23	4.55	0.00	12.96

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCDF REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-3	09/15/06	3771.94	79.04	83.72	3692.34	4.68	0.00	12.96
MW-3	09/20/06	3771.94	79.05	83.75	3692.33	4.70	0.00	12.96
MW-3	09/26/06	3771.94	79.09	83.80	3692.28	4.71	0.00	12.96
MW-3	09/29/06	3771.94	79.10	83.81	3692.27	4.71	0.00	12.96
MW-3	10/04/06	3771.94	79.13	83.94	3692.23	4.81	0.00	12.96
MW-3	10/06/06	3771.94	79.47	82.28	3692.13	2.81	0.00	12.96
MW-3	10/12/06	3771.94	79.55	82.04	3692.09	2.49	1.00	13.96
MW-3	10/17/06	3771.94	79.54	82.11	3692.09	2.57	1.00	14.96
MW-3	10/20/06	3771.94	79.52	82.29	3692.09	2.77	0.00	14.96
MW-3	10/24/06	3771.94	79.54	82.10	3692.09	2.56	0.00	14.96
MW-3	10/26/06	3771.94	79.58	82.29	3692.03	2.71	0.00	14.96
MW-3	11/22/06	3771.94	79.72	82.07	3691.94	2.35	1.50	16.46
MW-3	11/28/06	3771.94	79.92	81.27	3691.86	1.35	0.50	16.96
MW-3	12/06/06	3771.94	80.08	81.03	3691.75	0.95	0.00	16.96
MW-3	12/08/06	3771.94	79.52	82.29	3692.09	2.77	0.00	16.96
MW-3	12/12/06	3771.94	80.08	82.45	3691.59	2.39	2.00	18.96
MW-3	12/15/06	3771.94	80.04	81.03	3691.78	0.99	0.00	18.96
MW-3	12/20/06	3771.94	79.98	81.29	3691.80	1.31	0.00	18.96
MW-3	12/22/06	3771.94	79.98	81.46	3691.78	1.48	0.00	18.96
MW-3	12/27/06	3771.94	79.94	81.82	3691.77	1.88	0.00	18.96
MW-3	01/03/07	3771.94	80.15	80.94	3691.70	0.79	0.00	18.96
MW-3	01/05/07	3771.94	80.12	81.02	3691.71	0.90	0.00	18.96
MW-3	01/12/07	3771.94	80.08	81.38	3691.70	1.30	0.00	18.96
MW-3	01/15/07	3771.94	80.26	80.70	3691.63	0.44	0.00	18.96
MW-3	01/18/07	3771.94	80.22	80.80	3691.65	0.58	0.50	19.46
MW-3	01/31/07	3771.94	80.24	81.18	3691.59	0.94	0.00	19.46
MW-3	02/07/07	3771.94	79.97	81.45	3691.79	1.48	0.25	19.71
MW-3	02/09/07	3771.94	80.33	80.60	3691.58	0.27	0.00	19.71
MW-3	02/13/07	3771.94	80.29	80.81	3691.59	0.52	0.00	19.71
MW-3	02/16/07	3771.94	80.23	80.91	3691.63	0.68	0.00	19.71
MW-3	02/19/07	3771.94	80.19	81.09	3691.64	0.90	0.00	19.71
MW-3	02/21/07	3771.94	80.19	81.12	3691.64	0.93	0.00	19.71
MW-3	02/26/07	3771.94	80.20	81.43	3691.59	1.23	0.00	19.71
MW-3	03/01/07	3771.94	80.15	81.56	3691.62	1.41	0.00	19.71
MW-3	03/06/07	3771.94	80.02	81.71	3691.72	1.69	0.00	19.71
MW-3	03/09/07	3771.94	80.07	81.62	3691.68	1.55	0.00	19.71
MW-3	03/13/07	3771.94	80.03	82.07	3691.67	2.04	0.00	19.71
MW-3	03/23/07	3771.94	80.04	82.17	3691.64	2.13	0.00	19.71
MW-3	03/27/07	3772.86	80.01	82.42	3692.61	2.41	0.00	19.71
MW-3	04/06/07		79.96	82.83	3692.61	2.87	0.00	19.71
MW-3	04/11/07		79.90	83.01	3692.65	3.11	0.00	19.71
MW-3	04/17/07		79.90	83.11	3692.64	3.21	0.00	19.71
MW-3	04/19/07		79.89	83.17	3692.64	3.28	0.00	19.71
MW-3	04/24/07		79.87	82.25	3692.75	2.38	0.00	19.71
MW-3	05/01/07		79.81	83.87	3692.64	4.06	0.00	19.71
MW-3	05/21/07		79.85	83.75	3692.62	3.90	0.00	19.71
MW-3	05/24/07		79.86	81.57	3692.83	1.71	0.00	19.71
MW-3	06/19/07		79.80	84.12	3692.63	4.32	0.00	19.71

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (in)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-3	06/28/07		79.92	84.16	3692.82	4.24	0.00	19.71
MW-3	08/07/07		79.84	84.04	3692.60	4.20	4.00	23.71
MW-3	08/17/07		80.13	82.71	3692.47	2.58	1.00	24.71
MW-3	08/23/07		80.35	82.83	3692.26	2.48	0.25	24.96
MW-3	08/31/07		80.56	81.57	3692.20	1.01	1.00	25.96
MW-3	09/20/07		80.37	82.33	3692.29	1.96	0.00	25.96
MW-3	09/21/07		80.38	82.37	3692.28	1.99	1.60	27.56
MW-3	10/11/07		80.51	82.10	3692.19	1.59	0.00	27.56
MW-3	10/18/07		80.71	81.29	3692.09	0.58	0.00	27.56
MW-3	11/27/07		80.51	82.96	3692.11	2.45	0.00	27.56
MW-3	12/17/07		80.56	83.40	3692.02	2.84	0.00	27.56
MW-3	12/28/07		80.61	83.87	3691.92	3.26	0.00	27.56
MW-3	12/31/07		80.67	83.09	3691.95	2.42	2.00	29.56
MW-3	03/05/08		80.65	84.00	3691.88	3.35	3.00	32.56
MW-3	03/24/08		80.81	83.28	3691.80	2.47	2.00	34.56
MW-3	03/26/08		80.89	83.33	3691.73	2.44	0.00	34.56
MW-3	04/24/08		80.92	83.97	3691.64	3.05	0.00	34.56
MW-3	05/05/08		80.91	84.04	3691.64	3.13	0.00	34.56
MW-3	05/23/08		81.01	84.38	3691.51	3.37	0.00	34.56
MW-3	06/30/08		81.25	NA	NA	3.51	0.00	34.56
MW-3	07/03/08		80.31	NA	NA	4.59	0.00	34.56
MW-3	07/16/08		81.67	83.62	3691.00	1.95	0.00	34.56
MW-3	07/23/08		81.88	83.10	3690.86	1.22	0.00	34.56
MW-3	08/01/08		82.09	82.45	3690.73	0.36	0.00	34.56
MW-3	08/26/08		81.56	82.17	3691.24	0.61	0.00	34.56
MW-3	09/18/08		81.75	82.30	3691.06	0.55	0.00	34.56
MW-3	10/29/08		81.75	82.52	3691.03	0.77	0.00	34.56
MW-3	12/17/08		82.07	82.18	3690.78	0.11	0.00	34.56
MW-4	10/29/04	3772.86		79.22	3693.64	0.00	N/A	N/A
MW-4	11/04/04	3772.86		79.35	3693.51	0.00	N/A	N/A
MW-4	11/10/04	3772.86		79.34	3693.52	0.00	N/A	N/A
MW-4	11/17/04	3772.86		79.41	3693.45	0.00	N/A	N/A
MW-4	11/24/04	3772.86		79.49	3693.37	0.00	N/A	N/A
MW-4	12/02/04	3772.86		79.46	3693.40	0.00	N/A	N/A
MW-4	12/08/04	3772.86		79.35	3693.51	0.00	N/A	N/A
MW-4	12/15/04	3772.86		79.33	3693.53	0.00	N/A	N/A
MW-4	12/27/04	3772.86		79.48	3693.38	0.00	N/A	N/A
MW-4	12/29/04	3772.86		79.47	3693.39	0.00	N/A	N/A
MW-4	01/06/05	3772.86		79.51	3693.35	0.00	N/A	N/A
MW-4	01/13/05	3772.86		79.54	3693.32	0.00	N/A	N/A
MW-4	01/19/05	3772.86		79.51	3693.35	0.00	N/A	N/A
MW-4	01/26/05	3772.86		79.54	3693.32	0.00	N/A	N/A
MW-4	02/02/05	3772.86		79.51	3693.35	0.00	N/A	N/A
MW-4	02/09/05	3772.86		79.58	3693.28	0.00	N/A	N/A
MW-4	02/16/05	3772.86		79.52	3693.34	0.00	N/A	N/A
MW-4	02/24/05	3772.86		79.55	3693.31	0.00	N/A	N/A
MW-4	03/03/05	3772.86		79.57	3693.29	0.00	N/A	N/A

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8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-4	03/11/05	3772.86		79.46	3693.40	0.00	N/A	N/A
MW-4	03/18/05	3772.86		79.57	3693.29	0.00	N/A	N/A
MW-4	03/31/05	3772.86		79.61	3693.25	0.00	N/A	N/A
MW-4	04/07/05	3772.86		79.59	3693.27	0.00	N/A	N/A
MW-4	05/18/05	3772.86		79.40	3693.46	0.00	N/A	N/A
MW-4	05/23/05	3772.86		79.40	3693.46	0.00	N/A	N/A
MW-4	06/01/05	3772.86		79.66	3693.20	0.00	N/A	N/A
MW-4	06/03/05	3772.86		79.65	3693.21	0.00	N/A	N/A
MW-4	06/07/05	3772.86		79.67	3693.19	0.00	N/A	N/A
MW-4	06/10/05	3772.86		79.64	3693.22	0.00	N/A	N/A
MW-4	06/13/05	3772.86		79.61	3693.25	0.00	N/A	N/A
MW-4	06/16/05	3772.86		79.65	3693.21	0.00	N/A	N/A
MW-4	06/20/05	3772.86		79.90	3692.96	0.00	N/A	N/A
MW-4	06/22/05	3772.86		79.70	3693.16	0.00	N/A	N/A
MW-4	06/29/05	3772.86		79.68	3693.18	0.00	N/A	N/A
MW-4	07/01/05	3772.86		79.71	3693.15	0.00	N/A	N/A
MW-4	07/08/05	3772.86		79.71	3693.15	0.00	N/A	N/A
MW-4	07/08/05	3772.86		79.75	3693.11	0.00	N/A	N/A
MW-4	07/12/05	3772.86		79.75	3693.11	0.00	N/A	N/A
MW-4	07/14/05	3772.86		79.75	3693.11	0.00	N/A	N/A
MW-4	07/19/05	3772.86		79.77	3693.09	0.00	N/A	N/A
MW-4	07/21/05	3772.86		79.79	3693.07	0.00	N/A	N/A
MW-4	07/26/05	3772.86		79.81	3693.05	0.00	N/A	N/A
MW-4	07/28/05	3772.86		79.81	3693.05	0.00	N/A	N/A
MW-4	08/02/05	3772.86		79.82	3693.04	0.00	N/A	N/A
MW-4	08/04/05	3772.86		79.84	3693.02	0.00	N/A	N/A
MW-4	08/09/05	3772.86		79.85	3693.01	0.00	N/A	N/A
MW-4	08/11/05	3772.86		79.86	3693.00	0.00	N/A	N/A
MW-4	08/16/05	3772.86		79.88	3692.98	0.00	N/A	N/A
MW-4	08/18/05	3772.86		79.88	3692.98	0.00	N/A	N/A
MW-4	08/24/05	3772.86		79.90	3692.96	0.00	N/A	N/A
MW-4	08/26/05	3772.86		79.91	3692.95	0.00	N/A	N/A
MW-4	08/30/05	3772.86		79.93	3692.93	0.00	N/A	N/A
MW-4	09/01/05	3772.86		79.92	3692.94	0.00	N/A	N/A
MW-4	09/06/05	3772.86		79.91	3692.95	0.00	N/A	N/A
MW-4	09/08/05	3772.86		79.94	3692.92	0.00	N/A	N/A
MW-4	09/13/05	3772.86		79.94	3692.92	0.00	N/A	N/A
MW-4	09/16/05	3772.86		79.96	3692.90	0.00	N/A	N/A
MW-4	09/20/05	3772.86		79.88	3692.98	0.00	N/A	N/A
MW-4	09/23/05	3772.86		79.79	3693.07	0.00	N/A	N/A
MW-4	09/27/05	3772.86		80.00	3692.96	0.00	N/A	N/A
MW-4	09/29/05	3772.86		80.01	3692.85	0.00	N/A	N/A
MW-4	10/04/05	3772.86		80.03	3692.83	0.00	N/A	N/A
MW-4	10/06/05	3772.86		80.04	3692.82	0.00	N/A	N/A
MW-4	10/11/05	3772.86		80.04	3692.82	0.00	N/A	N/A
MW-4	10/13/05	3772.86		80.05	3692.81	0.00	N/A	N/A
MW-4	10/18/05	3772.86		80.85	3692.01	0.00	N/A	N/A
MW-4	10/21/05	3772.86		80.09	3692.77	0.00	N/A	N/A

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-4	10/26/05	3772.86		80.08	3692.78	0.00	N/A	N/A
MW-4	10/26/05	3772.86		80.09	3692.77	0.00	N/A	N/A
MW-4	11/01/05	3772.86		80.13	3692.73	0.00	N/A	N/A
MW-4	11/04/05	3772.86		80.14	3692.72	0.00	N/A	N/A
MW-4	11/09/05	3772.86		80.18	3692.68	0.00	N/A	N/A
MW-4	11/11/05	3772.86		80.16	3692.70	0.00	N/A	N/A
MW-4	11/16/05	3772.86		80.21	3692.65	0.00	N/A	N/A
MW-4	11/18/05	3772.86		80.20	3692.66	0.00	N/A	N/A
MW-4	11/22/05	3772.86		80.20	3692.66	0.00	N/A	N/A
MW-4	11/30/05	3772.86		80.22	3692.64	0.00	N/A	N/A
MW-4	12/02/05	3772.86		80.22	3692.64	0.00	N/A	N/A
MW-4	12/06/05	3772.86		80.20	3692.66	0.00	N/A	N/A
MW-4	12/14/05	3772.86		80.25	3692.61	0.00	N/A	N/A
MW-4	12/16/05	3772.86		80.20	3692.66	0.00	N/A	N/A
MW-4	12/21/05	3772.86		80.20	3692.66	0.00	N/A	N/A
MW-4	12/23/05	3772.86		80.27	3692.59	0.00	N/A	N/A
MW-4	12/27/05	3772.86		80.26	3692.60	0.00	N/A	N/A
MW-4	12/30/05	3772.86		80.15	3692.71	0.00	N/A	N/A
MW-4	01/03/06	3772.86		80.31	3692.55	0.00	N/A	N/A
MW-4	01/05/06	3772.86		80.28	3692.58	0.00	N/A	N/A
MW-4	01/11/06	3772.86		80.31	3692.55	0.00	N/A	N/A
MW-4	01/13/06	3772.86		80.26	3692.60	0.00	N/A	N/A
MW-4	01/18/06	3772.86		80.32	3692.54	0.00	N/A	N/A
MW-4	01/20/06	3772.86		79.36	3693.50	0.00	N/A	N/A
MW-4	01/24/06	3772.86		80.37	3692.49	0.00	N/A	N/A
MW-4	01/26/06	3772.86		80.35	3692.51	0.00	N/A	N/A
MW-4	02/02/06	3772.86		80.36	3692.50	0.00	N/A	N/A
MW-4	02/08/06	3772.86		80.32	3692.54	0.00	N/A	N/A
MW-4	02/10/06	3772.86		80.33	3692.53	0.00	N/A	N/A
MW-4	02/14/06	3772.86		80.35	3692.51	0.00	N/A	N/A
MW-4	02/16/06	3772.86		80.35	3692.51	0.00	N/A	N/A
MW-4	02/21/06	3772.86		80.36	3692.50	0.00	N/A	N/A
MW-4	02/24/06	3772.86		80.36	3692.50	0.00	N/A	N/A
MW-4	02/28/06	3772.86		90.34	3682.52	0.00	N/A	N/A
MW-4	03/03/06	3772.86		80.30	3692.56	0.00	N/A	N/A
MW-4	03/08/06	3772.86		80.31	3692.55	0.00	N/A	N/A
MW-4	03/08/06	3772.86		80.35	3692.51	0.00	N/A	N/A
MW-4	03/15/06	3772.86		80.38	3692.48	0.00	N/A	N/A
MW-4	03/17/06	3772.86		80.30	3692.56	0.00	N/A	N/A
MW-4	03/21/06	3772.86		80.35	3692.51	0.00	N/A	N/A
MW-4	03/23/06	3772.86		80.25	3692.61	0.00	N/A	N/A
MW-4	03/28/06	3772.86		80.38	3692.48	0.00	N/A	N/A
MW-4	03/30/06	3772.86		80.29	3692.57	0.00	N/A	N/A
MW-4	04/04/06	3772.86		80.38	3692.48	0.00	N/A	N/A
MW-4	04/07/06	3772.86		80.45	3692.41	0.00	N/A	N/A
MW-4	04/12/06	3772.86		80.40	3692.46	0.00	N/A	N/A
MW-4	04/14/06	3772.86		80.40	3692.46	0.00	N/A	N/A
MW-4	04/18/06	3772.86		80.40	3692.46	0.00	N/A	N/A

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCDF REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-4	04/21/06	3772.86		80.44	3692.42	0.00	N/A	N/A
MW-4	04/26/06	3772.86		80.40	3692.46	0.00	N/A	N/A
MW-4	04/28/06	3772.86		80.43	3692.43	0.00	N/A	N/A
MW-4	05/04/06	3772.86		80.44	3692.42	0.00	N/A	N/A
MW-4	05/05/06	3772.86		80.45	3692.41	0.00	N/A	N/A
MW-4	05/10/06	3772.86		80.41	3692.45	0.00	N/A	N/A
MW-4	05/12/06	3772.86		80.48	3692.38	0.00	N/A	N/A
MW-4	05/16/06	3772.86		80.49	3692.37	0.00	N/A	N/A
MW-4	05/18/06	3772.86		80.50	3692.36	0.00	N/A	N/A
MW-4	05/23/06	3772.86		80.56	3692.30	0.00	N/A	N/A
MW-4	05/26/06	3772.86		80.51	3692.35	0.00	N/A	N/A
MW-4	05/30/06	3772.86		80.53	3692.33	0.00	N/A	N/A
MW-4	06/01/06	3772.86		80.53	3692.33	0.00	N/A	N/A
MW-4	06/06/06	3772.86		80.57	3692.29	0.00	N/A	N/A
MW-4	06/09/06	3772.86		80.54	3692.32	0.00	N/A	N/A
MW-4	06/13/06	3772.86		80.56	3692.30	0.00	N/A	N/A
MW-4	06/16/06	3772.86		80.56	3692.30	0.00	N/A	N/A
MW-4	06/20/06	3772.86		80.53	3692.33	0.00	N/A	N/A
MW-4	06/23/06	3772.86		80.56	3692.30	0.00	N/A	N/A
MW-4	06/27/06	3772.86		80.61	3692.25	0.00	N/A	N/A
MW-4	06/30/06	3772.86		80.6	3692.26	0.00	N/A	N/A
MW-4	07/05/06	3772.86		80.62	3692.24	0.00	N/A	N/A
MW-4	07/07/06	3772.86		80.62	3692.24	0.00	N/A	N/A
MW-4	07/11/06	3772.86		80.95	3691.91	0.00	N/A	N/A
MW-4	07/13/06	3772.86		80.68	3692.18	0.00	N/A	N/A
MW-4	07/18/06	3772.86		80.68	3692.18	0.00	N/A	N/A
MW-4	07/21/06	3772.86		80.67	3692.19	0.00	N/A	N/A
MW-4	07/25/06	3772.86		80.71	3692.15	0.00	N/A	N/A
MW-4	07/27/06	3772.86		80.7	3692.16	0.00	N/A	N/A
MW-4	08/01/06	3772.86		80.75	3692.11	0.00	N/A	N/A
MW-4	08/03/06	3772.86		80.75	3692.11	0.00	N/A	N/A
MW-4	08/08/06	3772.86		80.78	3692.08	0.00	N/A	N/A
MW-4	08/11/06	3772.86		80.78	3692.08	0.00	N/A	N/A
MW-4	08/15/06	3772.86		80.74	3692.12	0.00	N/A	N/A
MW-4	08/18/06	3772.86		80.81	3692.05	0.00	N/A	N/A
MW-4	08/25/06	3772.86		80.84	3692.02	0.00	N/A	N/A
MW-4	08/30/06	3772.86		80.86	3692.00	0.00	N/A	N/A
MW-4	09/12/06	3772.86		NM	NM	0.00	N/A	N/A
MW-4	09/15/06	3772.86		80.93	3691.93	0.00	N/A	N/A
MW-4	09/20/06	3772.86		80.93	3691.93	0.00	N/A	N/A
MW-4	09/26/06	3772.86		80.98	3691.88	0.00	N/A	N/A
MW-4	09/28/06	3772.86		79.98	3692.88	0.00	N/A	N/A
MW-4	10/04/06	3772.86		81.04	3691.82	0.00	N/A	N/A
MW-4	10/06/06	3772.86		81.03	3691.83	0.00	N/A	N/A
MW-4	10/12/06	3772.86		81.05	3691.81	0.00	N/A	N/A
MW-4	10/17/06	3772.86		81.08	3691.78	0.00	N/A	N/A
MW-4	10/20/06	3772.86		81.40	3691.46	0.00	N/A	N/A
MW-4	10/24/06	3772.86		81.05	3691.81	0.00	N/A	N/A

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOC REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-4	10/26/06	3772.86		81.05	3691.81	0.00	N/A	N/A
MW-4	11/22/06	3772.86		81.17	3691.69	0.00	N/A	N/A
MW-4	11/28/06	3772.86		81.20	3691.66	0.00	N/A	N/A
MW-4	12/06/06	3772.86		81.27	3691.59	0.00	N/A	N/A
MW-4	12/08/06	3772.86		81.07	3691.79	0.00	N/A	N/A
MW-4	12/12/06	3772.86		82.36	3690.50	0.00	N/A	N/A
MW-4	12/15/06	3772.86		81.07	3691.79	0.00	N/A	N/A
MW-4	12/20/06	3772.86		81.16	3691.70	0.00	N/A	N/A
MW-4	12/22/06	3772.86		81.29	3691.57	0.00	N/A	N/A
MW-4	12/27/06	3772.86		81.33	3691.53	0.00	N/A	N/A
MW-4	01/03/07	3772.86		81.34	3691.52	0.00	N/A	N/A
MW-4	01/05/07	3772.86		81.32	3691.54	0.00	N/A	N/A
MW-4	01/12/07	3772.86		81.36	3691.50	0.00	N/A	N/A
MW-4	01/15/07	3772.86		81.42	3691.44	0.00	N/A	N/A
MW-4	01/18/07	3772.86		81.39	3691.47	0.00	N/A	N/A
MW-4	01/31/07	3772.86		81.35	3691.51	0.00	N/A	N/A
MW-4	02/07/07	3772.86		81.27	3691.59	0.00	N/A	N/A
MW-4	02/09/07	3772.86		81.45	3691.41	0.00	N/A	N/A
MW-4	02/13/07	3772.86		81.41	3691.45	0.00	N/A	N/A
MW-4	02/16/07	3772.86	80.26	80.39	3692.58	0.13	N/A	N/A
MW-4	02/19/07	3772.86	81.36	81.37	3691.50	0.01	N/A	N/A
MW-4	02/21/07	3772.86		81.41	3691.45	0.00	N/A	N/A
MW-4	02/26/07	3772.86		81.44	3691.42	0.00	N/A	N/A
MW-4	03/01/07	3772.86		81.42	3691.44	0.00	N/A	N/A
MW-4	03/06/07	3772.86		81.11	3691.75	0.00	N/A	N/A
MW-4	03/09/07	3772.86		81.43	3691.43	0.00	N/A	N/A
MW-4	03/13/07	3772.86		81.42	3691.44	0.00	N/A	N/A
MW-4	03/23/07	3772.86		81.44	3691.42	0.00	N/A	N/A
MW-4	03/27/07	3773.76		81.43	3692.33	0.00	N/A	N/A
MW-4	03/29/07			81.12	3692.64	0.00	N/A	N/A
MW-4	04/06/07			81.47	3692.29	0.00	N/A	N/A
MW-4	04/11/07			81.46	3692.30	0.00	N/A	N/A
MW-4	04/17/07			81.47	3692.29	0.00	N/A	N/A
MW-4	04/19/07			81.47	3692.29	0.00	N/A	N/A
MW-4	04/24/07			81.43	3692.33	0.00	N/A	N/A
MW-4	05/01/07			81.51	3692.25	0.00	N/A	N/A
MW-4	05/21/07			81.51	3692.25	0.00	N/A	N/A
MW-4	05/24/07			81.57	3692.19	0.00	N/A	N/A
MW-4	06/19/07			81.51	3692.25	0.00	N/A	N/A
MW-4	06/28/07			81.49	3692.27	0.00	N/A	N/A
MW-4	08/07/07			81.54	3692.22	0.00	N/A	N/A
MW-4	08/17/07			81.62	3692.14	0.00	N/A	N/A
MW-4	08/23/07			81.64	3692.12	0.00	N/A	N/A
MW-4	09/20/07			81.72	3692.04	0.00	N/A	N/A
MW-4	10/11/07			81.77	3691.99	0.00	N/A	N/A
MW-4	11/27/07			81.97	3691.79	0.00	N/A	N/A
MW-4	12/17/07			82.04	3691.72	0.00	N/A	N/A
MW-4	12/28/07			82.06	3691.70	0.00	N/A	N/A

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PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOC D REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (in)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-4	03/05/08			82.28	3691.48	0.00	N/A	N/A
MW-4	03/26/08			82.34	3691.42	0.00	N/A	N/A
MW-4	04/24/08			82.31	3691.45	0.00	N/A	N/A
MW-4	05/23/08			82.39	3691.37	0.00	N/A	N/A
MW-4	06/30/08			82.57	3691.19	0.00	N/A	N/A
MW-4	08/05/08			82.62	3691.14	0.00	N/A	N/A
MW-4	09/18/08			82.61	3690.95	0.00	N/A	N/A
MW-4	10/29/08			82.61	3691.15	0.00	N/A	N/A
MW-4	12/17/08			83.13	3690.63	0.00	N/A	N/A
MW-5	11/16/07	Installed Well						
MW-5	11/27/07	3772.08	79.69	79.98	3692.36	0.29	0.00	0.00
MW-5	12/17/07		79.55	80.91	3692.39	1.36	0.00	0.00
MW-5	12/28/07		78.49	81.68	3692.37	2.19	0.00	0.00
MW-5	12/31/08		79.43	81.88	3692.41	2.45	2.00	2.00
MW-5	03/05/08		78.96	84.96	3692.52	6.00	6.00	8.00
MW-5	03/24/08		78.98	81.04	3692.89	2.06	2.00	10.00
MW-5	03/26/08		79.74	81.68	3692.15	1.94	0.00	10.00
MW-5	04/24/08		79.21	84.94	3692.30	5.73	0.00	10.00
MW-5	05/05/08		79.16	85.14	3692.32	5.98	0.00	10.00
MW-5	05/23/08		79.22	85.37	3692.25	6.15	0.00	10.00
MW-5	06/30/08		79.57	85.68	3691.90	6.11	0.00	10.00
MW-5	07/03/08		79.61	85.73	3691.86	6.12	0.00	10.00
MW-5	07/16/08		79.94	84.68	3691.67	4.74	0.00	10.00
MW-5	07/23/08		80.32	83.33	3691.46	3.01	0.00	10.00
MW-5	08/01/08		80.42	83.34	3691.37	2.92	0.00	10.00
MW-5	08/05/08		80.59	82.66	3691.28	2.07	0.00	10.00
MW-5	08/28/08		79.63	84.41	3691.97	4.78	0.00	10.00
MW-5	09/18/08		79.52	85.3	3691.98	5.78	0.00	10.00
MW-5	10/29/08		79.88	84.27	3691.76	4.39	0.00	10.00
MW-5	12/17/08		80.79	81.19	3691.25	0.40	0.00	10.00
MW-6	11/15/07	Installed Well						
MW-6	11/27/07	3772.99	80.66	81.54	3692.24	0.88	0.00	0.00
MW-6	12/17/07		80.42	83.14	3692.30	2.72	0.00	0.00
MW-6	12/28/07		80.24	84.27	3692.35	4.03	0.00	0.00
MW-6	12/31/08		80.21	84.66	3692.34	4.45	4.00	4.00
MW-6	03/05/08		79.96	86.41	3692.39	6.45	6.00	10.00
MW-6	03/24/08		79.96	86.21	3692.41	6.25	6.00	16.00
MW-6	03/26/08		80.02	86.46	3692.33	6.44	0.00	16.00
MW-6	04/24/08		80.16	86.64	3692.18	6.48	0.00	16.00
MW-6	05/05/08		80.18	86.66	3692.16	6.48	0.00	16.00
MW-6	05/23/08		80.31	86.84	3692.03	6.53	0.00	16.00
MW-6	06/30/08		80.59	87.17	3691.74	6.58	0.00	16.00
MW-6	07/03/08		80.63	87.23	3691.70	6.60	0.00	16.00
MW-6	07/16/08		80.73	87.20	3691.61	6.47	0.00	16.00
MW-6	07/23/08		80.80	87.36	3691.53	6.56	0.00	16.00
MW-6	08/01/08		80.95	87.18	3691.42	6.23	0.00	16.00

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-6	08/05/08		81.29	85.64	3691.27	4.35	0.00	18.00
MW-6	08/28/08		80.43	86.91	3691.91	6.48	0.00	16.00
MW-6	09/18/08		80.49	87.01	3691.85	6.52	0.00	16.00
MW-6	10/29/08		80.70	86.83	3691.68	6.13	0.00	16.00
MW-6	12/17/08		81.86	82.53	3691.06	0.67	0.00	16.00
MW-7	11/15/07	Installed Well						
MW-7	11/27/07	3772.92	80.72	81.56	3692.12	0.84	0.00	0.00
MW-7	12/17/07		80.51	82.94	3692.17	2.43	0.00	0.00
MW-7	12/28/07		80.44	83.86	3692.14	3.42	0.00	0.00
MW-7	12/31/08		80.91	84.19	3691.68	3.28	3.00	3.00
MW-7	03/05/08		80.04	86.55	3692.23	6.51	6.00	9.00
MW-7	03/24/08		80.09	88.48	3692.19	6.39	6.00	15.00
MW-7	03/26/08		80.16	86.55	3692.12	6.39	0.00	15.00
MW-7	04/24/08		80.24	86.77	3692.03	6.53	0.00	15.00
MW-7	05/05/08		80.24	86.77	3692.03	6.53	0.00	15.00
MW-7	05/23/08		80.38	86.94	3691.88	6.56	0.00	15.00
MW-7	06/30/08		80.67	87.25	3691.59	6.58	0.00	15.00
MW-7	07/03/08		80.71	87.31	3691.55	6.60	0.00	15.00
MW-7	07/16/08		81.12	85.84	3691.33	4.72	0.00	15.00
MW-7	07/23/08		80.90	86.86	3691.42	5.96	0.00	15.00
MW-7	08/01/08		81.24	86.26	3691.18	5.02	0.00	15.00
MW-7	08/05/08		81.53	84.94	3691.05	3.41	0.00	15.00
MW-7	08/28/08		80.57	86.73	3691.73	6.16	0.00	15.00
MW-7	09/18/08		80.58	87.02	3691.70	6.44	0.00	15.00
MW-7	10/29/08		80.83	86.7	3691.50	5.87	0.00	15.00
MW-7	12/17/08		80.98	87.09	3691.33	6.11	0.00	15.00
MW-8	11/15/07	Installed Well						
MW-8	11/27/07	3773.80		82.11	3691.69			
MW-8	12/17/07			82.21	3691.59			
MW-8	12/28/07			82.24	3691.56			
MW-8	03/05/08			82.44	3691.36			

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOC REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (in)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-8	03/26/08			82.41	3691.39			
MW-8	04/24/08			82.49	3691.31			
MW-8	05/23/08			82.56	3691.24			
MW-8	06/30/08			82.75	3691.05			
MW-8	09/05/08			82.78	3691.02			
MW-8	09/18/08			82.97	3690.83			
MW-8	10/29/08			83.11	3690.69			
MW-8	12/17/08			83.3	3690.50			
MW-9	11/15/07	Installed Well						
MW-9	11/27/07	3771.79	79.47	79.93	3692.27	0.46	0.00	0.00
MW-9	12/17/07		79.35	80.82	3692.29	1.47	0.00	0.00
MW-9	12/28/07		79.30	81.48	3692.27	2.18	0.00	0.00
MW-9	12/31/08		79.27	81.76	3692.27	2.49	2.00	2.00
MW-9	03/05/08		78.73	85.07	3692.43	6.34	6.00	8.00
MW-9	03/24/08		78.84	84.93	3692.34	6.09	6.00	14.00
MW-9	03/26/08		79.54	81.64	3692.04	2.10	0.00	14.00
MW-9	04/24/08		79.21	80.16	3692.49	0.95	0.00	14.00
MW-9	05/05/08		78.92	80.24	3692.74	1.32	0.00	14.00
MW-9	05/23/08		79.06	85.48	3692.09	6.42	0.00	14.00
MW-9	06/30/08		79.34	85.61	3691.82	6.27	0.00	14.00
MW-9	07/03/08		79.39	85.87	3691.75	6.48	0.00	14.00
MW-9	07/16/08		79.57	85.49	3691.63	5.92	0.00	14.00
MW-9	07/23/08		79.93	84.16	3691.44	4.23	0.00	14.00
MW-9	08/01/08		79.97	84.75	3691.34	4.78	0.00	14.00
MW-9	08/05/08		80.24	83.32	3691.24	3.08	0.00	14.00
MW-9	08/28/08		79.22	85.31	3691.96	6.09	0.00	14.00
MW-9	09/18/08		79.25	85.57	3691.91	6.32	0.00	14.00
MW-9	10/29/08		79.47	85.25	3691.74	5.78	0.00	14.00
MW-9	12/17/08		80.60	81.19	3691.13	0.59	0.00	14.00
MW-10	11/15/07	Installed Well						
MW-10	11/27/07	3771.90		79.13	3692.77			
MW-10	12/17/07			79.18	3692.72			
MW-10	12/28/07			79.18	3692.72			
MW-10	03/05/08			79.39	3692.51			
MW-10	03/26/08			79.36	3692.54			
MW-10	04/24/08			79.45	3692.45			
MW-10	05/23/08			79.51	3692.39			
MW-10	06/30/08			79.70	3692.20			
MW-10	08/05/08			79.73	3692.17			
MW-10	09/18/08			79.92	3691.98			
MW-10	10/29/08			80.03	3691.87			
MW-10	12/17/08			80.25	3691.65			

TABLE 1
Summary of PSH Thickness & Gauging Measurements
PLAINS PIPELINE, L.P.
8" MOORE TO JAL #2 - SRS# 2002-10273
NMOC REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

WELL ID	DATE GAUGED	Relative Top of Casing Elevation (Feet)*	Depth to PSH Below Top of Casing (Feet)	Depth to Water Below Top of Casing (Feet)	Adjusted Potentiometric Surface (Feet)*	PSH THICKNESS (ft)	PSH Volume Recovered (gallons)	PSH Cumulative Recovery (gallons)
MW-11	11/14/07	Installed Well 3772.97						
MW-11	11/27/07			80.50	3692.47			
MW-11	12/17/07			80.52	3692.45			
MW-11	12/28/07			80.58	3692.39			
MW-11	03/05/08			80.77	3692.20			
MW-11	03/26/08			80.73	3692.24			
MW-11	04/24/08			80.81	3692.16			
MW-11	05/23/08			79.89	3693.08			
MW-11	06/30/08			81.09	3691.88			
MW-11	08/05/08			81.12	3691.85			
MW-11	09/18/08			81.32	3691.65			
MW-11	10/29/08	Installed Well 3773.80		81.45	3691.52			
MW-11	12/17/08			81.64	3691.33			
MW-12	11/14/07							
MW-12	11/27/07			82.74	3691.06			
MW-12	12/17/07			81.77	3692.03			
MW-12	12/28/07			81.76	3692.04			
MW-12	03/05/08			81.98	3691.82			
MW-12	03/26/08			81.92	3691.88			
MW-12	04/24/08			82.02	3691.78			
MW-12	05/23/08			82.10	3691.70			
MW-12	06/30/08	Installed Well 3774.36		82.29	3691.51			
MW-12	08/05/08			82.32	3691.48			
MW-12	09/18/08			82.52	3691.28			
MW-12	10/29/08			82.67	3691.13			
MW-12	12/17/08			82.86	3690.94			
MW-13	11/14/07							
MW-13	11/27/07			82.71	3691.65			
MW-13	12/17/07			82.84	3691.52			
MW-13	12/28/07			82.86	3691.50			
MW-13	03/05/08			83.06	3691.30			
MW-13	03/26/08			83.01	3691.35			
MW-13	04/24/08			83.10	3691.26			
MW-13	05/23/08			83.18	3691.18			
MW-13	06/30/08			83.36	3691.00			
MW-13	08/05/08			83.40	3690.96			
MW-13	09/18/08	Existing wells now utilize new survey data back to 3/27/08		83.61	3690.75			
MW-13	10/29/08			83.75	3690.61			
MW-13	12/17/08			83.92	3690.44			

Existing wells now utilize new survey data back to 3/27/08
 NM=No Measurement

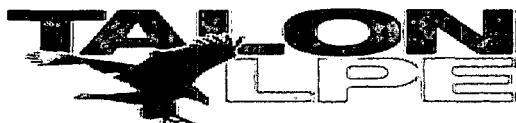


TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. #AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene
MW-1	03/27/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/30/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	09/20/08	16.8	3.45	1.15	2.04
	12/17/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-2	03/27/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/30/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	09/20/08	4.67	3.42	0.470	1.16
	12/17/08	0.0247	0.0542	0.0331	0.0586
MW-3	03/27/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/30/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	09/20/08	23.4	11.7	1.74	4.13
	12/17/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-4	03/27/08	21.8	0.956	0.724	0.811
	06/30/08	24.3	0.558	1.02	1.04
	09/19/08	26.4	2.91	1.21	1.39
	12/17/08	26.8	0.368	1.20	1.17
MW-5	03/27/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/30/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	09/20/08	5.36	4.73	0.878	2.00
	12/17/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-6	03/27/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/30/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	09/20/08	3.22	1.94	0.285	0.697
	12/17/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-7	03/27/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/30/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	09/20/08	10.7	1.78	0.453	0.785
	12/17/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-8	03/27/08	3.00	0.0817	0.0283	0.187
	06/30/08	8.55	1.12	0.244	0.687
	09/19/08	5.86	0.0798	<0.0500	0.304
	12/17/08	27.7	2.36	0.845	2.46



TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
MOORE TO JAL #2 - SRS# 2002-10273
NMOCD REF. #AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene
MW-9	03/27/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/30/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	09/20/08	14.1	5.20	1.10	1.96
	12/17/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-10	03/27/08	0.0283	0.00240	<0.00100	0.00290
	06/30/08	<0.00100	<0.00100	<0.00100	<0.00100
	09/19/08	<0.00100	<0.00100	<0.00100	0.00220
	12/17/08	0.00790	<0.00100	<0.00100	<0.00100
MW-11	03/27/08	0.0533	0.0177	0.00230	0.00820
	06/30/08	0.00190	<0.00100	<0.00100	<0.00100
	09/19/08	0.0171	0.00310	<0.00100	0.00100
	12/17/08	0.00340	<0.00100	<0.00100	<0.00100
MW-12	03/27/08	0.0566	0.0189	0.00270	0.00720
	06/30/08	0.00780	<0.00100	<0.00100	<0.00100
	09/19/08	0.0151	0.00140	<0.00100	<0.00100
	12/17/08	0.00400	<0.00100	<0.00100	<0.00100
MW-13	03/27/08	0.598	<0.00500	0.0115	0.00860
	06/30/08	0.191	<0.00500	<0.00500	<0.00500
	09/19/08	2.82	<0.0100	0.0575	0.0890
	12/17/08	2.41	<0.0100	0.0206	0.0609
NMWQCC Remedial Limits		0.010	0.750	0.750	0.620

***Bolded** values are in excess of the NMWQCC Remediation Thresholds*



TABLE 3
SUMMARY OF GROUNDWATER POLY-AROMATIC
HYDROCARBON (PAH) ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
MOORE TO JAL #2 - SRS# 2002-10723
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

All concentrations are in mg/L

Sample Location	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]-anthracene	Benzo[a]-pyrene	Benzo[b]-fluoranthene	Benzo[g,h,i]-perylene	Benzo[k]-fluoranthene	Chrysene	Dibenz[a,h]-anthracene	Dibenzofuran	Fluoranthene	Indeno[1,2,3-cd]-pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
MW-4	09/19/08	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00266	<0.000200	<0.000200	0.0355	0.0351	0.0675	0.00108	<0.000200
MW-8	09/19/08	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000203	<0.000200	<0.000200	0.00204	0.000297	0.000405	<0.000200	<0.000200
MW-10	09/19/08	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-11	09/19/08	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-12	09/19/08	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-13	09/19/08	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
NMWQCC Remedial Limits						0.007											0.030		

¹ **Bolded** values are in excess of the NMWQCC Remediation Thresholds



TABLE 4
SUMMARY OF PSH MONITOR WELLS GROUNDWATER POLY-AROMATIC
HYDROCARBON (PAH) ANALYTICAL RESULTS
PLAINS PIPELINE, L.P.
MOORE TO JAL #2 - SRS# 2002-10723
NMOCD REF. # AP-92
LEA COUNTY, NEW MEXICO
Talon/LPE Project Number PLAINS008SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	TPH DRO	TPH GRO	Total TPH	Acenaphthene	Acenaphthylene	Anthracene	Benz[a]-anthracene	Benz[a]-pyrene	Benz[b]-fluoranthene	Benz[g,h,i]-perylene	Benz[k]-fluoranthene	Chrysene	Dibenz[a,h]-anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno[1,2,3-cd]-pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
MW-1	09/20/08	16.8	3.45	1.15	2.04	5.30	54.5	59.80	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000394	<0.000200	<0.000200	0.00384	<0.000200	0.0157	0.000891	0.0220	<0.000200	0.161	0.184	0.0932	0.0271	0.00158
MW-2	09/20/08	4.67	3.42	0.470	1.16	7.08	25.9	32.98	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00782	<0.000200	0.0141	0.00104	0.0210	<0.000200	0.185	0.213	0.0747	0.0253	0.00288
MW-3	09/20/08	23.4	11.7	1.74	4.13	126	116	242	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.0290	0.00121	0.0377	<0.000200	0.807	0.872	0.430	0.0445	<0.000200
MW-5	09/20/08	5.36	4.73	0.878	2.00	16.4	38.2	54.6	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00481	<0.000200	0.0199	0.00119	0.0289	<0.000200	0.268	0.312	0.148	0.0336	0.00166
MW-6	09/20/08	3.22	1.94	0.285	0.697	<5.00	16.8	16.8	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000899	<0.000200	0.00269	0.00377	0.00377	<0.000200	0.0228	0.0266	0.0156	0.00430	<0.000200
MW-7	09/20/08	10.7	1.78	0.453	0.785	8.62	35.0	43.62	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00280	0.00403	0.00403	<0.000200	0.0314	0.0362	0.0422	0.00239	<0.000200
MW-9	09/20/08	14.1	5.20	1.10	1.96	12.0	74.2	86.2	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000950	<0.000200	0.00701	0.00729	0.00729	<0.000200	0.0702	0.0832	0.0840	0.00735	0.000350
NMWQCC Remedial Limits		0.01	0.75	0.75	0.62								0.0007													0.030	

Bolded values are in excess of the NMWQCC Remediation Thresholds
BTX, TPH and PAH analysis per the NMOCD in monitor wells that contain PSH

APPENDIX C

Laboratory Analytical Data Reports and Chain of Custody Documentation



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Analytical and Quality Control Report

Shanna Smith
Talon LPE-Midland
2901 State Highway 349
Midland, TX, 79706

Report Date: April 4, 2008

Work Order: 8032811



Project Location: Lea County, NM
Project Name: Moore to Jal #2
Project Number: Plains008SPL
SRS #: 2002-10273

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
154970	MW-4	water	2008-03-27	12:41	2008-03-28
154971	MW-8	water	2008-03-27	12:50	2008-03-28
154972	MW-10	water	2008-03-27	13:32	2008-03-28
154973	MW-11	water	2008-03-27	15:00	2008-03-28
154974	MW-12	water	2008-03-27	16:21	2008-03-28
154975	MW-13	water	2008-03-27	12:46	2008-03-28

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

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

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 154970 - MW-4

Analysis: BTEX
QC Batch: 47018
Prep Batch: 40437

Analytical Method: S 8021B
Date Analyzed: 2008-04-01
Sample Preparation: 2008-04-01

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		21.8	mg/L	200	0.00100
Toluene		0.956	mg/L	200	0.00100
Ethylbenzene		0.724	mg/L	200	0.00100
Xylene		0.811	mg/L	200	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		22.1	mg/L	200	20.0	110	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		15.7	mg/L	200	20.0	78	40.1 - 136

Sample: 154971 - MW-8

Analysis: BTEX
QC Batch: 47018
Prep Batch: 40437

Analytical Method: S 8021B
Date Analyzed: 2008-04-01
Sample Preparation: 2008-04-01

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		3.00	mg/L	10	0.00100
Toluene		0.0817	mg/L	10	0.00100
Ethylbenzene		0.0283	mg/L	10	0.00100
Xylene		0.187	mg/L	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.08	mg/L	10	1.00	108	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.794	mg/L	10	1.00	79	40.1 - 136

Sample: 154972 - MW-10

Analysis: BTEX
QC Batch: 47018
Prep Batch: 40437

Analytical Method: S 8021B
Date Analyzed: 2008-04-01
Sample Preparation: 2008-04-01

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0283	mg/L	1	0.00100
Toluene		0.00240	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00290	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0788	mg/L	1	0.100	79	40.1 - 136

Sample: 154973 - MW-11

Analysis: BTEX
QC Batch: 47018
Prep Batch: 40437

Analytical Method: S 8021B
Date Analyzed: 2008-04-01
Sample Preparation: 2008-04-01

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0533	mg/L	1	0.00100
Toluene		0.0177	mg/L	1	0.00100
Ethylbenzene		0.00230	mg/L	1	0.00100
Xylene		0.00820	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0804	mg/L	1	0.100	80	40.1 - 136

Sample: 154974 - MW-12

Analysis: BTEX
QC Batch: 47068
Prep Batch: 40483

Analytical Method: S 8021B
Date Analyzed: 2008-04-02
Sample Preparation: 2008-04-02

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0566	mg/L	1	0.00100
Toluene		0.0189	mg/L	1	0.00100
Ethylbenzene		0.00270	mg/L	1	0.00100
Xylene		0.00720	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0782	mg/L	1	0.100	78	40.1 - 136

Sample: 154975 - MW-13

Analysis: BTEX
QC Batch: 47097
Prep Batch: 40483

Analytical Method: S 8021B
Date Analyzed: 2008-04-03
Sample Preparation: 2008-04-02

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.598	mg/L	5	0.00100

continued ...

sample 154975 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<0.00500	mg/L	5	0.00100
Ethylbenzene		0.0115	mg/L	5	0.00100
Xylene		0.00860	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.536	mg/L	5	0.500	107	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.361	mg/L	5	0.500	72	40.1 - 136

Method Blank (1) QC Batch: 47018

QC Batch: 47018
Prep Batch: 40437

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0812	mg/L	1	0.100	81	69.1 - 122.3

Method Blank (1) QC Batch: 47068

QC Batch: 47068
Prep Batch: 40483

Date Analyzed: 2008-04-02
QC Preparation: 2008-04-02

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0818	mg/L	1	0.100	82	69.1 - 122.3

Method Blank (1) QC Batch: 47097

QC Batch: 47097
Prep Batch: 40483

Date Analyzed: 2008-04-03
QC Preparation: 2008-04-02

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0746	mg/L	1	0.100	75	69.1 - 122.3

Laboratory Control Spike (LCS-1)

QC Batch: 47018
Prep Batch: 40437

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0999	mg/L	1	0.100	<0.00110	100	84 - 119.7
Toluene	0.0989	mg/L	1	0.100	<0.00100	99	84.9 - 118.2
Ethylbenzene	0.0976	mg/L	1	0.100	<0.00100	98	84.4 - 118.6
Xylene	0.292	mg/L	1	0.300	<0.00290	97	84.8 - 117.8

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.104	mg/L	1	0.100	<0.00110	104	84 - 119.7	4	20
Toluene	0.102	mg/L	1	0.100	<0.00100	102	84.9 - 118.2	3	20
Ethylbenzene	0.101	mg/L	1	0.100	<0.00100	101	84.4 - 118.6	3	20
Xylene	0.302	mg/L	1	0.300	<0.00290	101	84.8 - 117.8	3	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.106	0.106	mg/L	1	0.100	106	106	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0820	0.0818	mg/L	1	0.100	82	82	67.7 - 126.3

Laboratory Control Spike (LCS-1)

QC Batch: 47068
Prep Batch: 40483

Date Analyzed: 2008-04-02
QC Preparation: 2008-04-02

Analyzed By: DC
Prepared By: DC

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.105	mg/L	1	0.100	<0.00110	105	84 - 119.7
Toluene	0.104	mg/L	1	0.100	<0.00100	104	84.9 - 118.2
Ethylbenzene	0.103	mg/L	1	0.100	<0.00100	103	84.4 - 118.6
Xylene	0.308	mg/L	1	0.300	<0.00290	103	84.8 - 117.8

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.102	mg/L	1	0.100	<0.00110	102	84 - 119.7	3	20
Toluene	0.102	mg/L	1	0.100	<0.00100	102	84.9 - 118.2	2	20
Ethylbenzene	0.100	mg/L	1	0.100	<0.00100	100	84.4 - 118.6	3	20
Xylene	0.299	mg/L	1	0.300	<0.00290	100	84.8 - 117.8	3	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.108	0.109	mg/L	1	0.100	108	109	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0831	0.0832	mg/L	1	0.100	83	83	67.7 - 126.3

Laboratory Control Spike (LCS-1)

QC Batch: 47097
Prep Batch: 40483

Date Analyzed: 2008-04-03
QC Preparation: 2008-04-02

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.103	mg/L	1	0.100	<0.00110	103	84 - 119.7
Toluene	0.103	mg/L	1	0.100	<0.00100	103	84.9 - 118.2
Ethylbenzene	0.102	mg/L	1	0.100	<0.00100	102	84.4 - 118.6
Xylene	0.303	mg/L	1	0.300	<0.00290	101	84.8 - 117.8

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.102	mg/L	1	0.100	<0.00110	102	84 - 119.7	1	20
Toluene	0.101	mg/L	1	0.100	<0.00100	101	84.9 - 118.2	2	20
Ethylbenzene	0.101	mg/L	1	0.100	<0.00100	101	84.4 - 118.6	1	20
Xylene	0.300	mg/L	1	0.300	<0.00290	100	84.8 - 117.8	1	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.107	0.108	mg/L	1	0.100	107	108	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0762	0.0781	mg/L	1	0.100	76	78	67.7 - 126.3

Matrix Spike (MS-1) Spiked Sample: 154971

QC Batch: 47018
Prep Batch: 40437

Date Analyzed: 2008-04-01
QC Preparation: 2008-04-01

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	3.81	mg/L	10	1.00	2.9973	81	77.5 - 121.1
Toluene	1.06	mg/L	10	1.00	0.0817	98	78.8 - 119.6
Ethylbenzene	1.00	mg/L	10	1.00	0.0283	97	77.9 - 120.5
Xylene	3.08	mg/L	10	3.00	0.1866	96	78.3 - 119.4

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	3.88	mg/L	10	1.00	2.9973	88	77.5 - 121.1	2	20
Toluene	1.10	mg/L	10	1.00	0.0817	102	78.8 - 119.6	4	20
Ethylbenzene	1.03	mg/L	10	1.00	0.0283	100	77.9 - 120.5	3	20
Xylene	3.18	mg/L	10	3.00	0.1866	100	78.3 - 119.4	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)	1.04	1.04	mg/L	10	1	104	104	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	0.791	0.796	mg/L	10	1	79	80	59.4 - 127.3

Matrix Spike (MS-1) Spiked Sample: 155047

QC Batch: 47068
Prep Batch: 40483

Date Analyzed: 2008-04-02
QC Preparation: 2008-04-02

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.80	mg/L	10	1.00	0.8348	96	77.5 - 121.1
Toluene	0.983	mg/L	10	1.00	<0.0100	98	78.8 - 119.6
Ethylbenzene	0.974	mg/L	10	1.00	<0.0100	97	77.9 - 120.5
Xylene	2.89	mg/L	10	3.00	<0.0290	96	78.3 - 119.4

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	1.70	mg/L	10	1.00	0.8348	86	77.5 - 121.1	6	20
Toluene	0.866	mg/L	10	1.00	<0.0100	87	78.8 - 119.6	13	20
Ethylbenzene	0.848	mg/L	10	1.00	<0.0100	85	77.9 - 120.5	14	20
Xylene	2.51	mg/L	10	3.00	<0.0290	84	78.3 - 119.4	14	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)	1.10	1.09	mg/L	10	1	110	109	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	0.787	0.783	mg/L	10	1	79	78	59.4 - 127.3

Matrix Spike (MS-1) Spiked Sample: 154975

QC Batch: 47097
Prep Batch: 40483

Date Analyzed: 2008-04-03
QC Preparation: 2008-04-02

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.09	mg/L	5	0.500	0.5975	98	77.5 - 121.1
Toluene	0.499	mg/L	5	0.500	<0.00500	100	78.8 - 119.6
Ethylbenzene	0.507	mg/L	5	0.500	0.0115	99	77.9 - 120.5
Xylene	1.48	mg/L	5	1.50	<0.0145	98	78.3 - 119.4

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	1.10	mg/L	5	0.500	0.5975	100	77.5 - 121.1	1	20
Toluene	0.508	mg/L	5	0.500	<0.00500	102	78.8 - 119.6	2	20
Ethylbenzene	0.518	mg/L	5	0.500	0.0115	101	77.9 - 120.5	2	20
Xylene	1.51	mg/L	5	1.50	<0.0145	100	78.3 - 119.4	2	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)	0.537	0.540	mg/L	5	0.5	107	108	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	0.373	0.372	mg/L	5	0.5	75	74	59.4 - 127.3

Standard (ICV-1)

QC Batch: 47018

Date Analyzed: 2008-04-01

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.100	100	85 - 115	2008-04-01
Toluene		mg/L	0.100	0.0996	100	85 - 115	2008-04-01
Ethylbenzene		mg/L	0.100	0.0982	98	85 - 115	2008-04-01
Xylene		mg/L	0.300	0.294	98	85 - 115	2008-04-01

Standard (CCV-1)

QC Batch: 47018

Date Analyzed: 2008-04-01

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.102	102	85 - 115	2008-04-01
Toluene		mg/L	0.100	0.101	101	85 - 115	2008-04-01
Ethylbenzene		mg/L	0.100	0.0981	98	85 - 115	2008-04-01
Xylene		mg/L	0.300	0.299	100	85 - 115	2008-04-01

Standard (ICV-1)

QC Batch: 47068

Date Analyzed: 2008-04-02

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.102	102	85 - 115	2008-04-02
Toluene		mg/L	0.100	0.101	101	85 - 115	2008-04-02
Ethylbenzene		mg/L	0.100	0.100	100	85 - 115	2008-04-02
Xylene		mg/L	0.300	0.299	100	85 - 115	2008-04-02

Standard (CCV-1)

QC Batch: 47068

Date Analyzed: 2008-04-02

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.104	104	85 - 115	2008-04-02
Toluene		mg/L	0.100	0.103	103	85 - 115	2008-04-02
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2008-04-02
Xylene		mg/L	0.300	0.304	101	85 - 115	2008-04-02

Standard (ICV-1)

QC Batch: 47097

Date Analyzed: 2008-04-03

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.107	107	85 - 115	2008-04-03
Toluene		mg/L	0.100	0.107	107	85 - 115	2008-04-03
Ethylbenzene		mg/L	0.100	0.106	106	85 - 115	2008-04-03
Xylene		mg/L	0.300	0.314	105	85 - 115	2008-04-03

Standard (CCV-1)

QC Batch: 47097

Date Analyzed: 2008-04-03

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.100	100	85 - 115	2008-04-03
Toluene		mg/L	0.100	0.0999	100	85 - 115	2008-04-03
Ethylbenzene		mg/L	0.100	0.0998	100	85 - 115	2008-04-03
Xylene		mg/L	0.300	0.296	99	85 - 115	2008-04-03

TraceAnalysis, Inc.

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LAB ID # 80322811

Page 1

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Invoice to:

(If different from above) PHAENS SRS# 2002-10373 Camille Reynolds

Project #:

PHAENS0085PL

Project Location (including state):

Hobbs, NM.

Project Name:

8th Marcello Jal #2

Sampler Signature:

ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ek(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCBs 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard

REMARKS:

All tests - Milland

LAB USE ONLY

Intact ☒ Y / N
Headspace ☒ Y / N
Temp 3.1
Log-in-Review

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

Carrier # 00000000 IN

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
154970	MW-4	2	VDA X	X					X			X		3/23/08	1241
154971	MW-8	2	VDA X	X					X			X		3/23/08	1250
154972	MW-10	2	VDA X	X					X			X		3/23/08	1332
154973	MW-11	2	VDA X	X					X			X		3/23/08	1500
154974	MW-12	2	VDA X	X					X			X		3/23/08	1621
154975	MW-13	2	VDA X	X					X			X		3/23/08	1246

Relinquished by: Date: Time: Received by: Date: Time:

Camille Chung 3-28-08 1005 Dawn Carney 3/28/08 1005

Relinquished by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Received at Laboratory by: Date: Time:

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

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E-Mail: lab@traceanalysis.com

NELAP Certifications

Lubbock T104704219-08-TX El Paso T104704221-08-TX Midland T104704392-08-TX

Analytical and Quality Control Report

Shanna Smith
Talon LPE-Amarillo
921 North Bivins
Amarillo, TX, 79107

Report Date: July 8, 2008

Work Order: 8063030



Project Location: Lea County, N.M.
Project Name: Moore to Jal #2
Project Number: Plains008SPL
SRS#: SRS#2002-10273

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
165262	MW-4	water	2008-06-30	13:00	2008-06-30
165263	MW-8	water	2008-06-30	13:29	2008-06-30
165264	MW-10	water	2008-06-30	13:12	2008-06-30
165265	MW-11	water	2008-06-30	13:06	2008-06-30
165266	MW-12	water	2008-06-30	13:16	2008-06-30
165267	MW-13	water	2008-06-30	13:20	2008-06-30

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

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

TraceAnalysis, Inc.

Blair Leftwich

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Moore to Jal #2 were received by TraceAnalysis, Inc. on 2008-06-30 and assigned to work order 8063030. Samples for work order 8063030 were received intact without headspace and at a temperature of 3.7 deg. C.

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

Test	Method
BTEX	S 8021B

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 8063030 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: July 8, 2008
Plains008SPL

Work Order: 8063030
Moore to Jal #2

Page Number: 4 of 10
Lea County, N.M.

Analytical Report

Sample: 165262 - MW-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 50001
Prep Batch: 42893

Analytical Method: S 8021B
Date Analyzed: 2008-07-04
Sample Preparation: 2008-07-03

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		24.3	mg/L	100	0.00100
Toluene		0.558	mg/L	100	0.00100
Ethylbenzene		1.02	mg/L	100	0.00100
Xylene		1.04	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.18	mg/L	100	10.0	92	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		9.02	mg/L	100	10.0	90	52 - 124.1

Sample: 165263 - MW-8

Laboratory: Midland
Analysis: BTEX
QC Batch: 50062
Prep Batch: 42969

Analytical Method: S 8021B
Date Analyzed: 2008-07-07
Sample Preparation: 2008-07-07

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		8.55	mg/L	50	0.00100
Toluene		1.12	mg/L	50	0.00100
Ethylbenzene		0.244	mg/L	50	0.00100
Xylene		0.687	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.53	mg/L	50	5.00	91	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		4.58	mg/L	50	5.00	92	52 - 124.1

Sample: 165264 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 50062
Prep Batch: 42969

Analytical Method: S 8021B
Date Analyzed: 2008-07-07
Sample Preparation: 2008-07-07

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

Report Date: July 8, 2008
Plains008SPL

Work Order: 8063030
Moore to Jal #2

Page Number: 5 of 10
Lea County, N.M.

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)		0.0919	mg/L	1	0.100	92	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0894	mg/L	1	0.100	89	52 - 124.1

Sample: 165265 - MW-11

Laboratory: Midland
Analysis: BTEX
QC Batch: 50001
Prep Batch: 42893

Analytical Method: S 8021B
Date Analyzed: 2008-07-04
Sample Preparation: 2008-07-03

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0915	mg/L	1	0.100	92	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0885	mg/L	1	0.100	88	52 - 124.1

Sample: 165266 - MW-12

Laboratory: Midland
Analysis: BTEX
QC Batch: 50001
Prep Batch: 42893

Analytical Method: S 8021B
Date Analyzed: 2008-07-04
Sample Preparation: 2008-07-03

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00780	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: July 8, 2008
Plains008SPL

Work Order: 8063030
Moore to Jal #2

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Lea County, N.M.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0899	mg/L	1	0.100	90	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0870	mg/L	1	0.100	87	52 - 124.1

Sample: 165267 - MW-13

Laboratory: Midland
Analysis: BTEX
QC Batch: 50001
Prep Batch: 42893

Analytical Method: S 8021B
Date Analyzed: 2008-07-04
Sample Preparation: 2008-07-03

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.191	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)		0.454	mg/L	5	0.500	91	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.440	mg/L	5	0.500	88	52 - 124.1

Method Blank (1) QC Batch: 50001

QC Batch: 50001
Prep Batch: 42893

Date Analyzed: 2008-07-04
QC Preparation: 2008-07-03

Analyzed By: DC
Prepared By: DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0905	mg/L	1	0.100	90	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0884	mg/L	1	0.100	88	37.1 - 130.9

Report Date: July 8, 2008
Plains008SPL

Work Order: 8063030
Moore to Jal #2

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Lea County, N.M.

Method Blank (1) QC Batch: 50062

QC Batch: 50062
Prep Batch: 42969

Date Analyzed: 2008-07-07
QC Preparation: 2008-07-07

Analyzed By: DC
Prepared By: DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0936	mg/L	1	0.100	94	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0921	mg/L	1	0.100	92	37.1 - 130.9

Laboratory Control Spike (LCS-1)

QC Batch: 50001
Prep Batch: 42893

Date Analyzed: 2008-07-04
QC Preparation: 2008-07-03

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.108	mg/L	1	0.100	<0.000200	108	71.7 - 120.5
Toluene	0.109	mg/L	1	0.100	<0.000200	109	75.4 - 118.8
Ethylbenzene	0.109	mg/L	1	0.100	<0.000200	109	73.5 - 118
Xylene	0.329	mg/L	1	0.300	<0.000300	110	72.9 - 118.2

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.106	mg/L	1	0.100	<0.000200	106	71.7 - 120.5	2	20
Toluene	0.106	mg/L	1	0.100	<0.000200	106	75.4 - 118.8	3	20
Ethylbenzene	0.107	mg/L	1	0.100	<0.000200	107	73.5 - 118	2	20
Xylene	0.322	mg/L	1	0.300	<0.000300	107	72.9 - 118.2	2	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0921	0.0920	mg/L	1	0.100	92	92	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0910	0.0906	mg/L	1	0.100	91	91	43.9 - 132.4

Report Date: July 8, 2008
Plains008SPL

Work Order: 8063030
Moore to Jal #2

Page Number: 8 of 10
Lea County, N.M.

Laboratory Control Spike (LCS-1)

QC Batch: 50062
Prep Batch: 42969

Date Analyzed: 2008-07-07
QC Preparation: 2008-07-07

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.102	mg/L	1	0.100	<0.000200	102	71.7 - 120.5
Toluene	0.103	mg/L	1	0.100	<0.000200	103	75.4 - 118.8
Ethylbenzene	0.104	mg/L	1	0.100	<0.000200	104	73.5 - 118
Xylene	0.309	mg/L	1	0.300	<0.000300	103	72.9 - 118.2

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.104	mg/L	1	0.100	<0.000200	104	71.7 - 120.5	2	20
Toluene	0.106	mg/L	1	0.100	<0.000200	106	75.4 - 118.8	3	20
Ethylbenzene	0.106	mg/L	1	0.100	<0.000200	106	73.5 - 118	2	20
Xylene	0.317	mg/L	1	0.300	<0.000300	106	72.9 - 118.2	3	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0919	0.0927	mg/L	1	0.100	92	93	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0902	0.0909	mg/L	1	0.100	90	91	43.9 - 132.4

Matrix Spike (MS-1) Spiked Sample: 165262

QC Batch: 50001
Prep Batch: 42893

Date Analyzed: 2008-07-04
QC Preparation: 2008-07-03

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	33.1	mg/L	100	10.0	24.3104	88	10 - 160.8
Toluene	10.3	mg/L	100	10.0	0.5576	97	10 - 160.7
Ethylbenzene	10.7	mg/L	100	10.0	1.0165	97	10 - 158.3
Xylene	30.2	mg/L	100	30.0	1.0361	97	10 - 158

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	32.0	mg/L	100	10.0	24.3104	77	10 - 160.8	3	20
Toluene	9.68	mg/L	100	10.0	0.5576	91	10 - 160.7	6	20
Ethylbenzene	10.1	mg/L	100	10.0	1.0165	91	10 - 158.3	6	20
Xylene	28.5	mg/L	100	30.0	1.0361	92	10 - 158	6	20

Report Date: July 8, 2008
Plains008SPL

Work Order: 8063030
Moore to Jal #2

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Lea County, N.M.

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	9.25	9.26	mg/L	100	10	92	93	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	9.19	9.09	mg/L	100	10	92	91	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 165630

QC Batch: 50062
Prep Batch: 42969

Date Analyzed: 2008-07-07
QC Preparation: 2008-07-07

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0726	mg/L	1	0.100	<0.000200	73	10 - 160.8
Toluene	0.0750	mg/L	1	0.100	<0.000200	75	10 - 160.7
Ethylbenzene	0.0760	mg/L	1	0.100	<0.000200	76	10 - 158.3
Xylene	0.228	mg/L	1	0.300	<0.000300	76	10 - 158

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	0.0693	mg/L	1	0.100	<0.000200	69	10 - 160.8	5	20
Toluene	0.0724	mg/L	1	0.100	<0.000200	72	10 - 160.7	4	20
Ethylbenzene	0.0736	mg/L	1	0.100	<0.000200	74	10 - 158.3	3	20
Xylene	0.221	mg/L	1	0.300	<0.000300	74	10 - 158	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)	0.0940	0.0899	mg/L	1	0.1	94	90	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	0.0928	0.0893	mg/L	1	0.1	93	89	37.5 - 136

Standard (ICV-1)

QC Batch: 50001

Date Analyzed: 2008-07-04

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.108	108	85 - 115	2008-07-04
Toluene		mg/L	0.100	0.109	109	85 - 115	2008-07-04
Ethylbenzene		mg/L	0.100	0.110	110	85 - 115	2008-07-04
Xylene		mg/L	0.300	0.330	110	85 - 115	2008-07-04

Report Date: July 8, 2008
Plains008SPL

Work Order: 8063030
Moore to Jal #2

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Lea County, N.M.

Standard (CCV-1)

QC Batch: 50001

Date Analyzed: 2008-07-04

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.107	107	85 - 115	2008-07-04
Toluene		mg/L	0.100	0.107	107	85 - 115	2008-07-04
Ethylbenzene		mg/L	0.100	0.108	108	85 - 115	2008-07-04
Xylene		mg/L	0.300	0.323	108	85 - 115	2008-07-04

Standard (ICV-1)

QC Batch: 50062

Date Analyzed: 2008-07-07

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.107	107	85 - 115	2008-07-07
Toluene		mg/L	0.100	0.109	109	85 - 115	2008-07-07
Ethylbenzene		mg/L	0.100	0.109	109	85 - 115	2008-07-07
Xylene		mg/L	0.300	0.327	109	85 - 115	2008-07-07

Standard (CCV-1)

QC Batch: 50062

Date Analyzed: 2008-07-07

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.101	101	85 - 115	2008-07-07
Toluene		mg/L	0.100	0.103	103	85 - 115	2008-07-07
Ethylbenzene		mg/L	0.100	0.103	103	85 - 115	2008-07-07
Xylene		mg/L	0.300	0.308	103	85 - 115	2008-07-07

TRACE ANALYSIS, INC.

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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

Shanna Smith
Talon LPE-Midland
2901 State Highway 349
Midland, TX, 79706

Report Date: September 30, 2008

Work Order: 8091942



Project Location: Lea County, NM
Project Name: Moore to Jal #2
Project Number: Plains008SPL
SRS #: 2002-10273

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
174067	MW-10	water	2008-09-19	13:40	2008-09-19
174068	MW-11	water	2008-09-19	13:50	2008-09-19
174069	MW-12	water	2008-09-19	13:15	2008-09-19
174070	MW-4	water	2008-09-19	11:27	2008-09-19
174071	MW-13	water	2008-09-19	13:30	2008-09-19

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
174072	MW-8	water	2008-09-19	11:35	2008-09-19

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



Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Moore to Jal #2 were received by TraceAnalysis, Inc. on 2008-09-19 and assigned to work order 8091942. Samples for work order 8091942 were received intact without headspace and at a temperature of 3.6 deg. C.

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

Test	Method
BTEX	S 8021B
PAH	S 8270C

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 8091942 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: September 30, 2008
Plains008SPL

Work Order: 8091942
Moore to Jal #2

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Analytical Report

Sample: 174067 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 52600
Prep Batch: 45094

Analytical Method: S 8021B
Date Analyzed: 2008-09-22
Sample Preparation: 2008-09-22

Prep Method: S 5030B
Analyzed By: DC
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		0.00220	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0905	mg/L	1	0.100	90	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0910	mg/L	1	0.100	91	52 - 124.1

Sample: 174067 - MW-10

Laboratory: Lubbock
Analysis: PAH
QC Batch: 52820
Prep Batch: 45266

Analytical Method: S 8270C
Date Analyzed: 2008-09-26
Sample Preparation: 2008-09-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	1	0.000200
2-Methylnaphthalene		<0.000200	mg/L	1	0.000200
1-Methylnaphthalene		<0.000200	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		<0.000200	mg/L	1	0.000200
Fluorene		<0.000200	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		<0.000200	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200

continued ...

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Moore to Jal #2

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sample 174067 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0644	mg/L	1	0.0800	80	37.4 - 123
2-Fluorobiphenyl		0.0642	mg/L	1	0.0800	80	34.3 - 130
Terphenyl-d14		0.0687	mg/L	1	0.0800	86	10 - 252

Sample: 174068 - MW-11

Laboratory: Midland
Analysis: BTEX
QC Batch: 52600
Prep Batch: 45094

Analytical Method: S 8021B
Date Analyzed: 2008-09-22
Sample Preparation: 2008-09-22

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0171	mg/L	1	0.00100
Toluene		0.00310	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)		0.0926	mg/L	1	0.100	93	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0932	mg/L	1	0.100	93	52 - 124.1

Sample: 174068 - MW-11

Laboratory: Lubbock
Analysis: PAH
QC Batch: 52820
Prep Batch: 45266

Analytical Method: S 8270C
Date Analyzed: 2008-09-26
Sample Preparation: 2008-09-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	1	0.000200
2-Methylnaphthalene		<0.000200	mg/L	1	0.000200
1-Methylnaphthalene		<0.000200	mg/L	1	0.000200

continued ...

sample 174068 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		<0.000200	mg/L	1	0.000200
Fluorene		<0.000200	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		<0.000200	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0607	mg/L	1	0.0800	76	37.4 - 123
2-Fluorobiphenyl		0.0589	mg/L	1	0.0800	74	34.3 - 130
Terphenyl-d14		0.0688	mg/L	1	0.0800	86	10 - 252

Sample: 174069 - MW-12

Laboratory: Midland
Analysis: BTEX
QC Batch: 52600
Prep Batch: 45094

Analytical Method: S 8021B
Date Analyzed: 2008-09-22
Sample Preparation: 2008-09-22

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0151	mg/L	1	0.00100
Toluene		0.00140	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0890	mg/L	1	0.100	89	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0895	mg/L	1	0.100	90	52 - 124.1

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Sample: 174069 - MW-12

Laboratory: Lubbock

Analysis: PAH

QC Batch: 52820

Prep Batch: 45266

Analytical Method: S 8270C

Date Analyzed: 2008-09-26

Sample Preparation: 2008-09-25

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	1	0.000200
2-Methylnaphthalene		<0.000200	mg/L	1	0.000200
1-Methylnaphthalene		<0.000200	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		<0.000200	mg/L	1	0.000200
Fluorene		<0.000200	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		<0.000200	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0600	mg/L	1	0.0800	75	37.4 - 123
2-Fluorobiphenyl		0.0618	mg/L	1	0.0800	77	34.3 - 130
Terphenyl-d14		0.0695	mg/L	1	0.0800	87	10 - 252

Sample: 174070 - MW-4

Laboratory: Midland

Analysis: BTEX

QC Batch: 52600

Prep Batch: 45094

Analytical Method: S 8021B

Date Analyzed: 2008-09-22

Sample Preparation: 2008-09-22

Prep Method: S 5030B

Analyzed By: DC

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		26.4	mg/L	100	0.00100
Toluene		2.91	mg/L	100	0.00100

continued ...

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sample 174070 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		1.21	mg/L	100	0.00100
Xylene		1.39	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.29	mg/L	100	10.0	93	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		9.42	mg/L	100	10.0	94	52 - 124.1

Sample: 174070 - MW-4

Laboratory: Lubbock
Analysis: PAH
QC Batch: 52820
Prep Batch: 45266

Analytical Method: S 8270C
Date Analyzed: 2008-09-26
Sample Preparation: 2008-09-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0675	mg/L	1	0.000200
2-Methylnaphthalene		0.0351	mg/L	1	0.000200
1-Methylnaphthalene		0.0355	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.00266	mg/L	1	0.000200
Fluorene		0.00335	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.00108	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0646	mg/L	1	0.0800	81	37.4 - 123
2-Fluorobiphenyl		0.0581	mg/L	1	0.0800	73	34.3 - 130
Terphenyl-d14		0.0678	mg/L	1	0.0800	85	10 - 252

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Sample: 174071 - MW-13

Laboratory: Midland
Analysis: BTEX
QC Batch: 52654
Prep Batch: 45121

Analytical Method: S 8021B
Date Analyzed: 2008-09-23
Sample Preparation: 2008-09-23

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		2.82	mg/L	10	0.00100
Toluene		<0.0100	mg/L	10	0.00100
Ethylbenzene		0.0575	mg/L	10	0.00100
Xylene		0.0890	mg/L	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.902	mg/L	10	1.00	90	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.921	mg/L	10	1.00	92	52 - 124.1

Sample: 174071 - MW-13

Laboratory: Lubbock
Analysis: PAH
QC Batch: 52820
Prep Batch: 45266

Analytical Method: S 8270C
Date Analyzed: 2008-09-26
Sample Preparation: 2008-09-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000200	mg/L	1	0.000200
2-Methylnaphthalene		<0.000200	mg/L	1	0.000200
1-Methylnaphthalene		<0.000200	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		<0.000200	mg/L	1	0.000200
Fluorene		<0.000200	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		<0.000200	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200

continued ...

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sample 174071 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0603	mg/L	1	0.0800	75	37.4 - 123
2-Fluorobiphenyl		0.0607	mg/L	1	0.0800	76	34.3 - 130
Terphenyl-d14		0.0644	mg/L	1	0.0800	80	10 - 252

Sample: 174072 - MW-8

Laboratory: Midland
Analysis: BTEX
QC Batch: 52600
Prep Batch: 45094

Analytical Method: S 8021B
Date Analyzed: 2008-09-22
Sample Preparation: 2008-09-22

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		5.86	mg/L	50	0.00100
Toluene		0.0798	mg/L	50	0.00100
Ethylbenzene		<0.0500	mg/L	50	0.00100
Xylene		0.304	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.61	mg/L	50	5.00	92	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		4.63	mg/L	50	5.00	93	52 - 124.1

Sample: 174072 - MW-8

Laboratory: Lubbock
Analysis: PAH
QC Batch: 52820
Prep Batch: 45266

Analytical Method: S 8270C
Date Analyzed: 2008-09-26
Sample Preparation: 2008-09-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.000405	mg/L	1	0.000200
2-Methylnaphthalene		0.000297	mg/L	1	0.000200
1-Methylnaphthalene		0.00204	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200

continued ...

sample 174072 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibenzofuran		0.000203	mg/L	1	0.000200
Fluorene		<0.000200	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		<0.000200	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0618	mg/L	1	0.0800	77	37.4 - 123
2-Fluorobiphenyl		0.0609	mg/L	1	0.0800	76	34.3 - 130
Terphenyl-d14		0.0641	mg/L	1	0.0800	80	10 - 252

Method Blank (1) QC Batch: 52600

QC Batch: 52600
Prep Batch: 45094

Date Analyzed: 2008-09-22
QC Preparation: 2008-09-22

Analyzed By: DC
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000500	mg/L	0.001
Toluene		<0.000700	mg/L	0.001
Ethylbenzene		<0.000700	mg/L	0.001
Xylene		<0.00180	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0985	mg/L	1	0.100	98	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0973	mg/L	1	0.100	97	37.1 - 130.9

Method Blank (1) QC Batch: 52654

QC Batch: 52654
Prep Batch: 45121

Date Analyzed: 2008-09-23
QC Preparation: 2008-09-23

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000500	mg/L	0.001
Toluene		<0.000700	mg/L	0.001
Ethylbenzene		<0.000700	mg/L	0.001
Xylene		<0.00180	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0885	mg/L	1	0.100	88	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0898	mg/L	1	0.100	90	37.1 - 130.9

Method Blank (1) QC Batch: 52820

QC Batch: 52820
Prep Batch: 45266

Date Analyzed: 2008-09-26
QC Preparation: 2008-09-25

Analyzed By: DS
Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000730	mg/L	0.0002
2-Methylnaphthalene		<0.0000509	mg/L	0.0002
1-Methylnaphthalene		<0.0000748	mg/L	0.0002
Acenaphthylene		<0.0000767	mg/L	0.0002
Acenaphthene		<0.000142	mg/L	0.0002
Dibenzofuran		<0.0000470	mg/L	0.0002
Fluorene		<0.0000569	mg/L	0.0002
Anthracene		<0.0000876	mg/L	0.0002
Phenanthrene		<0.0000552	mg/L	0.0002
Fluoranthene		<0.0000954	mg/L	0.0002
Pyrene		<0.0000497	mg/L	0.0002
Benzo(a)anthracene		<0.0000328	mg/L	0.0002
Chrysene		<0.0000990	mg/L	0.0002
Benzo(b)fluoranthene		<0.0000684	mg/L	0.0002
Benzo(k)fluoranthene		<0.0000830	mg/L	0.0002
Benzo(a)pyrene		<0.0000549	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000869	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000605	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000681	mg/L	0.0002

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0563	mg/L	1	0.0800	70	10 - 146
2-Fluorobiphenyl		0.0516	mg/L	1	0.0800	64	10 - 141
Terphenyl-d14		0.0654	mg/L	1	0.0800	82	10 - 266

Laboratory Control Spike (LCS-1)

QC Batch: 52600
Prep Batch: 45094

Date Analyzed: 2008-09-22
QC Preparation: 2008-09-22

Analyzed By: DC
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0980	mg/L	1	0.100	<0.000500	98	71.7 - 120.5
Toluene	0.0976	mg/L	1	0.100	<0.000700	98	75.4 - 118.8
Ethylbenzene	0.0970	mg/L	1	0.100	<0.000700	97	73.5 - 118
Xylene	0.293	mg/L	1	0.300	<0.00180	98	72.9 - 118.2

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	0.100	mg/L	1	0.100	<0.000500	100	71.7 - 120.5	2	20
Toluene	0.0996	mg/L	1	0.100	<0.000700	100	75.4 - 118.8	2	20
Ethylbenzene	0.100	mg/L	1	0.100	<0.000700	100	73.5 - 118	3	20
Xylene	0.302	mg/L	1	0.300	<0.00180	100	72.9 - 118.2	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)	0.0898	0.0900	mg/L	1	0.100	90	90	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0913	0.0921	mg/L	1	0.100	91	92	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 52654
Prep Batch: 45121

Date Analyzed: 2008-09-23
QC Preparation: 2008-09-23

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0959	mg/L	1	0.100	<0.000500	96	71.7 - 120.5
Toluene	0.0966	mg/L	1	0.100	<0.000700	97	75.4 - 118.8
Ethylbenzene	0.0958	mg/L	1	0.100	<0.000700	96	73.5 - 118
Xylene	0.289	mg/L	1	0.300	<0.00180	96	72.9 - 118.2

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	0.0936	mg/L	1	0.100	<0.000500	94	71.7 - 120.5	2	20
Toluene	0.0934	mg/L	1	0.100	<0.000700	93	75.4 - 118.8	3	20
Ethylbenzene	0.0937	mg/L	1	0.100	<0.000700	94	73.5 - 118	2	20
Xylene	0.283	mg/L	1	0.300	<0.00180	94	72.9 - 118.2	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)	0.0899	0.0907	mg/L	1	0.100	90	91	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0939	0.0938	mg/L	1	0.100	94	94	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 52820
Prep Batch: 45266

Date Analyzed: 2008-09-26
QC Preparation: 2008-09-25

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0446	mg/L	1	0.0800	<0.0000730	56	10 - 141
2-Methylnaphthalene	0.0477	mg/L	1	0.0800	<0.0000509	60	50 - 150
1-Methylnaphthalene	0.0471	mg/L	1	0.0800	<0.0000748	59	50 - 150
Acenaphthylene	0.0575	mg/L	1	0.0800	<0.0000767	72	10 - 152
Acenaphthene	0.0547	mg/L	1	0.0800	<0.000142	68	10 - 151
Dibenzofuran	0.0569	mg/L	1	0.0800	<0.0000470	71	10 - 148
Fluorene	0.0633	mg/L	1	0.0800	<0.0000569	79	10 - 172
Anthracene	0.0558	mg/L	1	0.0800	<0.0000876	70	22.5 - 172
Phenanthrene	0.0556	mg/L	1	0.0800	<0.0000552	70	19.6 - 172
Fluoranthene	0.0616	mg/L	1	0.0800	<0.0000954	77	17.3 - 187
Pyrene	0.0600	mg/L	1	0.0800	<0.0000497	75	14.9 - 199
Benzo(a)anthracene	0.0581	mg/L	1	0.0800	<0.0000328	73	19.4 - 185
Chrysene	0.0608	mg/L	1	0.0800	<0.0000990	76	18.4 - 188
Benzo(b)fluoranthene	0.0594	mg/L	1	0.0800	<0.0000684	74	10 - 193
Benzo(k)fluoranthene	0.0611	mg/L	1	0.0800	<0.0000830	76	27.8 - 196
Benzo(a)pyrene	0.0668	mg/L	1	0.0800	<0.0000549	84	12.4 - 205
Indeno(1,2,3-cd)pyrene	0.0702	mg/L	1	0.0800	<0.0000869	88	10 - 198
Dibenzo(a,h)anthracene	0.0696	mg/L	1	0.0800	<0.0000605	87	10 - 172
Benzo(g,h,i)perylene	0.0689	mg/L	1	0.0800	<0.0000681	86	10 - 186

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
Naphthalene	0.0454	mg/L	1	0.0800	<0.0000730	57	10 - 141	2	20
2-Methylnaphthalene	0.0473	mg/L	1	0.0800	<0.0000509	59	50 - 150	1	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1-Methylnaphthalene	0.0472	mg/L	1	0.0800	<0.0000748	59	50 - 150	0	20
Acenaphthylene	0.0577	mg/L	1	0.0800	<0.0000767	72	10 - 152	0	20
Acenaphthene	0.0560	mg/L	1	0.0800	<0.000142	70	10 - 151	2	20
Dibenzofuran	0.0584	mg/L	1	0.0800	<0.0000470	73	10 - 148	3	20
Fluorene	0.0670	mg/L	1	0.0800	<0.0000569	84	10 - 172	6	20
Anthracene	0.0568	mg/L	1	0.0800	<0.0000876	71	22.5 - 172	2	20
Phenanthrene	0.0574	mg/L	1	0.0800	<0.0000552	72	19.6 - 172	3	20
Fluoranthene	0.0601	mg/L	1	0.0800	<0.0000954	75	17.3 - 187	2	20
Pyrene	0.0624	mg/L	1	0.0800	<0.0000497	78	14.9 - 199	4	20
Benzo(a)anthracene	0.0587	mg/L	1	0.0800	<0.0000328	73	19.4 - 185	1	20
Chrysene	0.0619	mg/L	1	0.0800	<0.0000990	77	18.4 - 188	2	20
Benzo(b)fluoranthene	0.0601	mg/L	1	0.0800	<0.0000684	75	10 - 193	1	20
Benzo(k)fluoranthene	0.0621	mg/L	1	0.0800	<0.0000830	78	27.8 - 196	2	20
Benzo(a)pyrene	0.0678	mg/L	1	0.0800	<0.0000549	85	12.4 - 205	2	20
Indeno(1,2,3-cd)pyrene	0.0726	mg/L	1	0.0800	<0.0000869	91	10 - 198	3	20
Dibenzo(a,h)anthracene	0.0721	mg/L	1	0.0800	<0.0000605	90	10 - 172	4	20
Benzo(g,h,i)perylene	0.0718	mg/L	1	0.0800	<0.0000681	90	10 - 186	4	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
Nitrobenzene-d5	0.0574	0.0589	mg/L	1	0.0800	72	74	10 - 165
2-Fluorobiphenyl	0.0530	0.0524	mg/L	1	0.0800	66	66	10 - 157
Terphenyl-d14	0.0684	0.0707	mg/L	1	0.0800	86	88	10 - 220

Matrix Spike (MS-1) Spiked Sample: 173893

QC Batch: 52600
Prep Batch: 45094

Date Analyzed: 2008-09-22
QC Preparation: 2008-09-22

Analyzed By: DC
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	10.7	mg/L	50	5.00	6.2921	88	10 - 160.8
Toluene	7.78	mg/L	50	5.00	3.2111	91	10 - 160.7
Ethylbenzene	5.29	mg/L	50	5.00	0.5921	94	10 - 158.3
Xylene	15.4	mg/L	50	15.0	1.2802	94	10 - 158

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	11.0	mg/L	50	5.00	6.2921	94	10 - 160.8	3	20
Toluene	8.08	mg/L	50	5.00	3.2111	97	10 - 160.7	4	20

continued ...

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene	5.60	mg/L	50	5.00	0.5921	100	10 - 158.3	6	20
Xylene	16.4	mg/L	50	15.0	1.2802	101	10 - 158	6	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)	4.46	4.59	mg/L	50	5	89	92	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	4.65	4.74	mg/L	50	5	93	95	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 174071

QC Batch: 52654
Prep Batch: 45121

Date Analyzed: 2008-09-23
QC Preparation: 2008-09-23

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	3.30	mg/L	10	1.00	2.815	48	10 - 160.8
Toluene	0.900	mg/L	10	1.00	<0.00700	90	10 - 160.7
Ethylbenzene	0.946	mg/L	10	1.00	0.0575	89	10 - 158.3
Xylene	2.79	mg/L	10	3.00	0.089	90	10 - 158

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	3.57	mg/L	10	1.00	2.815	76	10 - 160.8	8	20
Toluene	1.00	mg/L	10	1.00	<0.00700	100	10 - 160.7	10	20
Ethylbenzene	1.06	mg/L	10	1.00	0.0575	100	10 - 158.3	11	20
Xylene	3.13	mg/L	10	3.00	0.089	101	10 - 158	12	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)	0.872	0.922	mg/L	10	1	87	92	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	0.904	0.958	mg/L	10	1	90	96	37.5 - 136

Standard (ICV-1)

QC Batch: 52600

Date Analyzed: 2008-09-22

Analyzed By: DC

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Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.112	112	85 - 115	2008-09-22
Toluene		mg/L	0.100	0.112	112	85 - 115	2008-09-22
Ethylbenzene		mg/L	0.100	0.109	109	85 - 115	2008-09-22
Xylene		mg/L	0.300	0.330	110	85 - 115	2008-09-22

Standard (CCV-1)

QC Batch: 52600

Date Analyzed: 2008-09-22

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.111	111	85 - 115	2008-09-22
Toluene		mg/L	0.100	0.107	107	85 - 115	2008-09-22
Ethylbenzene		mg/L	0.100	0.103	103	85 - 115	2008-09-22
Xylene		mg/L	0.300	0.308	103	85 - 115	2008-09-22

Standard (ICV-1)

QC Batch: 52654

Date Analyzed: 2008-09-23

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.110	110	85 - 115	2008-09-23
Toluene		mg/L	0.100	0.110	110	85 - 115	2008-09-23
Ethylbenzene		mg/L	0.100	0.108	108	85 - 115	2008-09-23
Xylene		mg/L	0.300	0.328	109	85 - 115	2008-09-23

Standard (CCV-1)

QC Batch: 52654

Date Analyzed: 2008-09-23

Analyzed By: DC

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	85 - 115	2008-09-23
Toluene		mg/L	0.100	0.0919	92	85 - 115	2008-09-23
Ethylbenzene		mg/L	0.100	0.0913	91	85 - 115	2008-09-23
Xylene		mg/L	0.300	0.274	92	85 - 115	2008-09-23

Standard (CCV-1)

QC Batch: 52820

Date Analyzed: 2008-09-26

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	56.6	94	80 - 120	2008-09-26
2-Methylnaphthalene		mg/L	60.0	52.3	87	80 - 120	2008-09-26
1-Methylnaphthalene		mg/L	60.0	52.7	88	80 - 120	2008-09-26
Acenaphthylene		mg/L	60.0	58.4	97	80 - 120	2008-09-26
Acenaphthene		mg/L	60.0	58.1	97	80 - 120	2008-09-26
Dibenzofuran		mg/L	60.0	61.9	103	80 - 120	2008-09-26
Fluorene		mg/L	60.0	69.6	116	80 - 120	2008-09-26
Anthracene		mg/L	60.0	58.3	97	80 - 120	2008-09-26
Phenanthrene		mg/L	60.0	56.4	94	80 - 120	2008-09-26
Fluoranthene		mg/L	60.0	57.4	96	80 - 120	2008-09-26
Pyrene		mg/L	60.0	59.2	99	80 - 120	2008-09-26
Benzo(a)anthracene		mg/L	60.0	55.6	93	80 - 120	2008-09-26
Chrysene		mg/L	60.0	57.3	96	80 - 120	2008-09-26
Benzo(b)fluoranthene		mg/L	60.0	60.3	100	80 - 120	2008-09-26
Benzo(k)fluoranthene		mg/L	60.0	60.3	100	80 - 120	2008-09-26
Benzo(a)pyrene		mg/L	60.0	64.1	107	80 - 120	2008-09-26
Indeno(1,2,3-cd)pyrene		mg/L	60.0	68.7	114	80 - 120	2008-09-26
Dibenzo(a,h)anthracene		mg/L	60.0	68.7	114	80 - 120	2008-09-26
Benzo(g,h,i)perylene		mg/L	60.0	66.6	111	80 - 120	2008-09-26

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		60.4	mg/L	1	60.0	101	80 - 120
2-Fluorobiphenyl		53.2	mg/L	1	60.0	89	80 - 120
Terphenyl-d14		58.9	mg/L	1	60.0	98	80 - 120

Standard (CCV-2)

QC Batch: 52820

Date Analyzed: 2008-09-26

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	57.2	95	80 - 120	2008-09-26
2-Methylnaphthalene		mg/L	60.0	53.5	89	80 - 120	2008-09-26
1-Methylnaphthalene		mg/L	60.0	54.3	90	80 - 120	2008-09-26
Acenaphthylene		mg/L	60.0	58.8	98	80 - 120	2008-09-26
Acenaphthene		mg/L	60.0	57.7	96	80 - 120	2008-09-26
Dibenzofuran		mg/L	60.0	62.2	104	80 - 120	2008-09-26
Fluorene		mg/L	60.0	69.0	115	80 - 120	2008-09-26

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Anthracene		mg/L	60.0	59.2	99	80 - 120	2008-09-26
Phenanthrene		mg/L	60.0	56.5	94	80 - 120	2008-09-26
Fluoranthene		mg/L	60.0	57.4	96	80 - 120	2008-09-26
Pyrene		mg/L	60.0	58.0	97	80 - 120	2008-09-26
Benzo(a)anthracene		mg/L	60.0	56.0	93	80 - 120	2008-09-26
Chrysene		mg/L	60.0	57.8	96	80 - 120	2008-09-26
Benzo(b)fluoranthene		mg/L	60.0	60.8	101	80 - 120	2008-09-26
Benzo(k)fluoranthene		mg/L	60.0	59.4	99	80 - 120	2008-09-26
Benzo(a)pyrene		mg/L	60.0	63.8	106	80 - 120	2008-09-26
Indeno(1,2,3-cd)pyrene		mg/L	60.0	69.4	116	80 - 120	2008-09-26
Dibenzo(a,h)anthracene		mg/L	60.0	70.0	117	80 - 120	2008-09-26
Benzo(g,h,i)perylene		mg/L	60.0	67.7	113	80 - 120	2008-09-26

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		59.3	mg/L	1	60.0	99	80 - 120
2-Fluorobiphenyl		53.6	mg/L	1	60.0	89	80 - 120
Terphenyl-d14		58.0	mg/L	1	60.0	97	80 - 120

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200 East Sunset Rd., Suite E
El Paso, Texas 79922
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8808 Camp Bowie Blvd. West, Suite 180
Ft Worth, Texas 76116
Tel (817) 201-5260
Fax (817) 560-4336

Company Name: Talon LPE Phone #: (432) 522-2133
Address: 2901 S.H. 349 Midland TX 79706 Fax #: (432) 522-2180
Contact Person: Sheena Smith, Camille Bryant E-mail: SSmith@TalonLPE.com
Invoice to: SRSH-2002-10273
(If different from above)
Project #: Plains 008502 Project Name: Moore to JEL #2
Project Location (including state): Hobbs, NM Sampler Signature: _____

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME	
0407	MW-10	4	100%	X				X				X			9/19	1340
0408	MW-11	1	100%	X				X				X				1350
0409	MW-12	3	100%	X				X				X				1315
0410	MW-4	1	100%	X				X				X				1127
0411	MW-13	1	100%	X				X				X				1330
0412	MW-8	1	100%	X				X				X				1135

Relinquished by: _____ Company: _____ Date: _____ Time: _____
Received by: Sheena Smith Company: Talon LPE Date: 9/19/06 Time: 16:40 Temp: 3.6°C

Relinquished by: _____ Company: _____ Date: _____ Time: _____
Received by: _____ Company: _____ Date: _____ Time: _____ Temp: _____

LAB USE ONLY	REMARKS:
LABORATORY ONLY	BTX - Midland
LABORATORY ONLY	PAH - Lubbock
LABORATORY ONLY	☐ Dry Weight Basis Required
LABORATORY ONLY	☐ TRRP Report Required
LABORATORY ONLY	☐ Check If Special Reporting Limits Are Needed

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

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Carrier # Long



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

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

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

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Shanna Smith
Talon LPE-Midland
2901 State Highway 349
Midland, TX, 79706

Report Date: September 30, 2008

Work Order: 8092206



Project Location: Lea County, NM
Project Name: Moore to Jal #2
Project Number: Plains008SPL
SRS #: 2002-10273

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
174085	MW-1	water	2008-09-20	17:10	2008-09-22
174086	MW-2	water	2008-09-20	16:35	2008-09-22
174087	MW-3	water	2008-09-20	18:50	2008-09-22
174088	MW-5	water	2008-09-20	17:50	2008-09-22
174089	MW-6	water	2008-09-20	18:15	2008-09-22

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
174090	MW-7	water	2008-09-20	17:30	2008-09-22
174091	MW-9	water	2008-09-20	19:05	2008-09-22

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



Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Moore to Jal #2 were received by TraceAnalysis, Inc. on 2008-09-22 and assigned to work order 8092206. Samples for work order 8092206 were received intact without headspace and at a temperature of 2.1 deg. C.

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

Test	Method
BTEX	S 8021B
PAH	S 8270C
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

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 8092206 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: 174085 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 52654
Prep Batch: 45121

Analytical Method: S 8021B
Date Analyzed: 2008-09-23
Sample Preparation: 2008-09-23

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		16.8	mg/L	100	0.00100
Toluene		3.45	mg/L	100	0.00100
Ethylbenzene		1.15	mg/L	100	0.00100
Xylene		2.04	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.16	mg/L	100	10.0	92	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		9.40	mg/L	100	10.0	94	52 - 124.1

Sample: 174085 - MW-1

Laboratory: Lubbock
Analysis: PAH
QC Batch: 52820
Prep Batch: 45266

Analytical Method: S 8270C
Date Analyzed: 2008-09-26
Sample Preparation: 2008-09-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0932	mg/L	1	0.000200
2-Methylnaphthalene	¹	0.184	mg/L	1	0.000200
1-Methylnaphthalene	²	0.161	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.0157	mg/L	1	0.000200
Fluorene		0.0220	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.0271	mg/L	1	0.000200
Fluoranthene		0.000891	mg/L	1	0.000200
Pyrene		0.00158	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		0.00384	mg/L	1	0.000200
Benzo(b)fluoranthene		0.000394	mg/L	1	0.000200

continued ...

¹Estimated concentration value greater than standard range.

²Estimated concentration value greater than standard range.

sample 174085 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0421	mg/L	1	0.0800	53	37.4 - 123
2-Fluorobiphenyl		0.0362	mg/L	1	0.0800	45	34.3 - 130
Terphenyl-d14		0.0502	mg/L	1	0.0800	63	10 - 252

Sample: 174085 - MW-1

Laboratory: Midland	Analytical Method: Mod. 8015B	Prep Method: N/A
Analysis: TPH DRO	Date Analyzed: 2008-09-26	Analyzed By: LD
QC Batch: 52748	Sample Preparation: 2008-09-26	Prepared By: LD
Prep Batch: 45205		

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		5.30	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	³	13.4	mg/L	1	10.0	134	70 - 130

Sample: 174085 - MW-1

Laboratory: Midland	Analytical Method: S 8015B	Prep Method: S 5030B
Analysis: TPH GRO	Date Analyzed: 2008-09-22	Analyzed By: DC
QC Batch: 52618	Sample Preparation: 2008-09-22	Prepared By: AG
Prep Batch: 45094		

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		54.5	mg/L	20	0.100

³High surrogate recovery. Sample non-detect, result bias high.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.86	mg/L	20	2.00	93	70 - 130
4-Bromofluorobenzene (4-BFB)		1.97	mg/L	20	2.00	98	70 - 130

Sample: 174086 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 52654
Prep Batch: 45121

Analytical Method: S 8021B
Date Analyzed: 2008-09-23
Sample Preparation: 2008-09-23

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		4.67	mg/L	20	0.00100
Toluene		3.42	mg/L	20	0.00100
Ethylbenzene		0.470	mg/L	20	0.00100
Xylene		1.16	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.75	mg/L	20	2.00	88	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		1.83	mg/L	20	2.00	92	52 - 124.1

Sample: 174086 - MW-2

Laboratory: Lubbock
Analysis: PAH
QC Batch: 52820
Prep Batch: 45266

Analytical Method: S 8270C
Date Analyzed: 2008-09-26
Sample Preparation: 2008-09-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0747	mg/L	1	0.000200
2-Methylnaphthalene	⁴	0.213	mg/L	1	0.000200
1-Methylnaphthalene	⁵	0.185	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.0141	mg/L	1	0.000200
Fluorene		0.0210	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.0253	mg/L	1	0.000200
Fluoranthene		0.00104	mg/L	1	0.000200

continued ...

⁴Estimated concentration value greater than standard range.

⁵Estimated concentration value greater than standard range.

sample 174086 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Pyrene		0.00288	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		0.00782	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0449	mg/L	1	0.0800	56	37.4 - 123
2-Fluorobiphenyl		0.0329	mg/L	1	0.0800	41	34.3 - 130
Terphenyl-d14		0.0774	mg/L	1	0.0800	97	10 - 252

Sample: 174086 - MW-2

Laboratory: Midland	Analytical Method: Mod. 8015B	Prep Method: N/A
Analysis: TPH DRO	Date Analyzed: 2008-09-26	Analyzed By: LD
QC Batch: 52748	Sample Preparation: 2008-09-26	Prepared By: LD
Prep Batch: 45205		

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		7.08	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		12.6	mg/L	1	10.0	126	70 - 130

Sample: 174086 - MW-2

Laboratory: Midland	Analytical Method: S 8015B	Prep Method: S 5030B
Analysis: TPH GRO	Date Analyzed: 2008-09-22	Analyzed By: DC
QC Batch: 52618	Sample Preparation: 2008-09-22	Prepared By: AG
Prep Batch: 45094		

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		25.9	mg/L	5	0.100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.447	mg/L	5	0.500	89	70 - 130
4-Bromofluorobenzene (4-BFB)		0.507	mg/L	5	0.500	101	70 - 130

Sample: 174087 - MW-3

Laboratory: Midland

Analysis: BTEX

QC Batch: 52600

Prep Batch: 45094

Analytical Method: S 8021B

Date Analyzed: 2008-09-22

Sample Preparation: 2008-09-22

Prep Method: S 5030B

Analyzed By: DC

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		23.4	mg/L	100	0.00100
Toluene		11.7	mg/L	100	0.00100
Ethylbenzene		1.74	mg/L	100	0.00100
Xylene		4.13	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.16	mg/L	100	10.0	92	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		9.42	mg/L	100	10.0	94	52 - 124.1

Sample: 174087 - MW-3

Laboratory: Lubbock

Analysis: PAH

QC Batch: 52820

Prep Batch: 45266

Analytical Method: S 8270C

Date Analyzed: 2008-09-26

Sample Preparation: 2008-09-25

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene	⁶	0.430	mg/L	1	0.000200
2-Methylnaphthalene	⁷	0.872	mg/L	1	0.000200
1-Methylnaphthalene	⁸	0.807	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.0290	mg/L	1	0.000200
Fluorene		0.0377	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.0445	mg/L	1	0.000200

continued ...

⁶Estimated concentration value greater than standard range.

⁷Estimated concentration value greater than standard range.

⁸Estimated concentration value greater than standard range.

sample 174087 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoranthene		0.00121	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	⁹	0.102	mg/L	1	0.0800	128	37.4 - 123
2-Fluorobiphenyl		0.0342	mg/L	1	0.0800	43	34.3 - 130
Terphenyl-d14	¹⁰	0.612	mg/L	1	0.0800	765	10 - 252

Sample: 174087 - MW-3

Laboratory: Midland	Analytical Method: Mod. 8015B	Prep Method: N/A
Analysis: TPH DRO	Date Analyzed: 2008-09-26	Analyzed By: LD
QC Batch: 52748	Sample Preparation: 2008-09-26	Prepared By: LD
Prep Batch: 45205		

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		126	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	¹¹	16.1	mg/L	1	10.0	161	70 - 130

Sample: 174087 - MW-3

Laboratory: Midland	Analytical Method: S 8015B	Prep Method: S 5030B
Analysis: TPH GRO	Date Analyzed: 2008-09-22	Analyzed By: DC
QC Batch: 52618	Sample Preparation: 2008-09-22	Prepared By: AG
Prep Batch: 45094		

continued ...

⁹High surrogate recovery due to peak interference.

¹⁰High surrogate recovery due to peak interference.

¹¹High surrogate recovery due to peak interference.

sample 174087 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
GRO		116	mg/L	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.34	mg/L	100	10.0	93	70 - 130
4-Bromofluorobenzene (4-BFB)		9.39	mg/L	100	10.0	94	70 - 130

Sample: 174088 - MW-5

Laboratory: Midland
Analysis: BTEX
QC Batch: 52600
Prep Batch: 45094

Analytical Method: S 8021B
Date Analyzed: 2008-09-22
Sample Preparation: 2008-09-22

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		5.36	mg/L	20	0.00100
Toluene		4.73	mg/L	20	0.00100
Ethylbenzene		0.878	mg/L	20	0.00100
Xylene		2.00	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.75	mg/L	20	2.00	88	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		1.85	mg/L	20	2.00	92	52 - 124.1

Sample: 174088 - MW-5

Laboratory: Lubbock
Analysis: PAH
QC Batch: 52820
Prep Batch: 45266

Analytical Method: S 8270C
Date Analyzed: 2008-09-26
Sample Preparation: 2008-09-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene	¹²	0.148	mg/L	1	0.000200

continued ...

¹²Estimated concentration value greater than standard range.

sample 174088 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
2-Methylnaphthalene	¹³	0.312	mg/L	1	0.000200
1-Methylnaphthalene	¹⁴	0.268	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.0199	mg/L	1	0.000200
Fluorene		0.0289	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.0336	mg/L	1	0.000200
Fluoranthene		0.00119	mg/L	1	0.000200
Pyrene		0.00166	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		0.00481	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0626	mg/L	1	0.0800	78	37.4 - 123
2-Fluorobiphenyl		0.0437	mg/L	1	0.0800	55	34.3 - 130
Terphenyl-d14		0.0529	mg/L	1	0.0800	66	10 - 252

Sample: 174088 - MW-5

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 52748
Prep Batch: 45205

Analytical Method: Mod. 8015B
Date Analyzed: 2008-09-26
Sample Preparation: 2008-09-26

Prep Method: N/A
Analyzed By: LD
Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		16.4	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	¹⁵	13.5	mg/L	1	10.0	135	70 - 130

¹³Estimated concentration value greater than standard range.

¹⁴Estimated concentration value greater than standard range.

¹⁵High surrogate recovery. Sample non-detect, result bias high.

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Sample: 174088 - MW-5

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 52618
Prep Batch: 45094

Analytical Method: S 8015B
Date Analyzed: 2008-09-22
Sample Preparation: 2008-09-22

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		38.2	mg/L	20	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.78	mg/L	20	2.00	89	70 - 130
4-Bromofluorobenzene (4-BFB)		1.90	mg/L	20	2.00	95	70 - 130

Sample: 174089 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 52654
Prep Batch: 45121

Analytical Method: S 8021B
Date Analyzed: 2008-09-23
Sample Preparation: 2008-09-23

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		3.22	mg/L	20	0.00100
Toluene		1.94	mg/L	20	0.00100
Ethylbenzene		0.285	mg/L	20	0.00100
Xylene		0.697	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.82	mg/L	20	2.00	91	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		1.89	mg/L	20	2.00	94	52 - 124.1

Sample: 174089 - MW-6

Laboratory: Lubbock
Analysis: PAH
QC Batch: 52820
Prep Batch: 45266

Analytical Method: S 8270C
Date Analyzed: 2008-09-26
Sample Preparation: 2008-09-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0156	mg/L	1	0.000200

continued ...

sample 174089 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
2-Methylnaphthalene		0.0266	mg/L	1	0.000200
1-Methylnaphthalene		0.0228	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.00269	mg/L	1	0.000200
Fluorene		0.00377	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.00430	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		0.000899	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0398	mg/L	1	0.0800	50	37.4 - 123
2-Fluorobiphenyl	16	0.0256	mg/L	1	0.0800	32	34.3 - 130
Terphenyl-d14		0.0486	mg/L	1	0.0800	61	10 - 252

Sample: 174089 - MW-6

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 52748
Prep Batch: 45205

Analytical Method: Mod. 8015B
Date Analyzed: 2008-09-26
Sample Preparation: 2008-09-26

Prep Method: N/A
Analyzed By: LD
Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	17	14.0	mg/L	1	10.0	140	70 - 130

¹⁶8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

¹⁷High surrogate recovery. Sample non-detect, result bias high.

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Sample: 174089 - MW-6

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 52618
Prep Batch: 45094

Analytical Method: S 8015B
Date Analyzed: 2008-09-22
Sample Preparation: 2008-09-22

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		16.8	mg/L	5	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.453	mg/L	5	0.500	91	70 - 130
4-Bromofluorobenzene (4-BFB)		0.494	mg/L	5	0.500	99	70 - 130

Sample: 174090 - MW-7

Laboratory: Midland
Analysis: BTEX
QC Batch: 52654
Prep Batch: 45121

Analytical Method: S 8021B
Date Analyzed: 2008-09-23
Sample Preparation: 2008-09-23

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		10.7	mg/L	50	0.00100
Toluene		1.78	mg/L	50	0.00100
Ethylbenzene		0.453	mg/L	50	0.00100
Xylene		0.785	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.35	mg/L	50	5.00	87	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		4.50	mg/L	50	5.00	90	52 - 124.1

Sample: 174090 - MW-7

Laboratory: Lubbock
Analysis: PAH
QC Batch: 52820
Prep Batch: 45266

Analytical Method: S 8270C
Date Analyzed: 2008-09-26
Sample Preparation: 2008-09-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0422	mg/L	1	0.000200

continued ...

sample 174090 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
2-Methylnaphthalene		0.0362	mg/L	1	0.000200
1-Methylnaphthalene		0.0314	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.00280	mg/L	1	0.000200
Fluorene		0.00403	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.00239	mg/L	1	0.000200
Fluoranthene		<0.000200	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0674	mg/L	1	0.0800	84	37.4 - 123
2-Fluorobiphenyl		0.0543	mg/L	1	0.0800	68	34.3 - 130
Terphenyl-d14		0.0719	mg/L	1	0.0800	90	10 - 252

Sample: 174090 - MW-7

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 52748
Prep Batch: 45205

Analytical Method: Mod. 8015B
Date Analyzed: 2008-09-26
Sample Preparation: 2008-09-26

Prep Method: N/A
Analyzed By: LD
Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		8.62	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	¹⁸	13.9	mg/L	1	10.0	139	70 - 130

¹⁸High surrogate recovery. Sample non-detect, result bias high.

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Sample: 174090 - MW-7

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 52618
Prep Batch: 45094

Analytical Method: S 8015B
Date Analyzed: 2008-09-22
Sample Preparation: 2008-09-22

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		35.0	mg/L	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.884	mg/L	10	1.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)		0.944	mg/L	10	1.00	94	70 - 130

Sample: 174091 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 52654
Prep Batch: 45121

Analytical Method: S 8021B
Date Analyzed: 2008-09-23
Sample Preparation: 2008-09-23

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		14.1	mg/L	100	0.00100
Toluene		5.20	mg/L	100	0.00100
Ethylbenzene		1.10	mg/L	100	0.00100
Xylene		1.96	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		8.95	mg/L	100	10.0	90	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		9.24	mg/L	100	10.0	92	52 - 124.1

Sample: 174091 - MW-9

Laboratory: Lubbock
Analysis: PAH
QC Batch: 52820
Prep Batch: 45266

Analytical Method: S 8270C
Date Analyzed: 2008-09-26
Sample Preparation: 2008-09-25

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

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0840	mg/L	1	0.000200

continued ...

sample 174091 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
2-Methylnaphthalene		0.0832	mg/L	1	0.000200
1-Methylnaphthalene		0.0702	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		0.00701	mg/L	1	0.000200
Fluorene		0.00729	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		0.00735	mg/L	1	0.000200
Fluoranthene		0.000219	mg/L	1	0.000200
Pyrene		0.000350	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200
Chrysene		0.000950	mg/L	1	0.000200
Benzo(b)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene		<0.000200	mg/L	1	0.000200
Benzo(a)pyrene		<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene		<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene		<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene		<0.000200	mg/L	1	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0745	mg/L	1	0.0800	93	37.4 - 123
2-Fluorobiphenyl		0.0590	mg/L	1	0.0800	74	34.3 - 130
Terphenyl-d14		0.0732	mg/L	1	0.0800	92	10 - 252

Sample: 174091 - MW-9

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 52748
Prep Batch: 45205

Analytical Method: Mod. 8015B
Date Analyzed: 2008-09-26
Sample Preparation: 2008-09-26

Prep Method: N/A
Analyzed By: LD
Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		12.0	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	¹⁹	13.4	mg/L	1	10.0	134	70 - 130

¹⁹High surrogate recovery due to peak interference.

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Sample: 174091 - MW-9

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 52618
Prep Batch: 45094

Analytical Method: S 8015B
Date Analyzed: 2008-09-22
Sample Preparation: 2008-09-22

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

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		74.2	mg/L	5	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.476	mg/L	5	0.500	95	70 - 130
4-Bromofluorobenzene (4-BFB)		0.600	mg/L	5	0.500	120	70 - 130

Method Blank (1) QC Batch: 52600

QC Batch: 52600
Prep Batch: 45094

Date Analyzed: 2008-09-22
QC Preparation: 2008-09-22

Analyzed By: DC
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000500	mg/L	0.001
Toluene		<0.000700	mg/L	0.001
Ethylbenzene		<0.000700	mg/L	0.001
Xylene		<0.00180	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0985	mg/L	1	0.100	98	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0973	mg/L	1	0.100	97	37.1 - 130.9

Method Blank (1) QC Batch: 52618

QC Batch: 52618
Prep Batch: 45094

Date Analyzed: 2008-09-22
QC Preparation: 2008-09-22

Analyzed By: DC
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		0.0947	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0996	mg/L	1	0.100	100	70 - 130

continued ...

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method blank continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		0.0955	mg/L	1	0.100	96	50 - 130

Method Blank (1) QC Batch: 52654

QC Batch: 52654
Prep Batch: 45121

Date Analyzed: 2008-09-23
QC Preparation: 2008-09-23

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000500	mg/L	0.001
Toluene		<0.000700	mg/L	0.001
Ethylbenzene		<0.000700	mg/L	0.001
Xylene		<0.00180	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0885	mg/L	1	0.100	88	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0898	mg/L	1	0.100	90	37.1 - 130.9

Method Blank (1) QC Batch: 52748

QC Batch: 52748
Prep Batch: 45205

Date Analyzed: 2008-09-26
QC Preparation: 2008-09-26

Analyzed By: LD
Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		<2.44	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		12.5	mg/L	1	10.0	125	70 - 130

Method Blank (1) QC Batch: 52820

QC Batch: 52820
Prep Batch: 45266

Date Analyzed: 2008-09-26
QC Preparation: 2008-09-25

Analyzed By: DS
Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000730	mg/L	0.0002

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
2-Methylnaphthalene		<0.0000509	mg/L	0.0002
1-Methylnaphthalene		<0.0000748	mg/L	0.0002
Acenaphthylene		<0.0000767	mg/L	0.0002
Acenaphthene		<0.000142	mg/L	0.0002
Dibenzofuran		<0.0000470	mg/L	0.0002
Fluorene		<0.0000569	mg/L	0.0002
Anthracene		<0.0000876	mg/L	0.0002
Phenanthrene		<0.0000552	mg/L	0.0002
Fluoranthene		<0.0000954	mg/L	0.0002
Pyrene		<0.0000497	mg/L	0.0002
Benzo(a)anthracene		<0.0000328	mg/L	0.0002
Chrysene		<0.0000990	mg/L	0.0002
Benzo(b)fluoranthene		<0.0000684	mg/L	0.0002
Benzo(k)fluoranthene		<0.0000830	mg/L	0.0002
Benzo(a)pyrene		<0.0000549	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000869	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000605	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000681	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0563	mg/L	1	0.0800	70	10 - 146
2-Fluorobiphenyl		0.0516	mg/L	1	0.0800	64	10 - 141
Terphenyl-d14		0.0654	mg/L	1	0.0800	82	10 - 266

Laboratory Control Spike (LCS-1)

QC Batch: 52600
Prep Batch: 45094

Date Analyzed: 2008-09-22
QC Preparation: 2008-09-22

Analyzed By: DC
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0980	mg/L	1	0.100	<0.000500	98	71.7 - 120.5
Toluene	0.0976	mg/L	1	0.100	<0.000700	98	75.4 - 118.8
Ethylbenzene	0.0970	mg/L	1	0.100	<0.000700	97	73.5 - 118
Xylene	0.293	mg/L	1	0.300	<0.00180	98	72.9 - 118.2

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.100	mg/L	1	0.100	<0.000500	100	71.7 - 120.5	2	20
Toluene	0.0996	mg/L	1	0.100	<0.000700	100	75.4 - 118.8	2	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene	0.100	mg/L	1	0.100	<0.000700	100	73.5 - 118	3	20
Xylene	0.302	mg/L	1	0.300	<0.00180	100	72.9 - 118.2	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)	0.0898	0.0900	mg/L	1	0.100	90	90	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0913	0.0921	mg/L	1	0.100	91	92	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 52618
Prep Batch: 45094

Date Analyzed: 2008-09-22
QC Preparation: 2008-09-22

Analyzed By: DC
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	0.897	mg/L	1	1.00	0.0947	80	70 - 130

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
GRO	0.976	mg/L	1	1.00	0.0947	88	70 - 130	8	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)	0.0953	0.0943	mg/L	1	0.100	95	94	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0944	0.0922	mg/L	1	0.100	94	92	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 52654
Prep Batch: 45121

Date Analyzed: 2008-09-23
QC Preparation: 2008-09-23

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0959	mg/L	1	0.100	<0.000500	96	71.7 - 120.5
Toluene	0.0966	mg/L	1	0.100	<0.000700	97	75.4 - 118.8
Ethylbenzene	0.0958	mg/L	1	0.100	<0.000700	96	73.5 - 118
Xylene	0.289	mg/L	1	0.300	<0.00180	96	72.9 - 118.2

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	0.0936	mg/L	1	0.100	<0.000500	94	71.7 - 120.5	2	20
Toluene	0.0934	mg/L	1	0.100	<0.000700	93	75.4 - 118.8	3	20
Ethylbenzene	0.0937	mg/L	1	0.100	<0.000700	94	73.5 - 118	2	20
Xylene	0.283	mg/L	1	0.300	<0.00180	94	72.9 - 118.2	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)	0.0899	0.0907	mg/L	1	0.100	90	91	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0939	0.0938	mg/L	1	0.100	94	94	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 52748
Prep Batch: 45205

Date Analyzed: 2008-09-26
QC Preparation: 2008-09-26

Analyzed By: LD
Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	25.1	mg/L	1	25.0	<2.44	100	70 - 130

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
DRO	22.7	mg/L	1	25.0	<2.44	91	70 - 130	10	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
n-Triacontane	10.5	10.2	mg/L	1	10.0	105	102	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 52820
Prep Batch: 45266

Date Analyzed: 2008-09-26
QC Preparation: 2008-09-25

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0446	mg/L	1	0.0800	<0.0000730	56	10 - 141
2-Methylnaphthalene	0.0477	mg/L	1	0.0800	<0.0000509	60	50 - 150
1-Methylnaphthalene	0.0471	mg/L	1	0.0800	<0.0000748	59	50 - 150
Acenaphthylene	0.0575	mg/L	1	0.0800	<0.0000767	72	10 - 152
Acenaphthene	0.0547	mg/L	1	0.0800	<0.000142	68	10 - 151

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dibenzofuran	0.0569	mg/L	1	0.0800	<0.0000470	71	10 - 148
Fluorene	0.0633	mg/L	1	0.0800	<0.0000569	79	10 - 172
Anthracene	0.0558	mg/L	1	0.0800	<0.0000876	70	22.5 - 172
Phenanthrene	0.0556	mg/L	1	0.0800	<0.0000552	70	19.6 - 172
Fluoranthene	0.0616	mg/L	1	0.0800	<0.0000954	77	17.3 - 187
Pyrene	0.0600	mg/L	1	0.0800	<0.0000497	75	14.9 - 199
Benzo(a)anthracene	0.0581	mg/L	1	0.0800	<0.0000328	73	19.4 - 185
Chrysene	0.0608	mg/L	1	0.0800	<0.0000990	76	18.4 - 188
Benzo(b)fluoranthene	0.0594	mg/L	1	0.0800	<0.0000684	74	10 - 193
Benzo(k)fluoranthene	0.0611	mg/L	1	0.0800	<0.0000830	76	27.8 - 196
Benzo(a)pyrene	0.0668	mg/L	1	0.0800	<0.0000549	84	12.4 - 205
Indeno(1,2,3-cd)pyrene	0.0702	mg/L	1	0.0800	<0.0000869	88	10 - 198
Dibenzo(a,h)anthracene	0.0696	mg/L	1	0.0800	<0.0000605	87	10 - 172
Benzo(g,h,i)perylene	0.0689	mg/L	1	0.0800	<0.0000681	86	10 - 186

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
Naphthalene	0.0454	mg/L	1	0.0800	<0.0000730	57	10 - 141	2	20
2-Methylnaphthalene	0.0473	mg/L	1	0.0800	<0.0000509	59	50 - 150	1	20
1-Methylnaphthalene	0.0472	mg/L	1	0.0800	<0.0000748	59	50 - 150	0	20
Acenaphthylene	0.0577	mg/L	1	0.0800	<0.0000767	72	10 - 152	0	20
Acenaphthene	0.0560	mg/L	1	0.0800	<0.000142	70	10 - 151	2	20
Dibenzofuran	0.0584	mg/L	1	0.0800	<0.0000470	73	10 - 148	3	20
Fluorene	0.0670	mg/L	1	0.0800	<0.0000569	84	10 - 172	6	20
Anthracene	0.0568	mg/L	1	0.0800	<0.0000876	71	22.5 - 172	2	20
Phenanthrene	0.0574	mg/L	1	0.0800	<0.0000552	72	19.6 - 172	3	20
Fluoranthene	0.0601	mg/L	1	0.0800	<0.0000954	75	17.3 - 187	2	20
Pyrene	0.0624	mg/L	1	0.0800	<0.0000497	78	14.9 - 199	4	20
Benzo(a)anthracene	0.0587	mg/L	1	0.0800	<0.0000328	73	19.4 - 185	1	20
Chrysene	0.0619	mg/L	1	0.0800	<0.0000990	77	18.4 - 188	2	20
Benzo(b)fluoranthene	0.0601	mg/L	1	0.0800	<0.0000684	75	10 - 193	1	20
Benzo(k)fluoranthene	0.0621	mg/L	1	0.0800	<0.0000830	78	27.8 - 196	2	20
Benzo(a)pyrene	0.0678	mg/L	1	0.0800	<0.0000549	85	12.4 - 205	2	20
Indeno(1,2,3-cd)pyrene	0.0726	mg/L	1	0.0800	<0.0000869	91	10 - 198	3	20
Dibenzo(a,h)anthracene	0.0721	mg/L	1	0.0800	<0.0000605	90	10 - 172	4	20
Benzo(g,h,i)perylene	0.0718	mg/L	1	0.0800	<0.0000681	90	10 - 186	4	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
Nitrobenzene-d5	0.0574	0.0589	mg/L	1	0.0800	72	74	10 - 165
2-Fluorobiphenyl	0.0530	0.0524	mg/L	1	0.0800	66	66	10 - 157
Terphenyl-d14	0.0684	0.0707	mg/L	1	0.0800	86	88	10 - 220

Report Date: September 30, 2008
Plains008SPL

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Moore to Jal #2

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Matrix Spike (MS-1) Spiked Sample: 173893

QC Batch: 52600
Prep Batch: 45094

Date Analyzed: 2008-09-22
QC Preparation: 2008-09-22

Analyzed By: DC
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	10.7	mg/L	50	5.00	6.2921	88	10 - 160.8
Toluene	7.78	mg/L	50	5.00	3.2111	91	10 - 160.7
Ethylbenzene	5.29	mg/L	50	5.00	0.5921	94	10 - 158.3
Xylene	15.4	mg/L	50	15.0	1.2802	94	10 - 158

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	11.0	mg/L	50	5.00	6.2921	94	10 - 160.8	3	20
Toluene	8.08	mg/L	50	5.00	3.2111	97	10 - 160.7	4	20
Ethylbenzene	5.60	mg/L	50	5.00	0.5921	100	10 - 158.3	6	20
Xylene	16.4	mg/L	50	15.0	1.2802	101	10 - 158	6	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)	4.46	4.59	mg/L	50	5	89	92	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	4.65	4.74	mg/L	50	5	93	95	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 173892

QC Batch: 52618
Prep Batch: 45094

Date Analyzed: 2008-09-22
QC Preparation: 2008-09-22

Analyzed By: DC
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	221	mg/L	200	200	59.3011	81	70 - 130

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
GRO	237	mg/L	200	200	59.3011	89	70 - 130	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)	18.5	18.5	mg/L	200	20	92	92	70 - 130
4-Bromofluorobenzene (4-BFB)	18.8	18.4	mg/L	200	20	94	92	70 - 130

Report Date: September 30, 2008
Plains008SPL

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Lea County, NM

Matrix Spike (MS-1) Spiked Sample: 174071

QC Batch: 52654
Prep Batch: 45121

Date Analyzed: 2008-09-23
QC Preparation: 2008-09-23

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	3.30	mg/L	10	1.00	2.815	48	10 - 160.8
Toluene	0.900	mg/L	10	1.00	<0.00700	90	10 - 160.7
Ethylbenzene	0.946	mg/L	10	1.00	0.0575	89	10 - 158.3
Xylene	2.79	mg/L	10	3.00	0.089	90	10 - 158

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	3.57	mg/L	10	1.00	2.815	76	10 - 160.8	8	20
Toluene	1.00	mg/L	10	1.00	<0.00700	100	10 - 160.7	10	20
Ethylbenzene	1.06	mg/L	10	1.00	0.0575	100	10 - 158.3	11	20
Xylene	3.13	mg/L	10	3.00	0.089	101	10 - 158	12	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)	0.872	0.922	mg/L	10	1	87	92	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	0.904	0.958	mg/L	10	1	90	96	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 173739

QC Batch: 52748
Prep Batch: 45205

Date Analyzed: 2008-09-26
QC Preparation: 2008-09-26

Analyzed By: LD
Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	31.4	mg/L	1	25.0	3.74	111	70 - 130

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
DRO	29.3	mg/L	1	25.0	3.74	102	70 - 130	7	20

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

continued ...

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane ^{20 21}	14.2	13.6	mg/L	1	10	142	136	70 - 130

Standard (ICV-1)

QC Batch: 52600

Date Analyzed: 2008-09-22

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.112	112	85 - 115	2008-09-22
Toluene		mg/L	0.100	0.112	112	85 - 115	2008-09-22
Ethylbenzene		mg/L	0.100	0.109	109	85 - 115	2008-09-22
Xylene		mg/L	0.300	0.330	110	85 - 115	2008-09-22

Standard (CCV-1)

QC Batch: 52600

Date Analyzed: 2008-09-22

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.111	111	85 - 115	2008-09-22
Toluene		mg/L	0.100	0.107	107	85 - 115	2008-09-22
Ethylbenzene		mg/L	0.100	0.103	103	85 - 115	2008-09-22
Xylene		mg/L	0.300	0.308	103	85 - 115	2008-09-22

Standard (ICV-1)

QC Batch: 52618

Date Analyzed: 2008-09-22

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.06	106	85 - 115	2008-09-22

Standard (CCV-1)

QC Batch: 52618

Date Analyzed: 2008-09-22

Analyzed By: DC

²⁰High surrogate recovery due to peak interference.

²¹High surrogate recovery due to peak interference.

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.11	111	85 - 115	2008-09-22

Standard (ICV-1)

QC Batch: 52654

Date Analyzed: 2008-09-23

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.110	110	85 - 115	2008-09-23
Toluene		mg/L	0.100	0.110	110	85 - 115	2008-09-23
Ethylbenzene		mg/L	0.100	0.108	108	85 - 115	2008-09-23
Xylene		mg/L	0.300	0.328	109	85 - 115	2008-09-23

Standard (CCV-1)

QC Batch: 52654

Date Analyzed: 2008-09-23

Analyzed By: DC

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	85 - 115	2008-09-23
Toluene		mg/L	0.100	0.0919	92	85 - 115	2008-09-23
Ethylbenzene		mg/L	0.100	0.0913	91	85 - 115	2008-09-23
Xylene		mg/L	0.300	0.274	92	85 - 115	2008-09-23

Standard (CCV-1)

QC Batch: 52748

Date Analyzed: 2008-09-26

Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	240	96	85 - 115	2008-09-26

Standard (CCV-2)

QC Batch: 52748

Date Analyzed: 2008-09-26

Analyzed By: LD

Report Date: September 30, 2008
Plains008SPL

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	225	90	85 - 115	2008-09-26

Standard (CCV-3)

QC Batch: 52748

Date Analyzed: 2008-09-26

Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	224	90	85 - 115	2008-09-26

Standard (CCV-1)

QC Batch: 52820

Date Analyzed: 2008-09-26

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	56.6	94	80 - 120	2008-09-26
2-Methylnaphthalene		mg/L	60.0	52.3	87	80 - 120	2008-09-26
1-Methylnaphthalene		mg/L	60.0	52.7	88	80 - 120	2008-09-26
Acenaphthylene		mg/L	60.0	58.4	97	80 - 120	2008-09-26
Acenaphthene		mg/L	60.0	58.1	97	80 - 120	2008-09-26
Dibenzofuran		mg/L	60.0	61.9	103	80 - 120	2008-09-26
Fluorene		mg/L	60.0	69.6	116	80 - 120	2008-09-26
Anthracene		mg/L	60.0	58.3	97	80 - 120	2008-09-26
Phenanthrene		mg/L	60.0	56.4	94	80 - 120	2008-09-26
Fluoranthene		mg/L	60.0	57.4	96	80 - 120	2008-09-26
Pyrene		mg/L	60.0	59.2	99	80 - 120	2008-09-26
Benzo(a)anthracene		mg/L	60.0	55.6	93	80 - 120	2008-09-26
Chrysene		mg/L	60.0	57.3	96	80 - 120	2008-09-26
Benzo(b)fluoranthene		mg/L	60.0	60.3	100	80 - 120	2008-09-26
Benzo(k)fluoranthene		mg/L	60.0	60.3	100	80 - 120	2008-09-26
Benzo(a)pyrene		mg/L	60.0	64.1	107	80 - 120	2008-09-26
Indeno(1,2,3-cd)pyrene		mg/L	60.0	68.7	114	80 - 120	2008-09-26
Dibenzo(a,h)anthracene		mg/L	60.0	68.7	114	80 - 120	2008-09-26
Benzo(g,h,i)perylene		mg/L	60.0	66.6	111	80 - 120	2008-09-26

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		60.4	mg/L	1	60.0	101	80 - 120
2-Fluorobiphenyl		53.2	mg/L	1	60.0	89	80 - 120
Terphenyl-d14		58.9	mg/L	1	60.0	98	80 - 120

Standard (CCV-2)

QC Batch: 52820

Date Analyzed: 2008-09-26

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	57.2	95	80 - 120	2008-09-26
2-Methylnaphthalene		mg/L	60.0	53.5	89	80 - 120	2008-09-26
1-Methylnaphthalene		mg/L	60.0	54.3	90	80 - 120	2008-09-26
Acenaphthylene		mg/L	60.0	58.8	98	80 - 120	2008-09-26
Acenaphthene		mg/L	60.0	57.7	96	80 - 120	2008-09-26
Dibenzofuran		mg/L	60.0	62.2	104	80 - 120	2008-09-26
Fluorene		mg/L	60.0	69.0	115	80 - 120	2008-09-26
Anthracene		mg/L	60.0	59.2	99	80 - 120	2008-09-26
Phenanthrene		mg/L	60.0	56.5	94	80 - 120	2008-09-26
Fluoranthene		mg/L	60.0	57.4	96	80 - 120	2008-09-26
Pyrene		mg/L	60.0	58.0	97	80 - 120	2008-09-26
Benzo(a)anthracene		mg/L	60.0	56.0	93	80 - 120	2008-09-26
Chrysene		mg/L	60.0	57.8	96	80 - 120	2008-09-26
Benzo(b)fluoranthene		mg/L	60.0	60.8	101	80 - 120	2008-09-26
Benzo(k)fluoranthene		mg/L	60.0	59.4	99	80 - 120	2008-09-26
Benzo(a)pyrene		mg/L	60.0	63.8	106	80 - 120	2008-09-26
Indeno(1,2,3-cd)pyrene		mg/L	60.0	69.4	116	80 - 120	2008-09-26
Dibenzo(a,h)anthracene		mg/L	60.0	70.0	117	80 - 120	2008-09-26
Benzo(g,h,i)perylene		mg/L	60.0	67.7	113	80 - 120	2008-09-26

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		59.3	mg/L	1	60.0	99	80 - 120
2-Fluorobiphenyl		53.6	mg/L	1	60.0	89	80 - 120
Terphenyl-d14		58.0	mg/L	1	60.0	97	80 - 120



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Certifications

WBENC: 237019

HUB: 1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX

El Paso: T104704221-08-TX

Midland: T104704392-08-TX

LELAP-02003

LELAP-02002

Kansas E-10317

Analytical and Quality Control Report

Shanna Smith
Talon LPE-Amarillo
921 North Bivins
Amarillo, TX, 79107

Report Date: December 24, 2008

Work Order: 8121801



Project Location: Lea County, N.M.
Project Name: Moore to Jal #2
Project Number: Plains008SPL
SRS#: 2002-10273

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
182737	MW-2	water	2008-12-17	12:37	2008-12-18
182738	MW-4	water	2008-12-17	13:13	2008-12-18
182739	MW-8	water	2008-12-17	13:45	2008-12-18
182740	MW-10	water	2008-12-17	12:27	2008-12-18
182741	MW-11	water	2008-12-17	12:58	2008-12-18
182742	MW-12	water	2008-12-17	13:07	2008-12-18
182743	MW-13	water	2008-12-17	13:15	2008-12-18

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch

basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

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



Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Moore to Jal #2 were received by TraceAnalysis, Inc. on 2008-12-18 and assigned to work order 8121801. Samples for work order 8121801 were received intact without headspace and at a temperature of 3.6 deg. C.

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

<u>Test</u>	<u>Method</u>
BTEX	S 8021B

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 8121801 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: 182737 - MW-2

Laboratory: Midland

Analysis: BTEX

QC Batch: 55359

Prep Batch: 47316

Analytical Method: S 8021B

Date Analyzed: 2008-12-18

Sample Preparation: 2008-12-18

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0247	mg/L	20	0.00100
Toluene		0.0542	mg/L	20	0.00100
Ethylbenzene		0.0331	mg/L	20	0.00100
Xylene		0.0586	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.02	mg/L	20	2.00	101	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		2.08	mg/L	20	2.00	104	52 - 124.1

Sample: 182738 - MW-4

Laboratory: Midland

Analysis: BTEX

QC Batch: 55359

Prep Batch: 47316

Analytical Method: S 8021B

Date Analyzed: 2008-12-18

Sample Preparation: 2008-12-18

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		26.8	mg/L	100	0.00100
Toluene		0.368	mg/L	100	0.00100
Ethylbenzene		1.20	mg/L	100	0.00100
Xylene		1.17	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.88	mg/L	100	10.0	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		10.1	mg/L	100	10.0	101	52 - 124.1

Sample: 182739 - MW-8

Laboratory: Midland

Analysis: BTEX

QC Batch: 55497

Prep Batch: 47429

Analytical Method: S 8021B

Date Analyzed: 2008-12-22

Sample Preparation: 2008-12-22

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Report Date: December 24, 2008
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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		27.7	mg/L	200	0.00100
Toluene		2.36	mg/L	200	0.00100
Ethylbenzene		0.845	mg/L	200	0.00100
Xylene		2.46	mg/L	200	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		21.4	mg/L	200	20.0	107	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		20.3	mg/L	200	20.0	102	52 - 124.1

Sample: 182740 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 55359
Prep Batch: 47316

Analytical Method: S 8021B
Date Analyzed: 2008-12-18
Sample Preparation: 2008-12-18

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00790	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	52 - 124.1

Sample: 182741 - MW-11

Laboratory: Midland
Analysis: BTEX
QC Batch: 55359
Prep Batch: 47316

Analytical Method: S 8021B
Date Analyzed: 2008-12-18
Sample Preparation: 2008-12-18

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00340	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: December 24, 2008
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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	52 - 124.1

Sample: 182742 - MW-12

Laboratory: Midland
Analysis: BTEX
QC Batch: 55359
Prep Batch: 47316

Analytical Method: S 8021B
Date Analyzed: 2008-12-18
Sample Preparation: 2008-12-18

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00400	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)		0.102	mg/L	1	0.100	102	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	52 - 124.1

Sample: 182743 - MW-13

Laboratory: Midland
Analysis: BTEX
QC Batch: 55359
Prep Batch: 47316

Analytical Method: S 8021B
Date Analyzed: 2008-12-18
Sample Preparation: 2008-12-18

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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		2.41	mg/L	10	0.00100
Toluene		<0.0100	mg/L	10	0.00100
Ethylbenzene		0.0206	mg/L	10	0.00100
Xylene		0.0609	mg/L	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.993	mg/L	10	1.00	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		1.02	mg/L	10	1.00	102	52 - 124.1

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Method Blank (1) QC Batch: 55359

QC Batch: 55359 Date Analyzed: 2008-12-18 Analyzed By: ME
Prep Batch: 47316 QC Preparation: 2008-12-18 Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000800	mg/L	0.001
Toluene		<0.000800	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0948	mg/L	1	0.100	95	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	37.1 - 130.9

Method Blank (1) QC Batch: 55497

QC Batch: 55497 Date Analyzed: 2008-12-22 Analyzed By: ME
Prep Batch: 47429 QC Preparation: 2008-12-22 Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000800	mg/L	0.001
Toluene		<0.000800	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0992	mg/L	1	0.100	99	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0984	mg/L	1	0.100	98	37.1 - 130.9

Laboratory Control Spike (LCS-1)

QC Batch: 55359 Date Analyzed: 2008-12-18 Analyzed By: ME
Prep Batch: 47316 QC Preparation: 2008-12-18 Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.102	mg/L	1	0.100	<0.000800	102	71.7 - 120.5
Toluene	0.101	mg/L	1	0.100	<0.000800	101	75.4 - 118.8
Ethylbenzene	0.0988	mg/L	1	0.100	<0.000500	99	73.5 - 118

continued ...

Report Date: December 24, 2008
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control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Xylene	0.299	mg/L	1	0.300	<0.000900	100	72.9 - 118.2

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	0.0992	mg/L	1	0.100	<0.000800	99	71.7 - 120.5	3	20
Toluene	0.0989	mg/L	1	0.100	<0.000800	99	75.4 - 118.8	2	20
Ethylbenzene	0.0978	mg/L	1	0.100	<0.000500	98	73.5 - 118	1	20
Xylene	0.296	mg/L	1	0.300	<0.000900	99	72.9 - 118.2	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)	0.104	0.104	mg/L	1	0.100	104	104	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.106	0.106	mg/L	1	0.100	106	106	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 55497
Prep Batch: 47429

Date Analyzed: 2008-12-22
QC Preparation: 2008-12-22

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0733	mg/L	1	0.100	<0.000800	73	71.7 - 120.5
Toluene	0.0997	mg/L	1	0.100	<0.000800	100	75.4 - 118.8
Ethylbenzene	0.110	mg/L	1	0.100	<0.000500	110	73.5 - 118
Xylene	0.335	mg/L	1	0.300	<0.000900	112	72.9 - 118.2

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	0.0720	mg/L	1	0.100	<0.000800	72	71.7 - 120.5	2	20
Toluene	0.0984	mg/L	1	0.100	<0.000800	98	75.4 - 118.8	1	20
Ethylbenzene	0.111	mg/L	1	0.100	<0.000500	111	73.5 - 118	1	20
Xylene	0.337	mg/L	1	0.300	<0.000900	112	72.9 - 118.2	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)	0.111	0.105	mg/L	1	0.100	111	105	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.109	0.104	mg/L	1	0.100	109	104	43.9 - 132.4

Matrix Spike (MS-1) Spiked Sample: 182760

QC Batch: 55359
Prep Batch: 47316

Date Analyzed: 2008-12-18
QC Preparation: 2008-12-18

Analyzed By: ME
Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.480	mg/L	5	0.500	<0.00400	96	10 - 160.8
Toluene	0.476	mg/L	5	0.500	<0.00400	95	10 - 160.7
Ethylbenzene	0.462	mg/L	5	0.500	<0.00250	92	10 - 158.3
Xylene	1.40	mg/L	5	1.50	0.0057	93	10 - 158

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	0.525	mg/L	5	0.500	<0.00400	105	10 - 160.8	9	20
Toluene	0.516	mg/L	5	0.500	<0.00400	103	10 - 160.7	8	20
Ethylbenzene	0.506	mg/L	5	0.500	<0.00250	101	10 - 158.3	9	20
Xylene	1.53	mg/L	5	1.50	0.0057	102	10 - 158	9	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)	0.502	0.524	mg/L	5	0.5	100	105	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	0.494	0.517	mg/L	5	0.5	99	103	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 183149

QC Batch: 55497
Prep Batch: 47429

Date Analyzed: 2008-12-22
QC Preparation: 2008-12-22

Analyzed By: ME
Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	4.80	mg/L	20	2.00	3.0865	86	10 - 160.8
Toluene	1.86	mg/L	20	2.00	<0.0160	93	10 - 160.7
Ethylbenzene	3.32	mg/L	20	2.00	0.8239	125	10 - 158.3
Xylene	7.18	mg/L	20	6.00	0.639	109	10 - 158

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	4.55	mg/L	20	2.00	3.0865	73	10 - 160.8	5	20
Toluene	1.89	mg/L	20	2.00	<0.0160	94	10 - 160.7	2	20
Ethylbenzene	2.95	mg/L	20	2.00	0.8239	106	10 - 158.3	12	20
Xylene	7.05	mg/L	20	6.00	0.639	107	10 - 158	2	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)	2.07	2.08	mg/L	20	2	104	104	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	2.22	2.16	mg/L	20	2	111	108	37.5 - 136

Standard (ICV-1)

QC Batch: 55359

Date Analyzed: 2008-12-18

Analyzed By: ME

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.102	102	85 - 115	2008-12-18
Toluene		mg/L	0.100	0.100	100	85 - 115	2008-12-18
Ethylbenzene		mg/L	0.100	0.0979	98	85 - 115	2008-12-18
Xylene		mg/L	0.300	0.296	99	85 - 115	2008-12-18

Standard (CCV-1)

QC Batch: 55359

Date Analyzed: 2008-12-18

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	0.0975	98	85 - 115	2008-12-18
Toluene		mg/L	0.100	0.0963	96	85 - 115	2008-12-18
Ethylbenzene		mg/L	0.100	0.0951	95	85 - 115	2008-12-18
Xylene		mg/L	0.300	0.288	96	85 - 115	2008-12-18

Standard (ICV-1)

QC Batch: 55497

Date Analyzed: 2008-12-22

Analyzed By: ME

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.106	106	85 - 115	2008-12-22
Toluene		mg/L	0.100	0.105	105	85 - 115	2008-12-22
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2008-12-22
Xylene		mg/L	0.300	0.308	103	85 - 115	2008-12-22

Standard (CCV-1)

QC Batch: 55497

Date Analyzed: 2008-12-22

Analyzed By: ME

Report Date: December 24, 2008
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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.106	106	85 - 115	2008-12-22
Toluene		mg/L	0.100	0.103	103	85 - 115	2008-12-22
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2008-12-22
Xylene		mg/L	0.300	0.308	103	85 - 115	2008-12-22

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

5002 Basin Street, Suite A1
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LAB Order # 8121801

Company Name: <u>TraceAnalysis, Inc.</u>		Phone #: <u>(432) 522-2133</u>	
Address: <u>2001 Looking Hwy</u>		Fax #: <u></u>	
Contact Person: <u>Sharon Smith</u>		E-mail: <u>Smith@talenpe.com</u>	
Invoice to: <u>TraceAnalysis, Inc.</u>			
(If different from above) <u>TraceAnalysis, Inc.</u>		Project Name: <u>SRST# 2002-10273</u>	
Project #: <u>PHATK0085PL</u>		Project Location (including state): <u>Worcester, MA</u>	
Project Location (including state): <u>Worcester, MA</u>		Sampler Signature: <u>Carl Vassallo/Rob Fishburn</u>	

LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD						SAMPLING		TIME	DATE	Temp °C
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	Temp °C			
	MW-2	3	VOA	X			X								12/18/08	1237	
	MW-4	3		X			X								12/18/08	1313	
	MW-8	3		X			X								12/18/08	1345	
	MW-10	3		X			X								12/18/08	1227	
	MW-11	3		X			X								12/18/08	1258	
	MW-12	3		X			X								12/18/08	1307	
	MW-13	3		X			X								12/18/08	1315	

LAB USE ONLY	RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME	TEMP °C
	Sharon Smith	TraceAnalysis, Inc.	12/18/08	0800	Sharon Smith	TraceAnalysis, Inc.	12/18/08	0802	
	Sharon Smith	TraceAnalysis, Inc.	12/18/08	8:25	Sharon Smith	TraceAnalysis, Inc.	12-18-08	0825	3.6°C

LAB USE ONLY	REMARKS
	All tests Midland.

LAB USE ONLY	REMARKS
	All tests Midland.

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

ORIGINAL COPY

Carrier # Carly-in

APPENDIX D

NMOCD C-141

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company EOTT	Contact Frank Hernandez
Address PO Box 1660 5805 East Highway 80 Midland, Texas 79702	Telephone No. 915.638.3799
Facility Name 8" Moore to Jal #2	Facility Type 8" Steel Pipeline

Surface Owner State of New Mexico	Mineral Owner	Lease No.
--------------------------------------	---------------	-----------

LOCATION OF RELEASE

Unit Letter 16	Section 16	Township T17S	Range R37E	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea Lat. 32 49' 56.61"N Lon. 103 15' 08.47"W
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NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 25 bbls barrels	Volume Recovered 0 bbls barrels
Source of Release 8" Steel Pipeline	Date and Hour of Occurrence EOTT	Date and Hour of Discovery 10-22-02 @ 7:00 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson	
By Whom? Pat McCasland, EPI	Date and Hour 10-23-02 @ 7:00 AM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	
If a Watercourse was Impacted, Describe Fully.* NA		
Describe Cause of Problem and Remedial Action Taken.* 8" Steel Pipeline Site will be delineated to determine the vertical and horizontal extents of contamination. Contaminated soil will be blended on site or disposed of.		
Describe Area Affected and Cleanup Action Taken.* 5,794 sqft ~160' x 40' Site will be delineated to determine the vertical and horizontal extents of contamination. Contaminated soil will be blended on site or disposed of. Remedial Goals: TPH 8015m = 100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature:	OIL CONSERVATION DIVISION	
Printed Name: Frank Hernandez	Approved by District Supervisor:	
Title: District Environmental Supervisor	Approval Date:	Expiration Date:
Date: October 23, 2003 Phone: 915.638.3799	Conditions of Approval:	Attached ☐

* Attach Additional Sheets If Necessary

EOTT Site Information and Metrics		Incident Date: 10-22-02 @ 5:00 Pm	NMOCD Notified: 10-23-02 @ 7:00 AM
SITE: 8" Moore to Jal #2		Assigned Site Reference #: 2002-10273	
Company: EOTT			
Street Address: PO Box 1660			
Mailing Address: 5805 East Highway 80			
City, State, Zip: Midland, Texas 79702			
Representative: Frank Hernandez			
Representative Telephone: 915.638.3799			
Telephone:			
Fluid volume released (bbls): 25 bbls		Recovered (bbls): 0 bbls	
>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" Moore to Jal #2			
Source of contamination: 8" Steel Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico			
LSP Dimensions ~160' x 40'			
LSP Area: 5,794 sqft ft ²			
Location of Reference Point (RP)			
Location distance and direction from RP			
Latitude: 32 49' 56.61"N			
Longitude: 103 15' 08.47"W			
Elevation above mean sea level:			
Feet from South Section Line			
Feet from West Section Line			
Location- Unit or ¼: NW¼ of the SE¼		Unit Letter: J	
Location- Section: 16			
Location- Township: T17S			
Location- Range: R37E			
Surface water body within 1000' radius of site: none			
Surface water body within 1000' radius of site:			
Domestic water wells within 1000' radius of site: none			
Domestic water wells within 1000' radius of site:			
Agricultural water wells within 1000' radius of site: none			
Agricultural water wells within 1000' radius of site:			
Public water supply wells within 1000' radius of site: none			
Public water supply wells within 1000' radius of site:			
Depth from land surface to ground water (DG) ~66'bgs			
Depth of contamination (DC) - ?			
Depth to ground water (DG - DC = DtGW) - 0			
1. Ground Water		2. Wellhead Protection Area	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or; <200' from private domestic water source: 20 points	
If Depth to GW 50 to 99 feet: 10 points		If >1000' from water source, or; >200' from private domestic water source: 0 points	
If Depth to GW >100 feet: 0 points			
Ground water Score = 20		Wellhead Protection Area Score = 0	
Site Rank (1+2+3) = 20		3. Distance to Surface Water Body	
		<200 horizontal feet: 20 points	
		200-100 horizontal feet: 10 points	
		>1000 horizontal feet: 0 points	
		Surface Water Score = 0	
Total Site Ranking Score and Acceptable Concentrations			
Parameter	>19	10-19	0-9
Benzene ¹	10 ppm	10 ppm	10 ppm
BTEX	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			