AP - 37

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. Cayler	AP-052	Section 06, T17S, R37E, Lea County
Hobbs Junction Mainline	AP-054	Section 26, T18S, R37E, Lea County
Kimbrough Sweet 8-inch	AP-0029	Section 03, T18S, R37E, Lea County
Lovington Deep 6-inch	AP-037	Section 03, T18S, R37E, Lea County

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

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

Sincerely,

Jason Henry

Jason Henry
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

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2008 ANNUAL GROUNDWATER MONITORING REPORT
LOVINGTON DEEP 6"
SECTION 3, TOWNSHIP 18 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
PLAINS SRS #2002-10312
NMOCD REF. # AP-037

PREPARED FOR:

PLAINS PIPELINE, L.P.
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Houston, Texas 77002

PREPARED BY:

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318 E. Taylor Street
Hobbs, New Mexico 88240

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MARCH 27, 2009

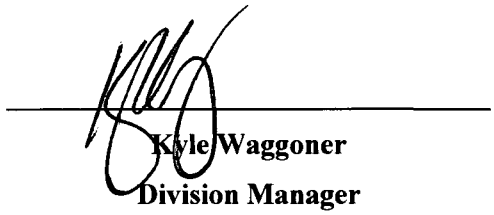
2008 ANNUAL GROUNDWATER MONITORING REPORT

LOVINGTON DEEP 6"
LEA COUNTY, NEW MEXICO
SRS #2002 - 10312
NMOCD REF. # AP-037

TALON/LPE PROJECT NO. PLAINS046SPL

Prepared by:

Shanna L. Smith
Project Manager



Kyle Waggoner
Division Manager

TALON/LPE
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March 2009

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NMOCD - New Mexico Oil Conservation Division

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APPENDICES

1.0 INTRODUCTION AND OBJECTIVES

1.1 Objectives and Site Background

The Lovington Deep 6" (site) release site is located approximately 5.8 miles southwest of Lovington in Lea County, New Mexico. The release occurred on property which is utilized as pasture land and owned by Chevron. The site is located within the West Lovington oil field, with no residences or surface water within a 1,000-foot radius of the release site. The remediation area is surrounded by a barbed wire fence and is gated.

In December 2002, a release of approximately 25 barrels (bbls) of crude oil, with 10 bbls recovered, occurred at the site due to corrosion of the pipeline. Approximately 6,000 square feet of surface area was impacted by the release. Surficial soil impacted by the release was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm for treatment.

On February 5, 2007, Talon/LPE (Talon) was retained by Plains Marketing, L.P. (Plains) to assume remediation activities at the Lovington Deep 6" release site. Remediation activities at the site were previously conducted by Environmental Plus, Inc. (EPI).

1.2 Previous Environmental Investigations

In an initial effort to delineate the extent of impacted soil at the site, six soil borings were advanced from December 27, 2002 through January 2, 2004. During the advancement of soil boring BH-1, groundwater was encountered and was found to be impacted by phase separated hydrocarbons (PSH). Subsequently, soil boring BH-1 was completed as a groundwater monitor well, MW-2. Soil borings BH-2, BH-4 through BH-6 were advanced to delineate the impacted area and were completed as groundwater monitor wells MW-1, MW-3, MW-4, and MW-5.

During November and December 2004, six (6) additional groundwater monitor wells (MW-6 through MW-11) were installed to further delineate the lateral extent of groundwater impact at the site. In July 2006, an additional six (6) groundwater monitor wells (MW-12 through MW-17) were installed.

PSH recovery operations have been performed at the site since March 2003. Approximately 1,567 gallons (37 bbls) of PSH have been recovered to date from the site.

1.3 Regulatory Framework

Groundwater analytical data from this site was compared to the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards. 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 4 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. Eleven (11) monitor wells, MW-1 and MW-3 through MW-12, were purged and sampled. Six (6) monitor wells, MW-2 and MW-13 through MW-17, 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. Eleven (11) monitor wells, MW-1 and MW-3 through MW-12, were purged and sampled. Six (6) monitor wells, MW-2 and MW-13 through MW-17, 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. Seventeen (17) monitor wells, MW-1 through MW-17, were purged and sampled. Six (6) monitor wells, MW-2 and MW-13 through MW-17, exhibited PSH thicknesses ranging from 0.11' to 2.82'; however, groundwater samples were collected from these wells per NMOCD's request. 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. Eleven (11) monitor wells, MW-1 and MW-3 through MW-12 were purged and sampled. Six (6) monitor wells, MW-2, MW-13 through MW-17, 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 Historical Fluid Level Measurements.

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-2 and MW-13 through MW-17) were purged utilizing a pump and vinyl tubing. Purge volumes for 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. Recovered purged

groundwater and recovered decon water was immediately transferred to the on-site poly tank which stores recovered PSH. This tank is monitored for accumulations and all recovered water and PSH is properly disposed of as needed. Approximately four hundred and sixty three (463) gallons of groundwater was purged during the monitoring events of 2008.

Groundwater samples were collected from all monitor wells utilizing dedicated disposable Teflon® bailers, except for the monitor wells exhibiting PSH during the September 2008 groundwater sampling event. These groundwater samples were collected through the pump and 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 benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method SW-846 8021B and poly-aromatic hydrocarbons (PAH) using EPA Methods SW-846 and 8270C.

2.3 Phase Separated Hydrocarbon Recovery

PSH recovery methods have been conducted at the site since 2003 via portable total fluid pump. In February 2008, an automated skimmer recovery system was installed at the site. A total of five (5) skimmer pumps were installed in monitor wells MW-2, MW-13, MW-14, MW-16, and MW-17. Talon conducts weekly operation and maintenance to the skimmer system.

Recovered PSH is pumped to an on-site poly tank, which is monitor for the accumulation of PSH on a weekly basis. PSH is removed from the on-site poly tank via a vacuum truck and re-introduced to the Plains' pipeline system via the Scharb Station and/or 34 Junction South pipeline.

During 2008 the quarterly PSH recovery totals are as followed:

- 1st Quarter - 0 gallons (0 bbls)
- 2nd Quarter – 0 gallons (0 bbls)
- 3rd Quarter – 0 gallons (0 bbls)
- 4th Quarter – 840 gallons (20 bbls)

Approximately 1,567 gallons (37 bbls) of PSH have been recovered to date from the site.

3.0 GROUNDWATER MONITORING RESULTS

The results of the laboratory analyses are summarized in Table 2 – Summary of Groundwater Analytical Data in Appendix B. Laboratory analytical data reports and 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 Aquifer. The first water-bearing zone is likely to exhibit temporal fluctuations in saturated thickness based upon the season and the frequency and intensity of local and regional rainfall. The depth of groundwater has historically been approximately 63 to 70 feet bgs and the gradient direction is to the east.

3.1.2 Groundwater Gradient and Flow Direction

Water level measurements were collected on March 18, 2008, June 26, 2008, September 20, 2008 and December 23, 2008. The monitor well fluid level measurement data arising from the four (4) monitoring events is summarized in Table 1 - Summary of Historical Fluid Level Measurements in Appendix B.

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

- March 18, 2008
- June 26, 2008
- September 20, 2008
- December 23, 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 monitor wells. The water level elevations exhibit a general groundwater direction of flow to the east with an approximate gradient of 0.003 feet/foot.

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

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

The potentiometric surface map for December 2008 was constructed from water level elevations from all monitor wells. The water level elevations exhibit a general groundwater direction of flow to the east 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 is consistently towards the east.

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-2 and MW-13 through MW-17. PSH thickness ranged from 0.17 feet to 5.91 feet.
- In June 2008, PSH was observed in monitor wells MW-2 and MW-13 through MW-17. PSH thickness ranged from 0.14 feet to 1.27 feet.
- In September 2008, PSH was observed in monitor wells MW-2 and MW-13 through MW-17. PSH thickness ranged from 0.11 feet to 2.82 feet.
- In December 2008, PSH was observed in monitor wells MW-2 and MW-13 through MW-17. PSH thickness ranged from 0.18 feet to 1.43 feet.

PSH plume maps are presented on Figure 3a through 3d. Based on these measurements, the PSH plume is delineated by the current system and appears to be stable in thickness.

PSH recovery operations have been performed at the site since March 2003. Currently there are a total of five (5) skimmer pumps in operation in monitor wells MW-2, MW-13, MW-14, MW-16 and MW-17. A summary of the historical groundwater and PSH gauging is provided in Table 1. Approximately 1,567 gallons (37 bbls) of PSH have been recovered to date.

3.1.4 Groundwater Sampling Results

During the March 2008 sampling event, monitor wells MW-1 and MW-3 through MW-12 were sampled. Groundwater samples collected from these wells exhibited the following analytical results:

- Benzene concentrations ranged from <0.00100 mg/L to 12.4 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-3, MW-5, MW-10, and MW-12.
- Toluene concentrations ranged from <0.00100 mg/L to 1.65 mg/L. Toluene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor well MW-3.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.646 mg/L. All ethylbenzene concentrations were below the NMWQCC groundwater standard of 0.750 mg/L.
- Xylene concentrations ranged from <0.00100 mg/L to 1.18 mg/L. Xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in the groundwater sample collected from monitor well MW-3.
- Monitor wells MW-2 and MW-13 through MW-17 were not sampled due to the presence of PSH.

During the June 2008 sampling event, monitor wells MW-1 and MW-3 through MW-12 were sampled. Groundwater samples collected from these wells exhibited the following:

- Benzene concentrations ranged from <0.00100 mg/L to 11.2 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-3, MW-4, MW-5, MW-10, and MW-12.
- Toluene concentrations ranged from <0.00100 mg/L to 1.41 mg/L. Toluene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in the groundwater sample collected from monitor well MW-3.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.655 mg/L. All ethylbenzene concentrations were below the NMWQCC groundwater standard of 0.750 mg/L.
- Xylene concentrations ranged from <0.00100 mg/L to 0.775 mg/L. Xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in the groundwater samples collected from monitor well MW-3.
- Monitor wells MW-2 and MW-13 through MW-17 were not sampled due to the presence of PSH.

During the September 2008 sampling event, monitor wells MW-1 through MW-17, were sampled. Groundwater samples collected from these wells exhibited the following:

- Benzene concentrations ranged from <0.00100 mg/L to 15.4 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor well MW-2, MW-3, MW-4, MW-5, MW-10, and MW-12 through MW-17.
- Toluene concentrations ranged from <0.00100 mg/L to 9.60 mg/L. Toluene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in groundwater samples collected from monitor wells MW-2, MW-3, and MW-13 through MW-17.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 1.10 mg/L. Ethylbenzene concentrations exceeded the NMWQCC groundwater standard of 0.750 mg/L in groundwater samples collected from monitor wells MW-2, MW-3, and MW-13 through MW-17.
- Xylene concentrations ranged from <0.00100 mg/L to 2.89 mg/L. Xylene concentrations exceeded the NMWQCC groundwater standard of 0.620 mg/L in groundwater samples collected from monitor wells MW-2, MW-3 and MW-13, MW-14, and MW-17.
- PAH concentrations are summarized in Tables 3 and 4 in Appendix B.

During the December 2008 sampling event, monitor wells MW-1, and MW-3 through MW-12 were sampled. Groundwater samples collected from these wells exhibited the following:

- Benzene concentrations ranged from <0.00100 mg/L to 10.2 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-3, and MW-10 through MW-12.
- Toluene concentrations ranged from <0.00100 mg/L to 0.437 mg/L. All toluene concentrations were below the NMWQCC groundwater standard of 0.750 mg/L.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.412 mg/L. All

ethylbenzene concentrations were below the NMWQCC groundwater standard of 0.750 mg/L.

- Xylene concentrations ranged from <0.00100 mg/L to 0.294 mg/L. All xylene concentrations were below the NMWQCC groundwater standard of 0.620 mg/L.
- Monitor wells MW-3, and MW-13 through MW-17 were not sampled due to the presence of PSH.

The groundwater plume impacted at concentrations above the NMWQCC groundwater standards has been delineated in all directions except to the east of monitor well MW-12. 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.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following section presents a summary of the groundwater monitoring events conducted at the Lovington Deep 6" 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 east based upon the water level measurement data collected to date. The number and locations of the existing monitor well array are not adequate to detect movement of the dissolved-phase plume that might emanate east of monitor well MW-12. Down-gradient monitor well MW-12 exhibited benzene concentrations above NMWQCC groundwater standards through the four quarterly groundwater monitoring events. Additionally, monitor well MW-11 exhibited a benzene concentration above NMWQCC groundwater standards during the December 2008 groundwater sampling event.

PSH has been encountered in monitor wells MW-2, and MW-13 through MW-17. Monitor wells, MW-2, MW-13, MW-14, MW-16 and MW-17 have skimmer pumps installed in them. The PSH plume underlying this site has been delineated by the current monitoring system. Based upon the fluid level measurements to date, the PSH plume appears to be stable. The skimmer pump network has recovered approximately 2,029 gallons (48 bbls) of PSH to date.

Monitor wells MW-2, MW-3, and MW-13 through MW-17 exhibited BTEX concentrations above the NMWQCC groundwater standards during the September 2008 groundwater monitoring sampling event. The dissolved-phase plume appears to be moving and/or increasing in size east of monitor well MW-12.

4.2 Recommendations

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

- Gauge the monitor wells weekly to record water and PSH levels.
- Operate and maintain the existing skimmer recovery system to achieve maximum PSH recovery.
- Monitor wells MW-1, and MW-3 through MW-12 will be sampled and analyzed for BTEX quarterly and PAH annually.
- Monitor wells MW-2, and MW-13 through MW-17 will be added to the quarterly sampling/analysis schedule when PSH is no longer present in each well. Pursuant to the request of the NMOCD, Plains will collect a discrete sample below the PSH in the water table from these monitor wells on an annual basis to evaluate BTEX, TPH, and PAH concentrations in the groundwater.
- Install one (1) additional monitor well east of monitor well MW-12 for the delineation of the dissolved-phase plume (see Figure 1).

APPENDIX A

Drawings

Figure 1 - Site Plan with Proposed Well

Figure 2a - Groundwater Gradient Map - 03/18/2008

Figure 2b - Groundwater Gradient Map - 06/26/2008

Figure 2c - Groundwater Gradient Map - 09/20/2008

Figure 2d - Groundwater Gradient Map - 12/23/2008

Figure 3a - PSH Thickness & Groundwater Concentration Map - 03/18/2008

Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/26/2008

Figure 3c - PSH Thickness & Groundwater Concentration Map - 09/20/2008

Figure 3d - PSH Thickness & Groundwater Concentration Map - 12/23/2008

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

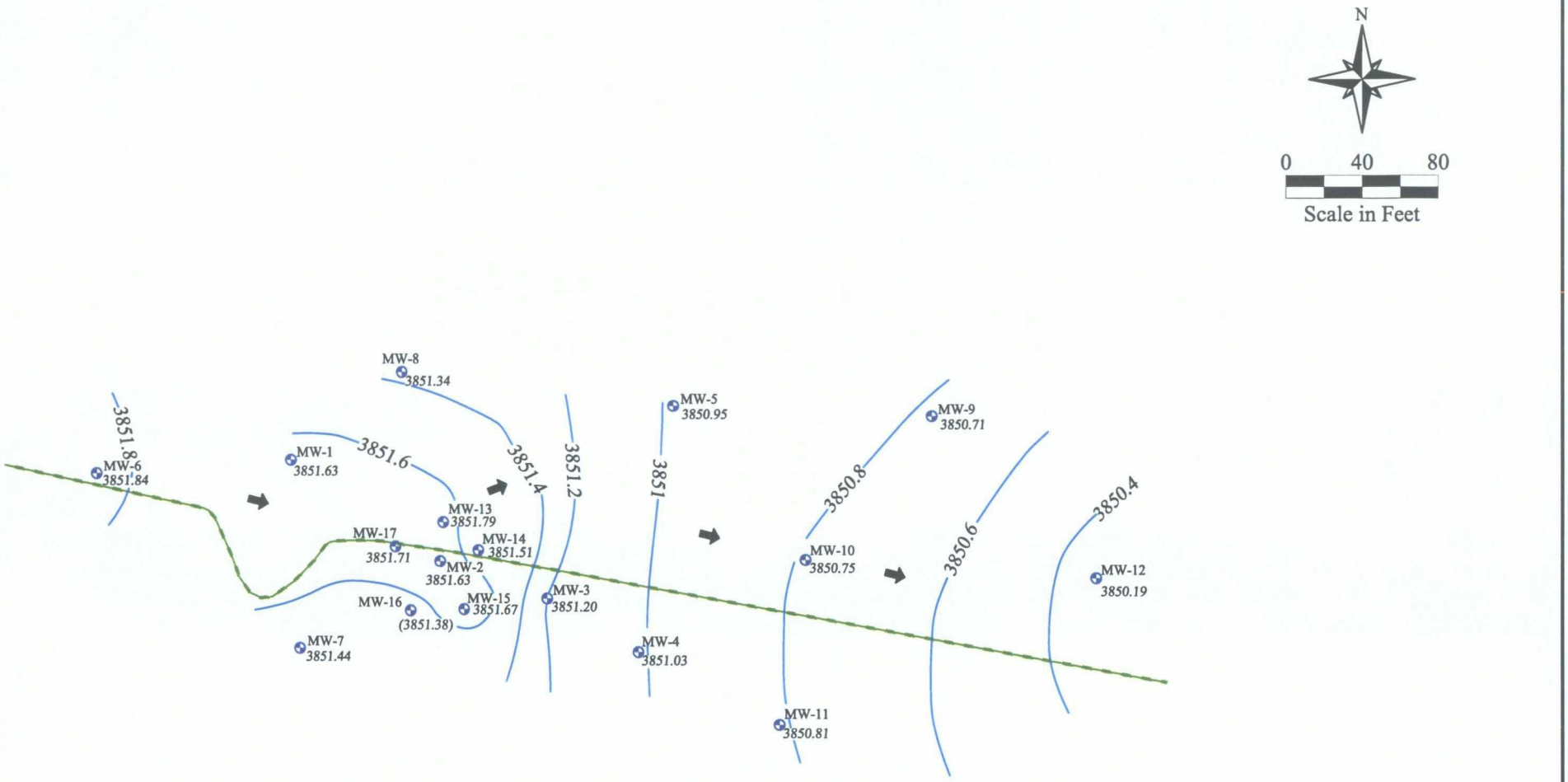
Talon/LPE # : PLAINS046SPL

TALON LPE

Date:	03/23/2009
Scale:	1" = 100'
Drawn By:	SJA

Lovington Deep 6"

SRS # 2002-10312, NMOCD REF. # AP-0029
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
Figure 1 - Site Plan with Proposed Well



Talon/LPE # : PLAINS046SPL

Date:	03/17/2009
Scale:	1" = 80'
Drawn By:	SJA

Lovington Deep 6"

SRS # 2002-10312, NMOCD REF. # AP-0029

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico

Figure 2a- Groundwater Gradient Map, - 03/18/2008

Talon/LPE # : PLAINS046SPL

Date:	03/17/2009
Scale:	1" = 80'
Drawn By:	SJA

Lovington Deep 6"

SRS # 2002-10312, NMOCD REF. # AP-0029

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico

Figure 2b- Groundwater Gradient Map, - 06/26/2008

Talon/LPE # : PLAINS046SPL

TALON LPE

Date: 03/17/2009
Scale: 1" = 80'
Drawn By: SJA

Lovington Deep 6"

SRS # 2002-10312, NMOCD REF. # AP-0029

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico

Figure 2c- Groundwater Gradient Map, - 09/20/2008

Talon/LPE # : PLAINS046SPL

TALON LPE

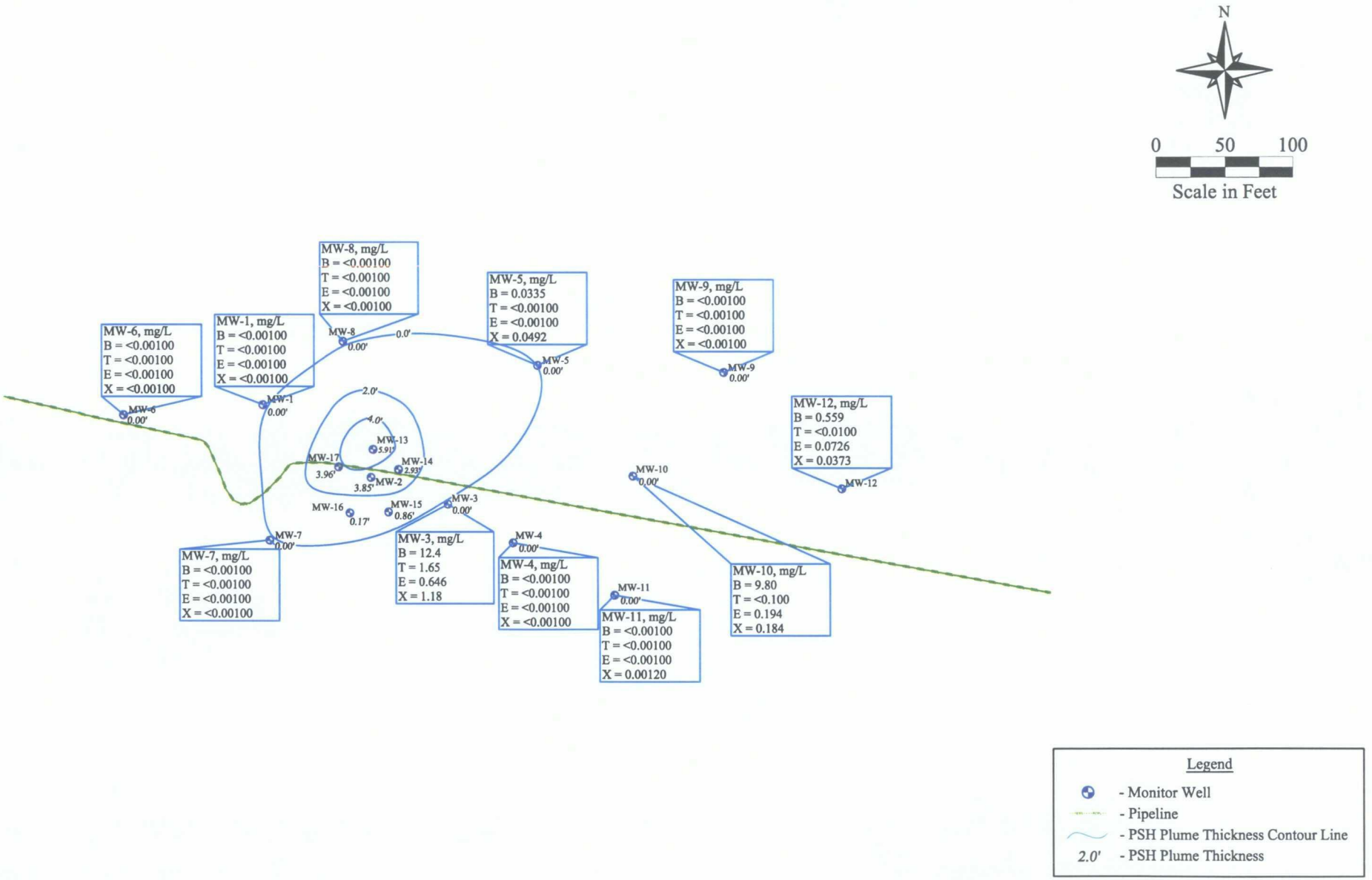
Date: 03/17/2009
Scale: 1" = 80'
Drawn By: SJA

Lovington Deep 6"

SRS # 2002-10312, NMOCD REF. # AP-0029

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico

Figure 2d- Groundwater Gradient Map, - 12/23/2008



Talon/LPE # : PLAINS046SPL

TALON LPE

Date: 03/25/2009

Scale: 1" = 100'

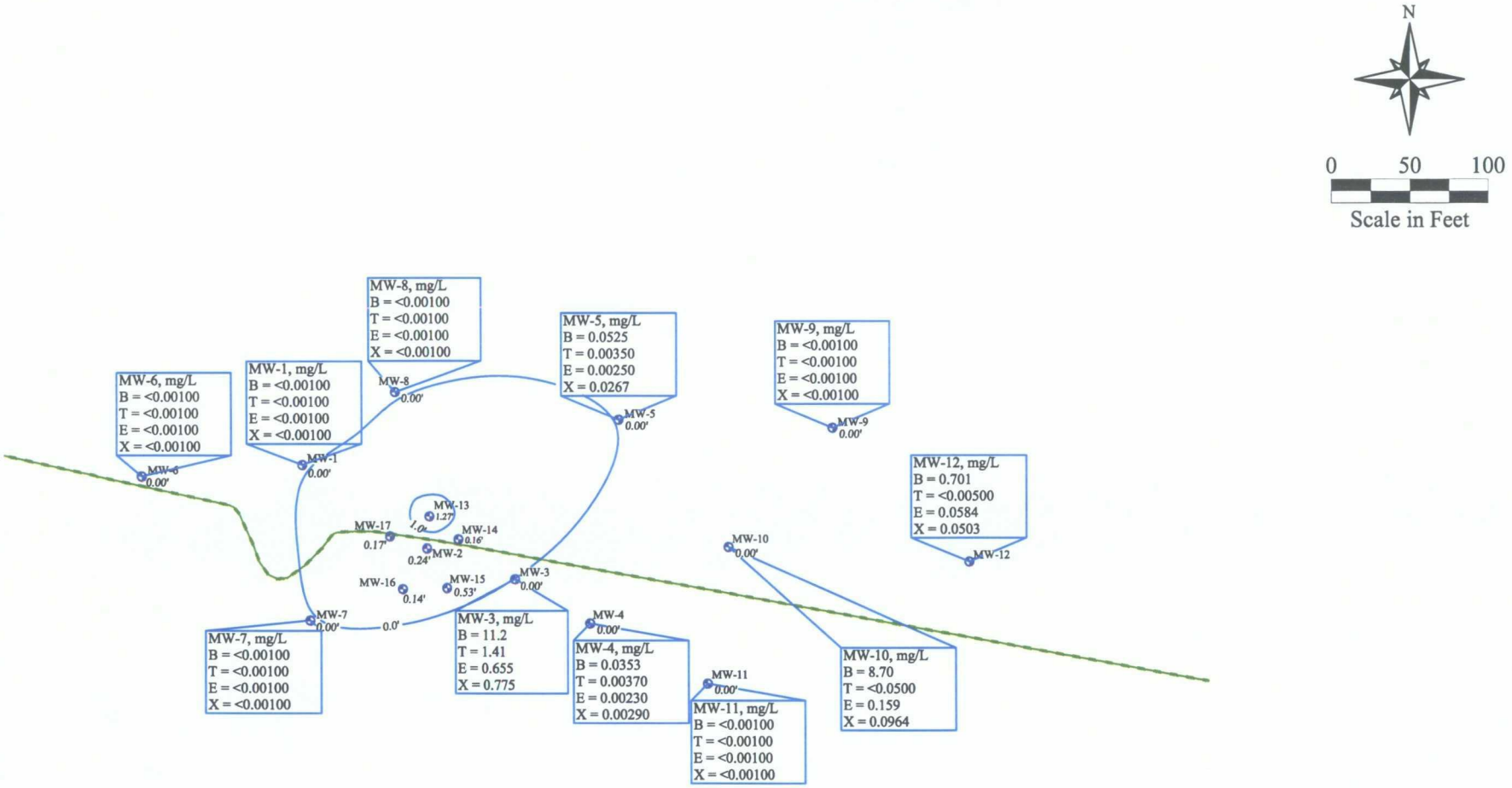
Drawn By: SJA

Lovington Deep 6"

SRS # 2002-10312, NMOCD REF. # AP-0029

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico

Figure 3a- PSH Thickness & Groundwater Concentration Map - 03/18/2008



Talon/LPE # : PLAINS046SPL

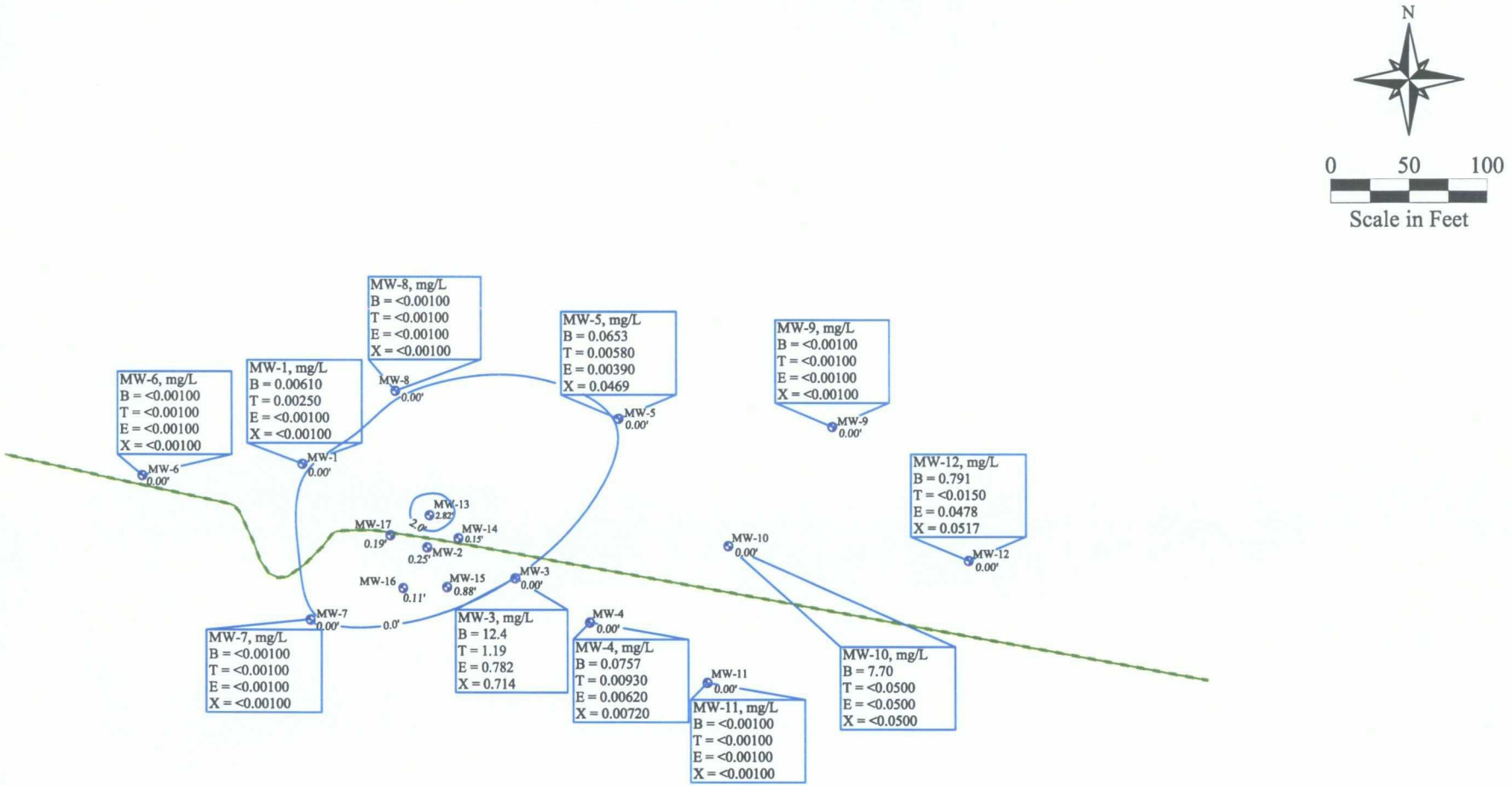
Date:	03/25/2009
Scale:	1" = 100'
Drawn By:	SJA

Lovington Deep 6"

SRS # 2002-10312, NMOCD REF. # AP-0029

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico

Figure 3b- PSH Thickness & Groundwater Concentration Map - 06/26/2008



Talon/LPE # : PLAINS046SPL

TALON LPE

Date: 03/25/2009

Scale: 1" = 100'

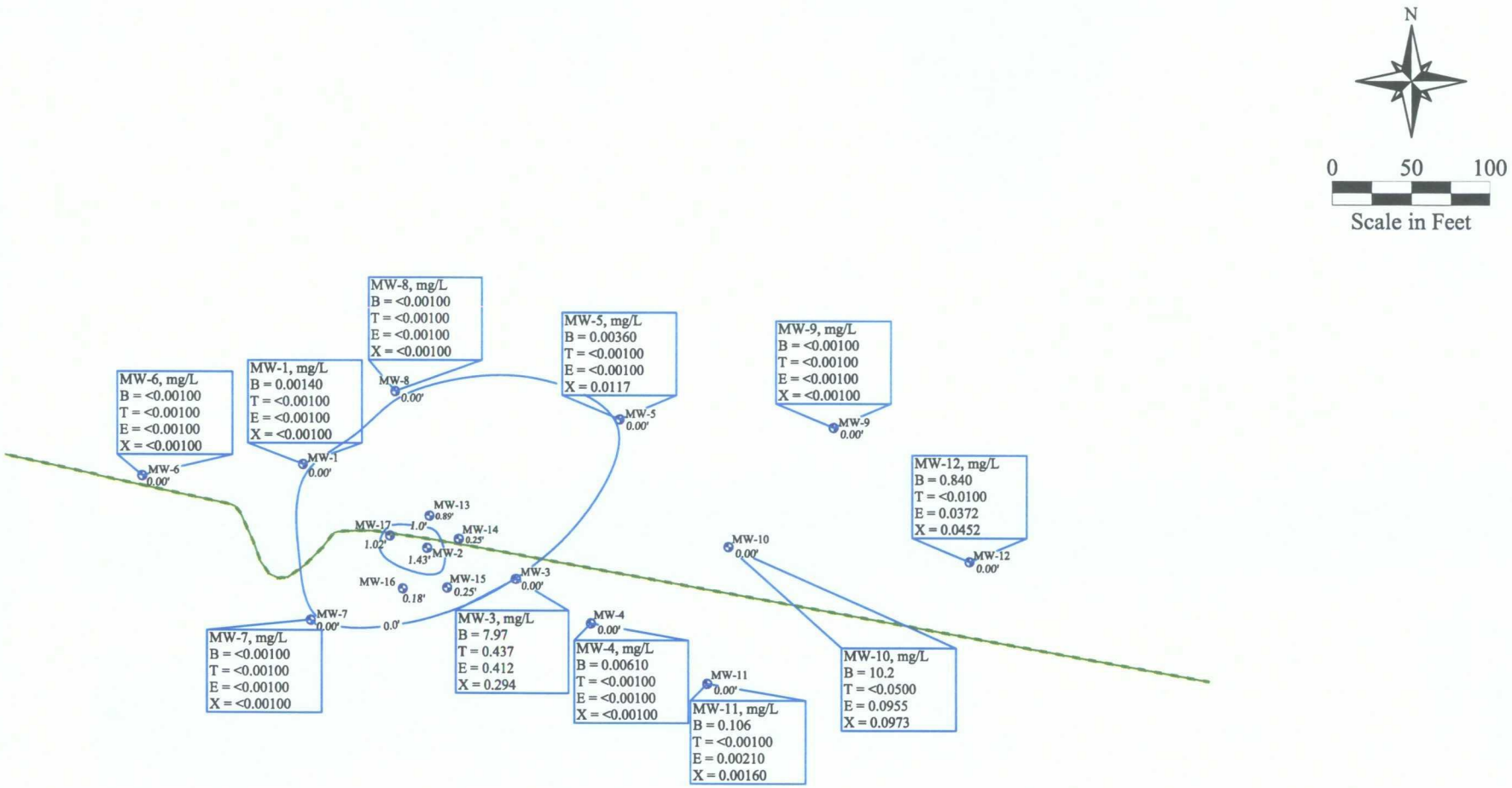
Drawn By: SJA

Lovington Deep 6"

SRS # 2002-10312, NMOCD REF. # AP-0029

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico

Figure 3c - PSH Thickness & Groundwater Concentration Map - 09/20/2008



Talon/LPE # : PLAINS046SPL

TALON LPE

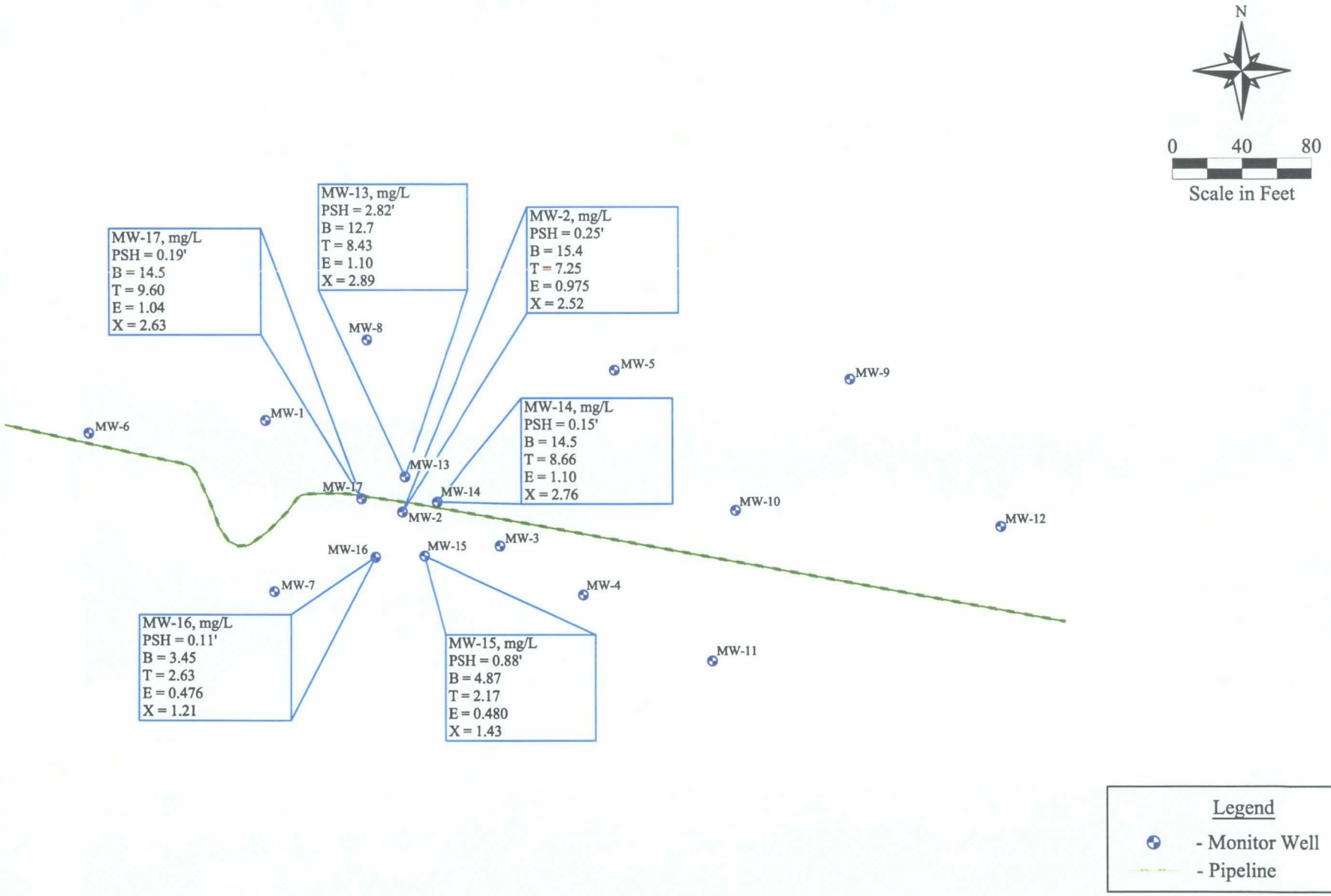
Date: 03/25/2009
Scale: 1" = 100'
Drawn By: SJA

Lovington Deep 6"

SRS # 2002-10312, NMOCD REF. # AP-0029

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico

Figure 3d - PSH Thickness & Groundwater Concentration Map - 12/23/2008



TALON LPE

Date:	03/23/2009
Scale:	1" = 80'
Drawn By:	SJA

Lovington Deep 6"

SRS # 2002-10312, NMOCD REF. # AP-0029

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico

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

APPENDIX B

Tables

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-1	03/04/03	3,915.51		63.81	3,851.70	
	09/18/03			63.95	3,851.56	
	11/10/03			63.97	3,851.54	
	04/14/04			64.04	3,851.47	
	05/06/04			64.01	3,851.50	
	06/04/04			64.04	3,851.47	
	06/16/04			64.05	3,851.46	
	07/09/04			64.03	3,851.48	
	07/20/04			64.04	3,851.47	
	09/10/04			64.08	3,851.43	
	09/23/04			64.04	3,851.47	
	10/01/04			63.43	3,852.08	
	10/21/04			63.60	3,851.91	
	11/03/04			63.70	3,851.81	
	11/18/04			63.72	3,851.79	
	12/13/04			63.50	3,852.01	
	12/20/04			63.56	3,851.95	
	01/10/05			63.51	3,852.00	
	01/25/05			63.49	3,852.02	
	02/18/05			63.51	3,852.00	
	03/30/05			63.42	3,852.09	
	05/03/05			63.43	3,852.08	
	05/20/05			63.40	3,852.11	
	08/23/05			63.38	3,852.13	
	11/22/05			63.40	3,852.11	
	01/16/06			63.38	3,852.13	
	02/17/06			63.39	3,852.12	
	03/17/06			63.33	3,852.18	
	03/24/06			63.31	3,852.20	
	05/12/06			63.54	3,851.97	
	05/30/06			63.47	3,852.04	
	06/09/06			63.31	3,852.20	
	07/07/06			63.49	3,852.02	
	07/14/06			63.49	3,852.02	
	08/08/06			63.35	3,852.16	
	08/25/06			63.58	3,851.93	
	09/15/06			63.41	3,852.10	
	09/29/06			63.47	3,852.04	
	10/13/06			63.41	3,852.10	
	10/20/06			63.41	3,852.10	
	10/27/06			63.49	3,852.02	
	11/10/06			63.48	3,852.03	
	11/20/06			63.48	3,852.03	

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-1 (cont.)	12/01/06			63.50	3,852.01	
	12/08/06			63.50	3,852.01	
	12/15/06			63.51	3,852.00	
	12/27/06			63.57	3,851.94	
	01/05/07			63.55	3,851.96	
	01/15/07			63.58	3,851.93	
	01/29/07			63.59	3,851.92	
	02/08/07			63.33	3,852.18	
	02/20/07			63.65	3,851.86	
	03/06/07			63.05	3,852.46	
	03/15/07			63.64	3,851.87	
	04/04/07			63.44	3,852.07	
	04/11/07			63.55	3,851.96	
	04/18/07			63.55	3,851.96	
	04/24/07			63.65	3,851.86	
	05/22/07			63.67	3,851.84	
	06/19/07			63.94	3,851.57	
	08/08/07			63.65	3,851.86	
	08/17/07			63.68	3,851.83	
	08/24/07			63.67	3,851.84	
	09/19/07			63.96	3,851.55	
	10/03/07			63.98	3,851.53	
	11/15/07			63.74	3,851.77	
	12/04/07			63.80	3,851.71	
	03/18/08			63.88	3,851.63	
	04/11/08			63.88	3,851.63	
	05/09/08			64.88	3,850.63	
	06/03/08			63.90	3,851.61	
	06/26/08			63.95	3,851.56	
	08/28/08			63.98	3,851.53	
	09/20/08			64.03	3,851.48	
	10/29/08			64.03	3,851.48	
	12/23/08			64.04	3,851.47	
MW-2	03/04/03	3,915.04				
	06/17/03		62.29	70.02	3,851.98	7.73
	08/14/03		62.34	70.04	3,851.93	7.70
	08/28/03		62.50	69.94	3,851.80	7.44
	09/18/03		62.51	69.95	3,851.79	7.44
	10/13/03		62.50	69.96	3,851.79	7.46
	10/24/03		62.35	70.05	3,851.92	7.70
	11/10/03		62.45	69.59	3,851.88	7.14
	11/17/03		62.38	69.98	3,851.90	7.60

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-2 (cont.)	11/18/03		62.95	67.37	3,851.65	4.42
	12/04/03		62.57	69.75	3,851.75	7.18
	02/09/04		62.45	69.87	3,851.85	7.42
	03/15/04		62.42	69.95	3,851.87	7.53
	03/25/04		62.43	69.95	3,851.86	7.52
	04/14/04		62.68	69.42	3,851.69	6.74
	05/06/04		62.75	70.31	3,851.53	7.56
	06/04/04		62.77	70.33	3,851.51	7.56
	06/16/04		62.73	69.51	3,851.63	6.78
	07/09/04		62.40	69.97	3,851.88	7.57
	07/20/04		63.20	68.95	3,851.27	5.75
	09/10/04		62.52	69.70	3,851.80	7.18
	09/23/04		62.49	69.69	3,851.83	7.20
	10/01/04		60.50	71.07	3,853.48	10.57
	10/21/04		61.96	68.57	3,852.42	6.61
	11/03/04		62.27	68.22	3,852.18	5.95
	11/18/04		62.43	67.81	3,852.07	5.38
	12/13/04		62.05	68.29	3,852.37	6.24
	12/20/04		62.04	68.31	3,852.37	6.27
	01/10/05		62.11	68.29	3,852.31	6.18
	01/25/05		62.10	68.21	3,852.33	6.11
	02/18/05		62.06	68.27	3,852.36	6.21
	03/30/05		62.02	68.30	3,852.39	6.28
	05/03/05		62.04	68.24	3,852.38	6.20
	05/20/05		62.03	68.16	3,852.40	6.13
	08/23/05		61.94	68.23	3,852.47	6.29
	11/22/05		62.05	68.20	3,852.38	6.15
	12/08/05		61.99	68.25	3,852.42	6.26
	01/16/06		62.00	68.20	3,852.42	6.20
	02/17/06		62.15	67.60	3,852.35	5.45
	03/03/06		62.06	68.00	3,852.39	5.94
	03/10/06		62.05	67.87	3,852.41	5.82
	03/17/06		62.12	67.71	3,852.36	5.59
	03/24/06		62.05	67.95	3,852.40	5.90
	03/31/06		62.07	67.91	3,851.89	5.29
	04/07/06		62.11	67.89	3,852.35	5.78
	04/13/06		62.11	67.80	3,852.36	5.69
	04/21/06		62.12	67.86	3,852.35	5.74
	04/28/06		62.09	67.91	3,852.47	5.82
	05/05/06		62.14	67.77	3,852.34	5.63
	05/12/06		62.14	67.81	3,852.33	5.67
	05/19/06		62.11	67.97	3,852.34	5.86
	05/30/06		62.01	67.99	3,852.43	5.98

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-2 (cont.)	06/02/06		62.00	67.83	3,852.46	5.83
	06/09/06		62.04	67.81	3,852.42	5.77
	06/16/05		62.11	67.91	3,852.35	5.80
	06/30/06		62.05	67.97	3,852.40	5.92
	07/07/06		62.07	67.96	3,852.38	5.89
	07/14/06		62.08	67.96	3,852.37	5.88
	07/21/06		62.06	68.01	3,852.38	5.95
	07/28/06		62.15	67.98	3,852.31	5.83
	08/25/06		62.05	68.02	3,852.39	5.97
	09/15/06		62.07	68.04	3,852.37	5.97
	09/22/06		62.10	68.11	3,851.51	5.09
	09/29/06		62.11	67.91	3,852.35	5.80
	10/06/06		62.16	67.91	3,852.31	5.75
	10/13/06		62.11	68.02	3,852.34	5.91
	10/20/06		62.25	67.87	3,852.23	5.62
	10/27/06		62.09	67.97	3,852.36	5.88
	11/03/06		62.09	67.97	3,852.36	5.88
	11/10/06		62.17	68.09	3,852.28	5.92
	11/20/06		62.17	67.95	3,852.29	5.78
	12/01/06		62.20	68.08	3,852.25	5.88
	12/08/06		62.20	68.08	3,852.25	5.88
	12/15/06		62.21	68.02	3,852.25	5.81
	12/27/06		62.19	68.27	3,852.24	6.08
	01/05/07		62.21	68.46	3,852.21	6.25
	01/15/07		62.21	68.91	3,852.16	6.70
	01/29/07		63.01	68.05	3,851.53	5.04
	02/08/07		62.25	68.07	3,852.21	5.82
	02/20/07		62.33	68.35	3,852.11	6.02
	03/06/07		62.37	68.41	3,852.07	6.04
	03/15/07		62.30	68.21	3,852.15	5.91
	04/04/07		63.58	68.25	3,850.99	4.67
	04/11/07		62.34	68.31	3,852.10	5.97
	04/18/07		62.34	68.31	3,852.10	5.97
	04/24/07		62.36	68.13	3,852.10	5.77
	05/22/07		62.33	63.28	3,852.62	0.95
	06/19/07		62.40	68.30	3,852.05	5.90
	08/08/07		62.36	68.32	3,852.08	5.96
	08/17/07		62.34	68.21	3,852.11	5.87
	08/24/07		62.37	68.12	3,852.10	5.75
	09/19/07		62.36	68.24	3,852.09	5.88
	10/03/07		62.41	68.32	3,852.04	5.91
	10/11/07		62.45	68.22	3,852.01	5.77
	10/18/07		62.44	68.17	3,852.03	5.73

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
	12/03/07		62.44	68.36	3,852.01	5.92
	01/02/08		62.59	68.46	3,851.86	5.87
	02/07/08		62.63	68.58	3,851.82	5.95
	02/11/08		62.64	68.60	3,851.80	5.96
	03/18/08		63.03	66.88	3,851.63	3.85
	04/02/08		63.24	66.14	3,851.51	2.90
	04/11/08		63.56	63.93	3,851.44	0.37
	04/14/08		63.77	64.00	3,851.25	0.23
	04/29/08		63.78	64.04	3,851.23	0.26
	05/07/08		63.82	64.03	3,851.20	0.21
MW-2	05/12/08		63.81	64.03	3,851.21	0.22
(cont.)	06/03/08		63.92	64.18	3,851.09	0.26
	06/26/08		64.07	64.31	3,850.95	0.24
	07/23/08		63.76	64.02	3,851.25	0.26
	08/28/08		63.71	63.95	3,851.31	0.24
	09/20/08		63.74	63.99	3,851.28	0.25
	10/29/08		63.35	65.79	3,851.45	2.44
	12/23/08		63.53	64.96	3,851.37	1.43
MW-3	03/04/03	3,915.24		64.01	3,851.23	
	09/18/03			64.14	3,851.10	
	11/10/03			64.15	3,851.09	
	04/14/04			64.20	3,851.04	
	05/06/04			64.20	3,851.04	
	06/04/04			64.23	3,851.01	
	06/16/04			64.24	3,851.00	
	07/09/04			64.23	3,851.01	
	07/20/04			64.23	3,851.01	
	09/10/04			64.25	3,850.99	
	09/23/04			64.25	3,850.99	
	10/01/04			63.41	3,851.83	
	10/21/04			63.71	3,851.53	
	11/03/04			63.83	3,851.41	
	11/18/04			63.84	3,851.40	
	12/13/04			63.65	3,851.59	
	12/20/04			63.73	3,851.51	
	01/10/05			63.70	3,851.54	
	01/25/05			63.64	3,851.60	
	02/18/05			63.67	3,851.57	
	03/30/05			63.54	3,851.70	
	05/03/05			63.59	3,851.65	
	05/20/05			63.56	3,851.68	
	08/23/05			63.51	3,851.73	

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-3 (cont.)	11/22/05			63.50	3,851.74	
	01/16/06			63.55	3,851.69	
	02/17/06			63.58	3,851.66	
	03/17/06			63.58	3,851.66	
	03/24/06			63.59	3,851.65	
	04/13/06			63.60	3,851.64	
	05/12/06			63.62	3,851.62	
	05/30/06			63.68	3,851.56	
	06/09/06			63.58	3,851.66	
	07/07/06			63.69	3,851.55	
	07/14/06			63.70	3,851.54	
	08/08/06			63.49	3,851.75	
	08/25/06			63.79	3,851.45	
	09/15/06			63.54	3,851.70	
	09/29/06			63.61	3,851.63	
	10/13/06			63.59	3,851.65	
	10/20/06			63.55	3,851.69	
	10/27/06			63.64	3,851.60	
	11/10/06			62.63	3,852.61	
	11/20/06			63.64	3,851.60	
	12/01/06			63.74	3,851.50	
	12/08/06			63.72	3,851.52	
	12/15/06			63.75	3,851.49	
	12/27/06			63.77	3,851.47	
	01/05/07			63.77	3,851.47	
	01/15/07			63.78	3,851.46	
	01/29/07			63.76	3,851.48	
	02/08/07			63.48	3,851.76	
	02/20/07			63.79	3,851.45	
	03/06/07			63.79	3,851.45	
	03/15/07			63.78	3,851.46	
	04/04/07			63.50	3,851.74	
	04/11/07			63.78	3,851.46	
	04/18/07			63.85	3,851.39	
	04/24/07			63.82	3,851.42	
	05/22/07			63.83	3,851.41	
	06/19/07			63.79	3,851.45	
	08/08/07			63.80	3,851.44	
	08/17/07			63.82	3,851.42	
	08/24/07			63.82	3,851.42	
	09/19/07			63.84	3,851.40	
	10/03/07			63.81	3,851.43	
	12/03/07			63.98	3,851.26	

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-3 (cont.)	03/18/08			64.04	3,851.20	
	04/11/08			64.05	3,851.19	
	05/09/08			64.06	3,851.18	
	06/03/08			64.08	3,851.16	
	06/26/08			64.13	3,851.11	
	08/28/08			64.16	3,851.08	
	09/20/08			64.21	3,851.03	
	10/29/08			64.20	3,851.04	
	12/23/08			64.21	3,851.03	
MW-4	03/04/03	3,915.30		64.25	3,851.05	
	09/18/03			64.35	3,850.95	
	11/10/03			64.38	3,850.92	
	04/14/04			64.43	3,850.87	
	05/06/04			64.41	3,850.89	
	06/04/04			64.47	3,850.83	
	06/16/04			64.47	3,850.83	
	07/09/04			64.47	3,850.83	
	07/20/04			64.45	3,850.85	
	09/10/04			64.48	3,850.82	
	09/23/04			64.53	3,850.77	
	10/01/04			63.95	3,851.35	
	10/21/04			64.05	3,851.25	
	11/03/04			64.11	3,851.19	
	11/18/04			64.13	3,851.17	
	12/13/04			63.93	3,851.37	
	12/20/04			64.01	3,851.29	
	01/10/05			63.96	3,851.34	
	01/25/05			63.92	3,851.38	
	02/18/05			63.95	3,851.35	
	03/30/05			63.85	3,851.45	
	05/03/05			63.82	3,851.48	
	05/20/05			63.82	3,851.48	
	08/23/05			63.48	3,851.82	
	11/22/05			63.72	3,851.58	
	01/16/06			63.81	3,851.49	
	02/17/06			63.80	3,851.50	
	03/17/06			63.81	3,851.49	
	03/24/06			63.80	3,851.50	
	05/12/06			63.79	3,851.51	
	05/30/06			63.84	3,851.46	
	06/09/06			63.81	3,851.49	
	07/07/06			63.87	3,851.43	

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-4 (cont.)	07/14/06			63.87	3,851.43	
	08/08/06			63.72	3,851.58	
	08/25/06			63.96	3,851.34	
	09/15/06			63.81	3,851.49	
	09/29/06			63.84	3,851.46	
	10/13/06			63.81	3,851.49	
	10/20/06			63.77	3,851.53	
	10/27/06			63.90	3,851.40	
	11/10/06			63.88	3,851.42	
	11/20/06			63.89	3,851.41	
	12/01/06			63.94	3,851.36	
	12/08/06			63.93	3,851.37	
	12/15/06			63.93	3,851.37	
	12/27/06			63.98	3,851.32	
	01/05/07			63.98	3,851.32	
	01/15/07			64.02	3,851.28	
	01/29/07			63.98	3,851.32	
	02/08/07			63.70	3,851.60	
	02/20/07			64.02	3,851.28	
	03/06/07			63.96	3,851.34	
	03/15/07			64.05	3,851.25	
	04/04/07			63.82	3,851.48	
	04/11/07			64.05	3,851.25	
	04/18/07			64.05	3,851.25	
	04/24/07			64.04	3,851.26	
	05/22/07			64.05	3,851.25	
	06/19/07			64.04	3,851.26	
	08/08/07			64.02	3,851.28	
	08/17/07			64.04	3,851.26	
	08/24/07			64.03	3,851.27	
	09/19/07			64.06	3,851.24	
	10/03/07			64.08	3,851.22	
	12/03/07			64.18	3,851.12	
	03/18/08			64.27	3,851.03	
	04/11/08			64.26	3,851.04	
	05/09/08			64.27	3,851.03	
	06/03/08			64.28	3,851.02	
	06/26/08			64.36	3,850.94	
	08/28/08			64.37	3,850.93	
	09/20/08			64.43	3,850.87	
	10/29/08			64.41	3,850.89	
	12/23/08			64.42	3,850.88	

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-5	03/04/03	3,915.26		64.21	3,851.05	
	09/18/03			64.39	3,850.87	
	11/10/03			64.42	3,850.84	
	04/14/04			64.46	3,850.80	
	05/06/04			64.45	3,850.81	
	06/04/04			64.46	3,850.80	
	06/16/04			64.49	3,850.77	
	07/09/04			64.45	3,850.81	
	07/20/04			64.47	3,850.79	
	09/10/04			64.51	3,850.75	
	09/23/04			64.53	3,850.73	
	10/01/04			64.02	3,851.24	
	10/21/04			64.04	3,851.22	
	11/03/04			64.13	3,851.13	
	11/18/04			64.19	3,851.07	
	12/13/04			63.91	3,851.35	
	12/20/04			63.94	3,851.32	
	01/10/05			63.94	3,851.32	
	01/25/05			63.88	3,851.38	
	02/18/05			63.90	3,851.36	
	03/30/05			63.81	3,851.45	
	05/03/05			63.83	3,851.43	
	05/20/05			63.79	3,851.47	
	08/23/05			63.75	3,851.51	
	11/22/05			63.80	3,851.46	
	01/16/06			63.80	3,851.46	
	02/17/06			63.83	3,851.43	
	03/17/06			63.78	3,851.48	
	03/24/05			63.77	3,851.49	
	04/13/06			63.81	3,851.45	
	05/12/06			63.81	3,851.45	
	05/30/06			63.82	3,851.44	
	06/09/06			63.77	3,851.49	
	07/07/06			63.86	3,851.40	
	07/14/06			63.87	3,851.39	
	08/08/06			63.77	3,851.49	
	08/25/06			63.95	3,851.31	
	09/15/06			63.81	3,851.45	
	09/29/06			63.87	3,851.39	
	10/13/06			63.85	3,851.41	
	10/20/06			63.81	3,851.45	
	10/27/06			63.91	3,851.35	
	11/10/06			63.90	3,851.36	

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-5 (cont.)	11/20/06			63.88	3,851.38	
	12/01/06			63.92	3,851.34	
	12/08/06			63.90	3,851.36	
	12/15/06			63.93	3,851.33	
	12/27/06			63.95	3,851.31	
	01/05/07			63.96	3,851.30	
	01/15/07			63.99	3,851.27	
	01/29/07			63.99	3,851.27	
	02/08/07			63.75	3,851.51	
	02/20/07			64.09	3,851.17	
	03/06/07			64.02	3,851.24	
	03/15/07			64.05	3,851.21	
	04/04/07			63.86	3,851.40	
	04/11/07			64.06	3,851.20	
	04/18/07			64.07	3,851.19	
	04/24/07			63.82	3,851.44	
	05/22/07			64.08	3,851.18	
	06/19/07			64.04	3,851.22	
	08/08/07			64.04	3,851.22	
	08/17/07			64.08	3,851.18	
	08/24/07			64.08	3,851.18	
	09/19/07			64.09	3,851.17	
	10/03/07			64.11	3,851.15	
	11/15/07			64.21	3,851.05	
	12/03/07			64.22	3,851.04	
	03/18/08			64.31	3,850.95	
	04/11/08			64.31	3,850.95	
	05/09/08			64.33	3,850.93	
	06/03/08			64.33	3,850.93	
	06/26/08			64.39	3,850.87	
	08/28/08			64.42	3,850.84	
	09/20/08			64.46	3,850.80	
	10/29/08			64.47	3,850.79	
	12/23/08			64.47	3,850.79	
MW-6	11/18/04	3,915.45				
	12/13/04			63.26	3,852.19	
	12/20/04			63.32	3,852.13	
	01/10/05			63.30	3,852.15	
	01/25/05			63.23	3,852.22	
	02/18/05			63.27	3,852.18	
	03/30/05			63.18	3,852.27	
	05/03/05			63.19	3,852.26	

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-6 (cont.)	05/20/05			63.14	3,852.31	
	08/23/05			63.12	3,852.33	
	11/22/05			63.14	3,852.31	
	01/16/06			63.15	3,852.30	
	02/17/06			63.15	3,852.30	
	03/17/06			63.12	3,852.33	
	03/24/06			63.11	3,852.34	
	04/13/06			63.15	3,852.30	
	05/12/06			63.19	3,852.26	
	05/30/06			63.19	3,852.26	
	06/09/06			63.10	3,852.35	
	07/07/06			63.20	3,852.25	
	07/14/06			63.21	3,852.24	
	08/08/06			63.08	3,852.37	
	08/25/06			63.28	3,852.17	
	09/15/06			63.17	3,852.28	
	09/29/06			63.20	3,852.25	
	10/13/06			63.14	3,852.31	
	10/20/06			63.15	3,852.30	
	10/27/06			63.22	3,852.23	
	11/10/06			63.22	3,852.23	
	11/20/06			63.23	3,852.22	
	12/01/06			63.29	3,852.16	
	12/08/06			63.29	3,852.16	
	12/27/06			63.33	3,852.12	
	01/05/07			63.35	3,852.10	
	01/15/07			63.37	3,852.08	
	01/29/07			63.35	3,852.10	
	02/08/07			63.07	3,852.38	
	02/20/07			63.34	3,852.11	
	03/06/07			63.35	3,852.10	
	03/15/07			63.38	3,852.07	
	04/04/07			63.18	3,852.27	
	04/11/07			63.40	3,852.05	
	04/18/07			63.40	3,852.05	
	04/24/07			63.40	3,852.05	
	05/22/07			63.40	3,852.05	
	06/19/07			63.39	3,852.06	
	08/08/07			63.39	3,852.06	
	08/17/07			63.41	3,852.04	
	08/24/07			63.39	3,852.06	
	09/19/07			63.43	3,852.02	
	10/03/07			63.42	3,852.03	

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-6 (cont.)	11/15/07			63.50	3,851.95	
	12/03/07			63.52	3,851.93	
	03/18/08			63.61	3,851.84	
	04/11/08			63.62	3,851.83	
	05/09/08			63.64	3,851.81	
	06/03/08			63.64	3,851.81	
	06/26/08			63.69	3,851.76	
	08/28/08			63.72	3,851.73	
	09/20/08			63.77	3,851.68	
	10/29/08			63.79	3,851.66	
	12/23/08			63.78	3,851.67	
MW-7	11/18/04	3,914.73				
	12/13/04			62.94	3,851.79	
	12/20/04			63.00	3,851.73	
	01/10/05			62.98	3,851.75	
	01/25/05			62.92	3,851.81	
	02/18/05			62.94	3,851.79	
	03/30/05			62.85	3,851.88	
	05/03/05			62.84	3,851.89	
	05/20/05			62.81	3,851.92	
	08/23/05			62.80	3,851.93	
	11/22/05			62.78	3,851.95	
	01/16/06			62.81	3,851.92	
	02/17/06			62.81	3,851.92	
	03/17/06			62.80	3,851.93	
	03/24/06			62.81	3,851.92	
	04/13/06			62.81	3,851.92	
	05/12/06			63.84	3,850.89	
	05/30/06			62.85	3,851.88	
	06/09/06			62.80	3,851.93	
	07/07/06			62.89	3,851.84	
	07/14/06			62.90	3,851.83	
	08/08/06			62.76	3,851.97	
	08/25/06			62.99	3,851.74	
	09/15/06			62.85	3,851.88	
	09/29/06			62.87	3,851.86	
	10/13/06			62.78	3,851.95	
	10/20/06			62.81	3,851.92	
	10/27/06			63.10	3,851.63	
	11/10/06			62.89	3,851.84	
	11/20/06			62.88	3,851.85	
	12/01/06			63.05	3,851.68	

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
	12/08/06			63.91	3,850.82	
	12/15/06			62.93	3,851.80	
MW-7	12/27/06			63.98	3,850.75	
(cont.)	01/05/07			63.98	3,850.75	
	01/15/07			62.99	3,851.74	
	01/29/07			63.00	3,851.73	
	02/08/07			62.74	3,851.99	
	02/20/07			63.02	3,851.71	
	03/06/07			63.10	3,851.63	
	03/15/07			63.02	3,851.71	
	04/01/07			62.86	3,851.87	
	04/11/07			63.03	3,851.70	
	04/18/07			63.06	3,851.67	
	04/24/07			63.05	3,851.68	
	05/22/07			63.08	3,851.65	
	06/19/07			63.05	3,851.68	
	08/08/07			63.06	3,851.67	
	08/17/07			63.02	3,851.71	
	08/24/07			63.06	3,851.67	
	09/19/07			63.08	3,851.65	
	10/03/07			63.10	3,851.63	
	11/15/07			63.17	3,851.56	
	12/03/07			63.19	3,851.54	
	03/18/08			63.29	3,851.44	
	04/11/08			63.30	3,851.43	
	05/09/08			63.30	3,851.43	
	06/03/08			63.33	3,851.40	
	06/26/08			63.37	3,851.36	
	08/28/08			63.40	3,851.33	
	09/20/08			63.45	3,851.28	
	10/29/08			63.47	3,851.26	
	12/23/08			63.46	3,851.27	
MW-8	11/18/04	3,915.19		63.64	3,851.55	
	12/13/04			63.45	3,851.74	
	12/20/04			63.50	3,851.69	
	01/10/05			63.49	3,851.70	
	01/25/05			63.43	3,851.76	
	02/18/05			63.47	3,851.72	
	03/30/05			63.37	3,851.82	
	05/03/05			63.38	3,851.81	
	05/20/05			63.36	3,851.83	
	08/23/05			63.34	3,851.85	

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-8 (cont.)	11/22/05			63.35	3,851.84	
	01/16/06			63.37	3,851.82	
	02/17/06			63.38	3,851.81	
	03/17/06			63.35	3,851.84	
	03/24/06			63.34	3,851.85	
	04/13/06			63.39	3,851.80	
	05/12/06			63.35	3,851.84	
	05/30/06			63.40	3,851.79	
	06/09/06			63.34	3,851.85	
	07/07/06			63.44	3,851.75	
	07/14/06			63.43	3,851.76	
	08/08/06			63.31	3,851.88	
	08/25/06			63.56	3,851.63	
	09/15/06			63.38	3,851.81	
	09/22/06			63.42	3,851.77	
	10/13/06			63.41	3,851.78	
	10/20/06			67.37	3,847.82	
	10/27/06			63.46	3,851.73	
	11/10/06			63.46	3,851.73	
	11/20/06			62.44	3,852.75	
	12/01/06			63.48	3,851.71	
	12/08/06			63.46	3,851.73	
	12/15/06			63.48	3,851.71	
	12/27/06			63.51	3,851.68	
	01/05/07			63.51	3,851.68	
	01/15/07			63.54	3,851.65	
	01/29/07			63.56	3,851.63	
	02/08/07			63.30	3,851.89	
	02/20/07			63.57	3,851.62	
	03/06/07			63.58	3,851.61	
	03/15/07			63.60	3,851.59	
	04/04/07			63.40	3,851.79	
	04/11/07			63.90	3,851.29	
	04/18/07			63.62	3,851.57	
	04/24/07			63.62	3,851.57	
	05/22/07			63.64	3,851.55	
	06/19/07			63.60	3,851.59	
	08/08/07			63.60	3,851.59	
	08/17/07			63.64	3,851.55	
	08/24/07			63.63	3,851.56	
	09/19/07			63.66	3,851.53	
	10/03/07			63.67	3,851.52	
	11/15/07			63.41	3,851.78	

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
	12/03/07			63.76	3,851.43	
	03/18/08			63.85	3,851.34	
MW-8	04/11/08			63.85	3,851.34	
(cont.)	05/09/08			63.86	3,851.33	
	06/03/08			63.88	3,851.31	
	06/26/08			63.93	3,851.26	
	08/28/08			63.95	3,851.24	
	09/20/08			64.00	3,851.19	
	10/29/08			64.02	3,851.17	
	12/23/08			64.02	3,851.17	
MW-9	11/18/04	3,913.92		63.48	3,850.44	
	12/13/04			63.29	3,850.63	
	12/20/04			63.32	3,850.60	
	01/10/05			63.30	3,850.62	
	01/25/05			63.27	3,850.65	
	02/18/05			63.23	3,850.69	
	03/30/05			63.19	3,850.73	
	05/03/05			63.21	3,850.71	
	05/20/05			63.18	3,850.74	
	08/23/05			63.13	3,850.79	
	11/22/05			63.20	3,850.72	
	01/16/06			63.17	3,850.75	
	02/17/06			62.68	3,851.24	
	03/17/06			62.65	3,851.27	
	03/24/06			62.66	3,851.26	
	04/13/06			63.19	3,850.73	
	05/12/06			63.22	3,850.70	
	05/30/06			63.14	3,850.78	
	06/09/06			62.64	3,851.28	
	07/07/06			63.26	3,850.66	
	07/14/06			63.27	3,850.65	
	08/08/06			63.16	3,850.76	
	08/25/06			63.37	3,850.55	
	09/15/06			63.19	3,850.73	
	09/29/06			63.25	3,850.67	
	10/13/06			63.23	3,850.69	
	10/20/06			63.20	3,850.72	
	10/27/06			63.29	3,850.63	
	11/10/06			62.79	3,851.13	
	11/20/06			63.27	3,850.65	
	12/01/06			63.31	3,850.61	
	12/08/06			63.29	3,850.63	

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-9 (cont.)	12/15/06			63.31	3,850.61	
	12/27/06			63.37	3,850.55	
	01/05/07			63.33	3,850.59	
	01/15/07			63.36	3,850.56	
	01/29/07			63.37	3,850.55	
	02/08/07			63.12	3,850.80	
	02/20/07			63.41	3,850.51	
	03/06/07			63.02	3,850.90	
	03/15/07			62.92	3,851.00	
	03/15/07			62.94	3,850.98	
	04/04/07			62.70	3,851.22	
	04/11/07			62.94	3,850.98	
	04/18/07			62.92	3,851.00	
	04/24/07			62.96	3,850.96	
	05/22/07			62.96	3,850.96	
	06/19/07			62.91	3,851.01	
	08/08/07			62.91	3,851.01	
	08/17/07			62.94	3,850.98	
	08/24/07			62.69	3,851.23	
	09/19/07			62.98	3,850.94	
	10/03/07			62.98	3,850.94	
	11/15/07			63.13	3,850.79	
	12/03/07			63.08	3,850.84	
	03/18/08			63.21	3,850.71	
	04/11/08			63.19	3,850.73	
	05/09/08			63.19	3,850.73	
	06/03/08			63.19	3,850.73	
	06/26/08			63.26	3,850.66	
	08/28/08			63.28	3,850.64	
	09/20/08			63.32	3,850.60	
	10/29/08			63.32	3,850.60	
	12/23/08			63.33	3,850.59	
MW-10	11/18/04	3,914.96		63.73	3,851.23	
	12/13/04			63.89	3,851.07	
	12/20/04			63.92	3,851.04	
	01/10/05			63.89	3,851.07	
	01/25/05			63.86	3,851.10	
	02/18/05			63.82	3,851.14	
	03/30/05			63.75	3,851.21	
	05/03/05			63.74	3,851.22	
	05/20/05			63.72	3,851.24	
	08/23/05			63.68	3,851.28	

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-10 (cont.)	11/22/05			63.40	3,851.56	
	01/16/06			63.73	3,851.23	
	02/17/06			63.75	3,851.21	
	03/17/06			63.71	3,851.25	
	03/24/06			63.70	3,851.26	
	04/13/06			63.72	3,851.24	
	05/12/06			63.74	3,851.22	
	05/30/06			63.75	3,851.21	
	06/09/06			63.69	3,851.27	
	07/07/06			63.79	3,851.17	
	07/14/06			63.78	3,851.18	
	08/08/06			63.68	3,851.28	
	08/25/06			63.92	3,851.04	
	09/15/06			63.72	3,851.24	
	09/29/06			63.77	3,851.19	
	10/13/06			63.71	3,851.25	
	10/20/06			63.72	3,851.24	
	10/27/06			63.81	3,851.15	
	11/10/06			63.80	3,851.16	
	12/01/06			63.83	3,851.13	
	12/08/06			63.81	3,851.15	
	12/15/06			63.84	3,851.12	
	12/27/06			63.84	3,851.12	
	01/05/07			63.86	3,851.10	
	01/15/07			63.90	3,851.06	
	01/29/07			63.90	3,851.06	
	02/08/07			63.65	3,851.31	
	02/20/07			63.95	3,851.01	
	03/06/07			63.92	3,851.04	
	03/15/07			63.96	3,851.00	
	04/04/07			63.75	3,851.21	
	04/11/07			63.96	3,851.00	
	04/18/07			63.96	3,851.00	
	04/24/07			63.97	3,850.99	
	05/22/07			63.99	3,850.97	
	06/19/07			63.96	3,851.00	
	08/08/07			63.97	3,850.99	
	08/17/07			63.98	3,850.98	
	08/24/07			63.99	3,850.97	
	09/19/07			63.99	3,850.97	
	10/03/07			64.02	3,850.94	
	11/15/07			64.09	3,850.87	
	12/03/07			64.12	3,850.84	

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-10 (cont.)	03/18/08			64.21	3,850.75	
	04/11/08			64.21	3,850.75	
	05/09/08			64.23	3,850.73	
	06/03/08			64.24	3,850.72	
	06/26/08			64.30	3,850.66	
	08/28/08			64.34	3,850.62	
	09/20/08			64.38	3,850.58	
	10/29/08			64.36	3,850.60	
	12/23/08			64.37	3,850.59	
MW-11	11/18/04	3,914.40				
	12/13/04			63.31	3,851.09	
	12/20/04			63.33	3,851.07	
	01/10/05			63.31	3,851.09	
	01/25/05			63.29	3,851.11	
	02/18/05			63.32	3,851.08	
	03/30/05			63.16	3,851.24	
	05/03/05			63.19	3,851.21	
	05/20/05			63.14	3,851.26	
	08/23/05			63.11	3,851.29	
	11/22/05			63.05	3,851.35	
	01/16/06			63.11	3,851.29	
	02/17/06			63.12	3,851.28	
	03/17/06			63.10	3,851.30	
	03/24/06			63.11	3,851.29	
	04/13/06			63.13	3,851.27	
	05/12/06			63.11	3,851.29	
	05/30/06			63.15	3,851.25	
	06/09/06			63.10	3,851.30	
	07/07/06			63.20	3,851.20	
	07/14/06			63.21	3,851.19	
	08/08/06			63.05	3,851.35	
	08/25/06			63.29	3,851.11	
	09/15/06			63.12	3,851.28	
	09/29/06			63.19	3,851.21	
	10/13/06			63.16	3,851.24	
	10/20/06			67.09	3,847.31	
	10/27/06			63.41	3,850.99	
	11/10/06			63.21	3,851.19	
	11/20/06			63.19	3,851.21	
	12/01/05			63.25	3,851.15	
	12/08/06			63.24	3,851.16	
	12/15/06			63.26	3,851.14	

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-11 (cont.)	12/27/06			63.29	3,851.11	
	01/05/07			63.23	3,851.17	
	01/15/07			63.28	3,851.12	
	01/29/07			63.28	3,851.12	
	02/08/07			63.02	3,851.38	
	02/20/07			63.31	3,851.09	
	03/06/07			63.36	3,851.04	
	03/15/07			63.31	3,851.09	
	04/04/07			63.11	3,851.29	
	04/11/07			63.35	3,851.05	
	04/18/07			63.35	3,851.05	
	04/24/07			63.35	3,851.05	
	05/22/07			63.36	3,851.04	
	06/19/07			63.33	3,851.07	
	08/08/07			63.34	3,851.06	
	08/17/07			63.36	3,851.04	
	08/24/07			63.36	3,851.04	
	09/19/07			63.88	3,850.52	
	10/03/07			63.39	3,851.01	
	11/15/07			63.47	3,850.93	
	12/03/07			63.52	3,850.88	
	03/18/08			63.59	3,850.81	
	04/11/08			63.59	3,850.81	
	05/09/08			63.61	3,850.79	
	06/03/08			63.62	3,850.78	
	06/26/08			63.68	3,850.72	
	08/28/08			63.70	3,850.70	
	09/20/08			63.76	3,850.64	
	10/29/08			63.74	3,850.66	
	12/23/08			63.75	3,850.65	
MW-12	07/07/06			63.34		
	07/14/06			63.35		
	07/21/06			63.37		
	07/27/06			63.33		
	08/08/06			63.21		
	08/25/06			63.48		
	09/15/06			63.27		
	10/13/06			63.31		
	10/20/06			63.28		
	10/27/06			63.37		
	11/10/06			63.36		
	11/20/06			63.34		

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
	12/01/06			63.40		
	12/08/06			63.35		
	12/15/06			63.38		
	12/27/06			63.40		
	01/05/07			63.41		
	01/15/07			63.48		
	01/29/07			63.46		
	02/08/07			63.22		
	02/20/07			63.50		
	03/06/07			63.47		
	03/15/07			63.51		
MW-12	04/04/07			63.32		
(cont.)	04/11/07			63.54		
	04/18/07			63.52		
	04/24/07			63.53		
	05/22/07			63.55		
	06/19/07			63.52		
	08/08/07	3,913.97		63.53	3,850.44	
	08/17/07			63.57	3,850.40	
	08/24/07			63.55	3,850.42	
	09/19/07			63.57	3,850.40	
	10/03/07			63.57	3,850.40	
	11/15/07			63.68	3,850.29	
	12/03/07			63.67	3,850.30	
	03/18/08			63.78	3,850.19	
	04/11/08			63.79	3,850.18	
	05/09/08			63.79	3,850.18	
	06/03/08			63.80	3,850.17	
	06/26/08			63.86	3,850.11	
	08/28/08			63.98	3,849.99	
	09/20/08			63.94	3,850.03	
	10/29/08			63.93	3,850.04	
	12/23/08			63.94	3,850.03	
MW-13	07/07/06		63.35	67.01		3.66
	07/14/06		63.37	67.00		3.63
	07/21/06		63.31	67.06		3.75
	07/28/06		63.28	67.23		3.95
	08/25/06		63.51	67.09		3.58
	09/15/06		62.79	68.96		6.17
	09/29/06		62.90	67.05		4.15
	10/06/06		63.10	68.07		4.97
	10/13/06		62.93	68.81		5.88

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-13 (cont.)	10/20/06		63.00	67.90		4.90
	10/27/06		62.97	67.77		4.80
	11/03/06		63.39	67.09		3.70
	11/10/06		62.97	67.80		4.83
	11/20/06		63.01	68.47		5.46
	12/01/06		62.94	68.90		5.96
	12/08/06		62.92	67.68		4.76
	12/15/06		63.11	68.33		5.22
	12/27/06		62.86	67.81		4.95
	01/05/07		62.87	67.79		4.92
	01/15/07		63.03	68.11		5.08
	01/29/07		63.08	69.00		5.92
	02/08/07		63.03	68.89		5.86
	02/20/07		63.10	69.09		5.99
	03/06/07		63.09	68.41		5.32
	03/15/07		63.06	69.05		5.99
	04/04/07		63.12	69.05		5.93
	04/11/07		63.11	69.14		6.03
	04/18/07		63.10	69.09		5.99
	04/24/07		63.96	68.02		4.06
	05/22/07		63.15	69.14		5.99
	06/19/07		63.16	69.60		6.44
	08/08/07	3,915.83	63.08	69.13	3,852.15	6.05
	08/17/07		63.14	68.96	3,852.11	5.82
	08/24/07		63.21	68.57	3,852.08	5.36
	09/19/07		63.10	69.12	3,852.13	6.02
	10/03/07		63.19	69.14	3,852.05	5.95
	10/11/07		63.24	68.81	3,852.03	5.57
	10/18/07		63.29	68.56	3,852.01	5.27
	12/03/07		63.17	69.22	3,852.06	6.05
	01/02/08		61.59	69.37	3,853.46	7.78
	02/07/08		63.36	69.46	3,851.86	6.10
	02/11/08		63.35	68.47	3,851.97	5.12
	03/18/08		63.45	69.36	3,851.79	5.91
	04/02/08		63.47	69.46	3,851.76	5.99
	04/11/08		63.31	69.47	3,851.90	6.16
	04/14/08		63.75	68.22	3,851.63	4.47
	04/29/08		64.34	65.65	3,851.36	1.31
	05/07/08		64.41	65.63	3,851.30	1.22
	05/12/08		64.30	66.07	3,851.35	1.77
	06/03/08		64.54	65.71	3,851.17	1.17
	06/26/08		64.69	65.96	3,851.01	1.27
	08/28/08		63.96	67.14	3,851.55	3.18

TALON LPE

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
	09/20/08		64.06	66.88	3,851.49	2.82
MW-13	10/29/08		64.26	65.87	3,851.41	1.61
(cont.)	12/23/08		64.41	65.30	3,851.33	0.89
MW-14	07/07/06		63.97	64.15		0.18
	07/14/06		63.96	64.16		0.20
	07/21/06		63.87	64.45		0.58
	07/28/06		63.80	64.64		0.84
	08/25/06		64.09	64.81		0.72
	09/15/06		63.45	65.92		2.47
	09/29/06		63.45	66.56		3.11
	10/06/06		63.68	65.29		1.61
	10/13/06		63.56	65.15		1.59
	10/20/06		63.92	65.66		1.74
	10/27/06		63.62	65.59		1.97
	11/03/06		63.97	66.99		3.02
	11/10/06		63.42	66.39		2.97
	11/20/06		63.77	65.51		1.74
	12/01/06		63.51	66.21		2.70
	12/08/06		63.43	65.66		2.23
	12/15/06		63.39	66.96		3.57
	12/27/06		63.37	65.79		2.42
	01/05/07		63.41	65.72		2.31
	01/15/07		63.18	67.39		4.21
	01/29/07		63.71	66.20		2.49
	02/08/07		63.64	65.64		2.00
	02/20/07		62.30	68.28		5.98
	03/06/07		63.09	68.41		5.32
	03/15/07		63.50	66.93		3.43
	04/04/07		63.73	66.40		2.67
	04/11/07		63.55	66.86		3.31
	04/18/07		64.44	67.35		2.91
	04/24/07		63.81	65.67		1.86
	05/22/07		63.61	66.68		3.07
	06/19/07		63.32	68.28		4.96
	08/08/07	3,915.72	63.06	69.04	3,852.06	5.98
	08/17/07		63.45	67.34	3,851.88	3.89
	08/24/07		63.87	65.34	3,851.70	1.47
	09/19/07		63.63	66.91	3,851.76	3.28
	10/03/07		63.50	67.46	3,851.82	3.96
	10/11/07		63.92	65.47	3,851.65	1.55
	10/18/07		63.80	65.98	3,851.70	2.18
	12/03/07		63.31	68.60	3,851.88	5.29

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-14 (cont.)	01/02/08		63.33	69.28	3,851.80	5.95
	02/07/08		63.63	68.03	3,851.65	4.40
	02/11/08		63.63	68.02	3,851.65	4.39
	03/18/08		63.92	66.85	3,851.51	2.93
	04/02/08		64.04	66.84	3,851.40	2.80
	04/11/08		64.34	64.42	3,851.37	0.08
	04/14/08		64.50	64.69	3,851.20	0.19
	04/29/08		64.54	64.73	3,851.16	0.19
	05/07/08		64.56	64.72	3,851.14	0.16
	05/12/08		64.54	64.70	3,851.16	0.16
	06/03/08		64.66	64.84	3,851.04	0.18
	06/26/08		64.82	64.98	3,850.88	0.16
	07/23/08		64.52	64.68	3,851.18	0.16
	08/28/08		64.45	64.50	3,851.27	0.05
	09/20/08		64.51	64.66	3,851.20	0.15
	10/29/08		64.46	64.79	3,851.23	0.33
	12/23/08		64.48	64.73	3,851.22	0.25
MW-15	07/07/06			63.75		
	07/14/06			63.76		
	07/21/06			63.74		
	08/08/06			63.61		
	08/25/06			63.88		
	09/15/06			63.68		
	09/29/06			64.73		
	10/06/06			63.73		
	10/13/06			63.71		
	10/20/06			63.66		
	10/27/06			63.74		
	11/10/06			63.74		
	11/20/06			63.74		
	12/01/06			63.78		
	12/08/06			63.78		
	12/15/06			63.79		
	12/27/06			63.85		
	01/05/07			63.81		
	01/15/07			63.86		
	01/29/07			63.87		
	02/08/07		63.76	63.77		0.01
	02/20/07			63.88		
	03/06/07		62.27	68.14		5.87
	03/15/07		63.88	63.93		0.05
	04/04/07		63.94	64.02		0.08

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-15 (cont.)	04/11/07		63.90	64.01		0.11
	04/18/07		63.91	63.98		0.07
	04/24/07		63.90	63.97		0.07
	05/22/07		63.91	64.01		0.10
	06/19/07		63.96	64.10		0.14
	08/08/07	3,915.84	63.84	64.06	3,851.98	0.22
	08/17/07		63.90	64.10	3,851.92	0.20
	08/24/07		63.88	64.10	3,851.94	0.22
	09/19/07		63.90	64.10	3,851.92	0.20
	10/03/07		63.93	64.20	3,851.88	0.27
	10/11/07		63.88	64.17	3,851.93	0.29
	10/18/07		63.87	64.23	3,851.93	0.36
	12/03/07		63.94	64.41	3,851.85	0.47
	01/02/08		64.06	64.64	3,851.72	0.58
	02/07/08		64.06	64.79	3,851.71	0.73
	02/11/08		64.06	67.78	3,851.41	3.72
	03/18/08		64.08	64.94	3,851.67	0.86
	04/02/08		64.27	64.37	3,851.56	0.10
	04/11/08		64.12	64.30	3,851.70	0.18
	04/14/08		64.29	69.43	3,851.04	5.14
	04/29/08		64.29	64.56	3,851.52	0.27
	05/07/08		64.31	64.62	3,851.50	0.31
	05/12/08		64.29	64.63	3,851.52	0.34
	06/03/08		64.41	64.85	3,851.39	0.44
	06/26/08		64.54	65.07	3,851.25	0.53
	08/28/08		64.12	64.92	3,851.64	0.80
	09/20/08		64.15	65.03	3,851.60	0.88
	10/29/08		64.28	64.38	3,851.55	0.10
	12/23/08		64.26	64.51	3,851.56	0.25
MW-16	07/07/06			63.60		
	07/14/06			63.62		
	07/21/06			63.57		
	08/08/06			63.47		
	09/15/06		63.56	63.58		0.06
	09/29/06		63.54	63.64		0.10
	10/06/06		63.53	63.68		0.15
	10/13/06		63.50	63.59		0.09
	10/20/06		63.67	64.19		0.52
	10/27/06		63.55	63.77		0.22
	11/10/06		63.51	63.79		0.28
	11/20/06		63.51	63.62		0.11
	12/01/06		63.54	63.64		0.10

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-16 (cont.)	12/08/06		63.60	63.62		0.02
	12/15/06			63.63		
	12/27/06			63.69		
	01/05/07			63.69		
	01/15/07			63.76		
	01/29/07			63.89		
	02/08/07		63.55	63.91		0.36
	02/20/07		63.62	64.10		0.48
	03/06/07		63.61	64.28		0.67
	03/15/07		63.60	64.33		0.73
	04/04/07		63.58	64.59		1.01
	04/11/07		63.55	64.59		1.04
	04/18/07		63.56	64.67		1.11
	04/24/07		63.55	64.72		1.17
	05/22/07		63.31	64.96		1.65
	06/19/07		63.52	65.28		1.76
	08/08/07	3,915.43	63.39	65.59	3,851.82	2.20
	08/17/07		63.44	65.28	3,851.81	1.84
	08/24/07		63.42	65.30	3,851.82	1.88
	09/19/07		63.57	64.76	3,851.74	1.19
	10/03/07		63.57	64.99	3,851.72	1.42
	10/11/07		63.72	64.26	3,851.66	0.54
	10/18/07		63.69	64.37	3,851.67	0.68
	12/03/07		63.57	65.21	3,851.70	1.64
	01/02/08		63.59	65.87	3,851.61	2.28
	02/07/08		63.69	65.67	3,851.54	1.98
	02/11/08		63.68	65.66	3,851.55	1.98
	03/18/08		64.03	64.20	3,851.38	0.17
	04/02/08		64.02	64.68	3,851.34	0.66
	04/11/08		63.83	64.77	3,851.51	0.94
	04/14/08		64.14	64.27	3,851.28	0.13
	04/29/08		64.16	64.30	3,851.26	0.14
	05/07/08		64.17	64.31	3,851.25	0.14
	05/12/08		64.16	64.31	3,851.26	0.15
	06/03/08		64.30	64.44	3,851.12	0.14
	06/26/08		64.45	64.59	3,850.97	0.14
	07/23/08		64.12	64.28	3,851.29	0.16
	08/28/08		64.09	64.23	3,851.33	0.14
	09/20/08		64.11	64.22	3,851.31	0.11
	10/29/08		63.97	64.95	3,851.36	0.98
	12/23/08		64.11	64.29	3,851.30	0.18

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-17	07/07/06		63.30	65.54		2.24
	07/14/06		63.29	65.55		2.26
	07/21/06		63.28	65.56		2.28
	07/28/06		63.21	65.87		2.66
	08/25/06		63.39	65.69		2.30
	09/15/06		62.66	68.07		5.41
	09/29/06		62.75	67.95		5.20
	10/06/06		63.02	66.70		3.68
	10/13/06		62.80	67.78		4.98
	10/20/06		63.34	66.72		3.38
	10/27/06		62.82	67.74		4.92
	11/03/06		63.62	65.91		2.29
	11/10/06		62.88	66.89		4.01
	11/20/06		62.85	67.47		4.62
	12/01/06		62.74	68.20		5.46
	12/08/06		62.74	67.25		4.51
	12/15/06		63.01	67.05		4.04
	12/27/06		62.66	67.41		4.75
	01/05/07		62.71	67.46		4.75
	01/15/07		62.81	67.21		4.40
	01/29/07		62.85	68.26		5.41
	02/08/07		62.82	67.92		5.10
	02/20/07		62.82	68.39		5.57
	03/06/07		62.82	68.38		5.56
	03/15/07		62.87	68.38		5.51
	04/04/07		62.93	68.38		5.45
	04/11/07		62.81	68.45		5.64
	04/18/07		62.90	68.44		5.54
	04/24/07		63.24	68.49		5.25
	05/22/07		62.91	68.28		5.37
	06/19/07		62.92	68.84		5.92
	08/08/07	3,915.59	62.89	68.42	3,852.15	5.53
	08/17/07		62.92	68.26	3,852.14	5.34
	08/24/07		62.97	68.01	3,852.12	5.04
	09/19/07		62.90	68.39	3,852.14	5.49
	10/03/07		62.95	68.47	3,852.09	5.52
	10/11/07		62.98	68.27	3,852.08	5.29
	10/18/07		63.03	68.11	3,852.05	5.08
	12/03/07		62.97	68.49	3,852.07	5.52
	01/02/08		63.11	68.64	3,851.93	5.53
	02/07/08		63.11	68.74	3,851.92	5.63
	03/18/08		63.48	67.44	3,851.71	3.96
	04/02/08		63.62	67.05	3,851.63	3.43

TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
MW-17 (cont.)	04/11/08		63.58	63.58	3,852.01	0.00
	04/14/08		63.46	67.91	3,851.69	4.45
	04/29/08		64.24	64.46	3,851.33	0.22
	05/07/08		64.30	64.36	3,851.28	0.06
	05/12/08		64.30	64.34	3,851.29	0.04
	06/03/08		64.42	64.52	3,851.16	0.10
	06/26/08		64.56	64.73	3,851.01	0.17
	07/23/08		64.24	64.41	3,851.33	0.17
	08/28/08		64.18	64.38	3,851.39	0.20
	09/20/08		64.22	64.41	3,851.35	0.19
	10/29/08		63.92	65.71	3,851.49	1.79
	12/23/08		64.08	65.10	3,851.41	1.02

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

Total manual recovery

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes
NMWQCC Remedial Limits		0.010	0.750	0.750	0.620
MW-1	03/18/08	<0.00100	<0.00100	<0.00100	<0.00100
	06/26/08	<0.00100	<0.00100	<0.00100	<0.00100
	09/20/08	0.00610	0.00250	<0.00100	<0.00100
	12/23/08	0.00140	<0.00100	<0.00100	<0.00100
MW-2	03/18/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	06/26/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
	09/20/08	**15.4**	**7.25**	**0.975**	**2.52**
	12/23/08	Not Sampled Due to Presence of Phase Separated Hydrocarbons			
MW-3	03/18/08	**12.4**	**1.65**	0.646	**1.18**
	06/26/08	**11.2**	**1.410**	0.655	**0.775**
	09/20/08	**12.4**	**1.19**	**0.782**	**0.714**
	12/23/08	**7.97**	0.437	0.412	0.294
MW-4	03/18/08	<0.00100	<0.00100	<0.00100	<0.00100
	06/26/08	**0.0353**	0.00370	0.00230	0.00290
	09/20/08	**0.0757**	0.00930	0.00620	0.00720
	12/23/08	0.00610	<0.00100	<0.00100	<0.00100
MW-5	03/18/08	**0.0335**	<0.00100	<0.00100	0.0492
	06/26/08	**0.0525**	0.00350	0.00250	0.0267
	09/20/08	**0.0653**	0.00580	0.00390	0.0469
	12/23/08	0.00360	<0.00100	<0.00100	0.0117
MW-6	03/18/08	<0.00100	<0.00100	<0.00100	<0.00100
	06/26/08	<0.00100	<0.00100	<0.00100	<0.00100
	09/20/08	<0.00100	<0.00100	<0.00100	<0.00100
	12/23/08	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	03/18/08	<0.00100	<0.00100	<0.00100	<0.00100
	06/26/08	<0.00100	<0.00100	<0.00100	<0.00100
	09/20/08	<0.00100	<0.00100	<0.00100	<0.00100
	12/23/08	<0.00100	<0.00100	<0.00100	<0.00100
MW-8	03/18/08	<0.00100	<0.00100	<0.00100	<0.00100
	06/26/08	<0.00100	<0.00100	<0.00100	<0.00100
	09/20/08	<0.00100	<0.00100	<0.00100	<0.00100
	12/23/08	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	03/18/08	<0.00100	<0.00100	<0.00100	<0.00100
	06/26/08	<0.00100	<0.00100	<0.00100	<0.00100
	09/20/08	<0.00100	<0.00100	<0.00100	<0.00100
	12/23/08	<0.00100	<0.00100	<0.00100	<0.00100

TALON LPE

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes
MW-10	03/18/08	**9.80**	<0.100	0.194	0.184
	06/26/08	**8.70**	<0.0500	0.159	0.0964
	09/20/08	**7.70**	<0.0500	<0.0500	<0.0500
	12/23/08	**10.2**	<0.0500	0.0955	0.0973
MW-11	03/18/08	<0.00100	<0.00100	<0.00100	0.00120
	06/26/08	<0.00100	<0.00100	<0.00100	<0.00100
	09/20/08	0.00110	<0.00100	<0.00100	<0.00100
	12/23/08	**0.106**	<0.00100	0.00210	0.00160
MW-12	03/18/08	**0.559**	<0.0100	0.0726	0.0373
	06/26/08	**0.701**	<0.00500	0.0584	0.0503
	09/20/08	**0.791**	<0.0150	0.0478	0.0517
	12/23/08	**0.840**	<0.0100	0.0372	0.0452
MW-13	03/18/08	**Not Sampled Due to Presence of Phase Separated Hydrocarbons**			
	06/26/08	**Not Sampled Due to Presence of Phase Separated Hydrocarbons**			
	09/20/08	**12.7**	**8.43**	**1.10**	**2.89**
	12/23/08	**Not Sampled Due to Presence of Phase Separated Hydrocarbons**			
MW-14	03/18/08	**Not Sampled Due to Presence of Phase Separated Hydrocarbons**			
	06/26/08	**Not Sampled Due to Presence of Phase Separated Hydrocarbons**			
	09/20/08	**14.5**	**8.66**	**1.10**	**2.76**
	12/23/08	**Not Sampled Due to Presence of Phase Separated Hydrocarbons**			
MW-15	03/18/08	**Not Sampled Due to Presence of Phase Separated Hydrocarbons**			
	06/26/08	**Not Sampled Due to Presence of Phase Separated Hydrocarbons**			
	09/20/08	**4.87**	**2.17**	0.480	**1.43**
	12/23/08	**Not Sampled Due to Presence of Phase Separated Hydrocarbons**			
MW-16	03/18/08	**Not Sampled Due to Presence of Phase Separated Hydrocarbons**			
	06/26/08	**Not Sampled Due to Presence of Phase Separated Hydrocarbons**			
	09/20/08	**3.45**	**2.63**	0.476	**1.21**
	12/23/08	**Not Sampled Due to Presence of Phase Separated Hydrocarbons**			
MW-17	03/18/08	**Not Sampled Due to Presence of Phase Separated Hydrocarbons**			
	06/26/08	**Not Sampled Due to Presence of Phase Separated Hydrocarbons**			
	09/20/08	**14.5**	**9.60**	**1.04**	**2.63**
	12/23/08	**Not Sampled Due to Presence of Phase Separated Hydrocarbons**			

† ***Bolded*** *values are in excess of the NMWQCC Remediation Limits*

TABLE 3
SUMMARY OF GROUNDWATER POLY-AROMATIC HYDROCARBON (PAH) ANALYTICAL RESULTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

All concentrations are in mg/L

Sample Location	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]-anthracene	Benzo[a]-pyrene	Benzo[b]-fluoranthene	Benzo[g,h,i]-perylene	Benzo[k]-fluoranthene	Chrysene	Dibenz[a,h]-anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno[1,2,3-cd]-pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
MW-1	09/20/08	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-3	09/20/08	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000935	<0.000200	0.00338	<0.000200	0.0292	0.0287	**0.0393**	0.00118	<0.000200
MW-4	09/20/08	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-5	09/20/08	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000548	<0.000200	0.000274	<0.000200	<0.000200
MW-6	09/20/08	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-7	09/20/08	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-8	09/20/08	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-9	09/20/08	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-10	09/20/08	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000517	<0.000200	0.00126	<0.000200	0.00979	0.00343	0.00709	0.000618	<0.000200
MW-11	09/20/08	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-12	09/20/08	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00405	0.00355	0.00353	<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 ANALYTICAL RESULTS
PLAINS MARKETING, L.P. - SRS # 2002-10312
LOVINGTON DEEP 6"
NMOCD REF. # AP-037
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER: PLAINS046SPL

All concentrations are in mg/L

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylene	TPH DRO	TPH GRO	Total TPH	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]-anthracene	Benzo[a]-pyrene	Benzo[b]-fluoranthene	Benzo[g,h,i]-perylene	Benzo[k]-fluoranthene	Chrysene	Dibenzo[a,h]-anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno[1,2,3-cd]-pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
MW-2	09/20/08	**15.4**	**7.25**	**0.975**	**2.52**	6.35	71.6	77.95	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000533	<0.000200	0.00168	<0.000200	0.00477	<0.000200	0.0456	0.0561	**0.0581**	0.00321	<0.000200
MW-13	09/20/08	**12.7**	**8.43**	**1.10**	**2.89**	49.4	72.2	121.6	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00710	0.00105	0.0222	<0.000200	0.198	0.236	**0.106**	0.0195	0.00862
MW-14	09/20/08	**14.5**	**8.66**	**1.10**	**2.76**	7.44	71.6	79.04	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.000337	<0.000200	0.00141	<0.000200	0.00396	<0.000200	0.0362	0.0441	**0.0471**	0.00249	<0.000200
MW-15	09/20/08	**4.87**	**2.17**	0.480	**1.43**	57.5	27.2	84.7	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00145	<0.000200	0.00319	0.000418	0.0111	<0.000200	0.0817	0.0902	**0.0451**	0.00866	0.000670
MW-16	09/20/08	**3.45**	**2.63**	0.476	**1.21**	<5.00	21.8	21.8	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00103	<0.000200	0.00303	<0.000200	0.0202	0.0230	0.0239	0.00209	<0.000200
MW-17	09/20/08	**14.5**	**9.60**	**1.04**	**2.63**	8.95	73.8	82.75	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00108	<0.000200	0.00256	0.000305	0.00800	<0.000200	0.0643	0.0773	**0.0585**	0.00625	<0.000200
NMWQCC Remedial Limits		0.01	0.75	0.75	0.62								0.0007												0.030		

[1] ***Bolded*** *values are in excess of the NMWQCC Remediation Limits*
BTEX, TPH and PAH analysis per the NMOCD in monitor wells that contain PSH

APPENDIX C

Laboratory Analytical Data Reports and Chain of Custody Documentation

TRACEANALYSIS, INC.

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

E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

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

Report Date: March 24, 2008

Work Order: 8031918

Order #: SRS 2002-10312
Project Location: Hobbs, NM
Project Name: Lovington Deep 6 inch
Project Number: Plains 046SPL

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
154059	MW-6	water	2008-03-18	14:18	2008-03-19
154060	MW-8	water	2008-03-18	14:24	2008-03-19
154061	MW-7	water	2008-03-18	14:28	2008-03-19
154062	MW-9	water	2008-03-18	14:32	2008-03-19
154063	MW-12	water	2008-03-18	14:37	2008-03-19
154064	MW-11	water	2008-03-18	14:42	2008-03-19
154065	MW-10	water	2008-03-18	14:48	2008-03-19
154066	MW-1	water	2008-03-18	14:53	2008-03-19
154067	MW-3	water	2008-03-18	15:00	2008-03-19
154068	MW-5	water	2008-03-18	15:08	2008-03-19
154069	MW-4	water	2008-03-18	15:12	2008-03-19

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.

Michael Abel

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 154059 - MW-6

Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	46760	Date Analyzed:	2008-03-21	Analyzed By:	DC
Prep Batch:	40218	Sample Preparation:	2008-03-21	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100
Total BTEX		<0.00100		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)		0.0998	mg/L	1	0.100	100	40.1 - 136

Sample: 154060 - MW-8

Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	46760	Date Analyzed:	2008-03-21	Analyzed By:	DC
Prep Batch:	40218	Sample Preparation:	2008-03-21	Prepared By:	DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	40.1 - 136

Sample: 154061 - MW-7

Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	46760	Date Analyzed:	2008-03-21	Analyzed By:	DC
Prep Batch:	40218	Sample Preparation:	2008-03-21	Prepared By:	DC

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

continued ...

sample 154061 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Xylene		<0.00100	mg/L	1	0.00100
Total BTEX		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.109	mg/L	1	0.100	109	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.109	mg/L	1	0.100	109	40.1 - 136

Sample: 154062 - MW-9

Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	46760	Date Analyzed:	2008-03-21	Analyzed By:	DC
Prep Batch:	40218	Sample Preparation:	2008-03-21	Prepared By:	DC

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
Total BTEX		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.109	mg/L	1	0.100	109	40.1 - 136

Sample: 154063 - MW-12

Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	46760	Date Analyzed:	2008-03-21	Analyzed By:	DC
Prep Batch:	40218	Sample Preparation:	2008-03-21	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.559**	mg/L	10	0.00100
Toluene		<0.0100	mg/L	10	0.00100
Ethylbenzene		**0.0726**	mg/L	10	0.00100
Xylene		**0.0373**	mg/L	10	0.00100
Total BTEX		**0.669**	mg/L	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.12	mg/L	10	1.00	112	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		1.09	mg/L	10	1.00	109	40.1 - 136

Sample: 154064 - MW-11

Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	46760	Date Analyzed:	2008-03-21	Analyzed By:	DC
Prep Batch:	40218	Sample Preparation:	2008-03-21	Prepared By:	DC

Parameter	Flag	Result	RL	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		**0.00120**		mg/L	1	0.00100
Total BTEX		**0.00120**		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.109	mg/L	1	0.100	109	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	40.1 - 136

Sample: 154065 - MW-10

Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	46760	Date Analyzed:	2008-03-21	Analyzed By:	DC
Prep Batch:	40218	Sample Preparation:	2008-03-21	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**9.80**		mg/L	100	0.00100
Toluene		<0.100		mg/L	100	0.00100
Ethylbenzene		**0.194**		mg/L	100	0.00100
Xylene		**0.184**		mg/L	100	0.00100
Total BTEX		**10.2**		mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.7	mg/L	100	10.0	107	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		10.9	mg/L	100	10.0	109	40.1 - 136

Sample: 154066 - MW-1

Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	46760	Date Analyzed:	2008-03-21	Analyzed By:	DC
Prep Batch:	40218	Sample Preparation:	2008-03-21	Prepared By:	DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	40.1 - 136

Sample: 154067 - MW-3

Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	46760	Date Analyzed:	2008-03-21	Analyzed By:	DC
Prep Batch:	40218	Sample Preparation:	2008-03-21	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**12.4**	mg/L	100	0.00100
Toluene		**1.65**	mg/L	100	0.00100
Ethylbenzene		**0.646**	mg/L	100	0.00100
Xylene		**1.18**	mg/L	100	0.00100
Total BTEX		**15.9**	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		10.8	mg/L	100	10.0	108	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		10.8	mg/L	100	10.0	108	40.1 - 136

Sample: 154068 - MW-5

Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	46760	Date Analyzed:	2008-03-21	Analyzed By:	DC
Prep Batch:	40218	Sample Preparation:	2008-03-21	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0335**	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		**0.0492**	mg/L	1	0.00100
Total BTEX		**0.0827**	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)		0.111	mg/L	1	0.100	111	40.1 - 136

Sample: 154069 - MW-4

Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	46760	Date Analyzed:	2008-03-21	Analyzed By:	DC
Prep Batch:	40218	Sample Preparation:	2008-03-21	Prepared By:	DC

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
Total BTEX		<0.00100	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)		0.104	mg/L	1	0.100	104	40.1 - 136

Method Blank (1) QC Batch: 46760

QC Batch: 46760 | Date Analyzed: 2008-03-21 | Analyzed By: DC
Prep Batch: 40218 | QC Preparation: 2008-03-21 | 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)		0.106	mg/L	1	0.100	106	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0917	mg/L	1	0.100	92	69.1 - 122.3

Laboratory Control Spike (LCS-1)

QC Batch: 46760 | Date Analyzed: 2008-03-21 | Analyzed By: DC
Prep Batch: 40218 | QC Preparation: 2008-03-21 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.107	mg/L	1	0.100	<0.00110	107	84 - 119.7
Toluene	0.110	mg/L	1	0.100	<0.00100	110	84.9 - 118.2
Ethylbenzene	0.113	mg/L	1	0.100	<0.00100	113	84.4 - 118.6
Xylene	0.342	mg/L	1	0.300	<0.00290	114	84.8 - 117.8

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	0.109	mg/L	1	0.100	<0.00110	109	84 - 119.7	2	20
Toluene	0.111	mg/L	1	0.100	<0.00100	111	84.9 - 118.2	1	20
Ethylbenzene	0.112	mg/L	1	0.100	<0.00100	112	84.4 - 118.6	1	20
Xylene	0.342	mg/L	1	0.300	<0.00290	114	84.8 - 117.8	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.110	0.105	mg/L	1	0.100	110	105	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0981	0.0954	mg/L	1	0.100	98	95	67.7 - 126.3

Matrix Spike (MS-1) Spiked Sample: 154063

QC Batch: 46760 | Date Analyzed: 2008-03-21 | Analyzed By: DC
Prep Batch: 40218 | QC Preparation: 2008-03-21 | Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.69	mg/L	10	1.00	0.559	113	77.5 - 121.1
Toluene	1.08	mg/L	10	1.00	<0.0100	108	78.8 - 119.6
Ethylbenzene	1.18	mg/L	10	1.00	0.0726	111	77.9 - 120.5
Xylene	3.38	mg/L	10	3.00	0.0373	111	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	1.69	mg/L	10	1.00	0.559	113	77.5 - 121.1	0	20
Toluene	1.07	mg/L	10	1.00	<0.0100	107	78.8 - 119.6	1	20
Ethylbenzene	1.18	mg/L	10	1.00	0.0726	111	77.9 - 120.5	0	20
Xylene	3.39	mg/L	10	3.00	0.0373	112	78.3 - 119.4	0	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.06	1.05	mg/L	10	1	106	105	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	1.10	1.11	mg/L	10	1	110	111	59.4 - 127.3

Standard (ICV-1)

QC Batch: 46760 | Date Analyzed: 2008-03-21 | 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	2008-03-21
Toluene		mg/L	0.100	0.113	113	85 - 115	2008-03-21
Ethylbenzene		mg/L	0.100	0.108	108	85 - 115	2008-03-21
Xylene		mg/L	0.300	0.324	108	85 - 115	2008-03-21

Standard (CCV-1)

QC Batch: 46760 | Date Analyzed: 2008-03-21 | 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	2008-03-21

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/L	0.100	0.110	110	85 - 115	2008-03-21
Ethylbenzene		mg/L	0.100	0.111	111	85 - 115	2008-03-21
Xylene		mg/L	0.300	0.334	111	85 - 115	2008-03-21

LAB Order # 8031918 Page 1 of 1

TraceAnalysis, Inc.

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Company Name: Talon LPE
Phone #: 432-522-2133
Address: (Street, City, Zip) 2901 Rankin Hwy
Fax #: 522-4180
Contact Person: Shanna Smith
E-mail: Camille Reynolds 5smith@talonlpe.com
Invoice to: (If different from above)
Project #: PLAINS046 SPL
Project Name: Deep 6"
Project Location (including state): New Mexico
Sampler Signature: Camille Chung

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
154059	MW-6	2	V	✓				✓				✓		3-18-08	2:18
060	MW-8	2	V	✓				✓				✓		3-18-08	2:24
061	MW-7	2	V	✓				✓				✓		3-18-08	2:28
062	MW-9	2	V	✓				✓				✓		3-18-08	2:32
063	MW-12	2	V	✓				✓				✓			2:37
064	MW-11	2	V	✓				✓				✓			2:42
065	MW-10	2	V	✓				✓				✓			2:48
066	MW-1	2	V	✓				✓				✓			2:53
067	MW-3	2	V	✓				✓				✓			3:00
068	MW-5	2	V	✓				✓				✓			3:08
069	MW-4	2	V	✓				✓				✓			3:12

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB #	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(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	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
154059		X																	
060		X																	
061		X																	
062		X																	
063		X																	
064		X																	
065		X																	
066		X																	
067		X																	
068		X																	
069		X																	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Camille Chung	3-19-08	1315		3-19-08	13:15
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 3.2 °C
Log-in-Review

REMARKS:
All tests - Midland

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

Carrier #

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 1, 2008

Work Order: 8062645

Order #: SRS 2002-10312
Project Location: Hobbs, NM
Project Name: Lovington Deep 6 inch
Project Number: Plains 046SPL

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
164817	MW-11	water	2008-06-26	12:06	2008-06-26
164818	MW-3	water	2008-06-26	12:11	2008-06-26
164819	MW-1	water	2008-06-26	11:40	2008-06-26
164820	MW-4	water	2008-06-26	12:23	2008-06-26
164821	MW-5	water	2008-06-26	12:45	2008-06-26
164822	MW-6	water	2008-06-26	11:08	2008-06-26
164823	MW-7	water	2008-06-26	11:54	2008-06-26
164824	MW-8	water	2008-06-26	12:02	2008-06-26
164825	MW-9	water	2008-06-26	12:30	2008-06-26
164826	MW-10	water	2008-06-26	12:35	2008-06-26

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

This report consists of a total of 12 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 Lovington Deep 6 inch were received by TraceAnalysis, Inc. on 2008-06-26 and assigned to work order 8062645. Samples for work order 8062645 were received intact without headspace and at a temperature of 3.0.

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 8062645 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: 164817 - MW-11

Laboratory:	Midland				
Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49841	Date Analyzed:	2008-06-27	Analyzed By:	DC
Prep Batch:	42777	Sample Preparation:	2008-06-27	Prepared By:	DC

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)		0.0874	mg/L	1	0.100	87	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0875	mg/L	1	0.100	88	52 - 124.1

Sample: 164818 - MW-3

Laboratory:	Midland				
Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49841	Date Analyzed:	2008-06-27	Analyzed By:	DC
Prep Batch:	42777	Sample Preparation:	2008-06-27	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**11.2**	mg/L	50	0.00100
Toluene		**1.41**	mg/L	50	0.00100
Ethylbenzene		**0.655**	mg/L	50	0.00100
Xylene		**0.775**	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.16	mg/L	50	5.00	83	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		4.25	mg/L	50	5.00	85	52 - 124.1

Sample: 164819 - MW-1

Laboratory:	Midland				
Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49841	Date Analyzed:	2008-06-27	Analyzed By:	DC
Prep Batch:	42777	Sample Preparation:	2008-06-27	Prepared By:	DC

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)		0.0872	mg/L	1	0.100	87	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0877	mg/L	1	0.100	88	52 - 124.1

Sample: 164820 - MW-4

Laboratory:	Midland				
Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49841	Date Analyzed:	2008-06-27	Analyzed By:	DC
Prep Batch:	42777	Sample Preparation:	2008-06-27	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0353**	mg/L	1	0.00100
Toluene		**0.00370**	mg/L	1	0.00100
Ethylbenzene		**0.00230**	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)		0.0850	mg/L	1	0.100	85	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0858	mg/L	1	0.100	86	52 - 124.1

Sample: 164821 - MW-5

Laboratory:	Midland				
Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49862	Date Analyzed:	2008-06-28	Analyzed By:	DC
Prep Batch:	42778	Sample Preparation:	2008-06-27	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0525**	mg/L	1	0.00100
Toluene		**0.00350**	mg/L	1	0.00100
Ethylbenzene		**0.00250**	mg/L	1	0.00100
Xylene		**0.0267**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0952	mg/L	1	0.100	95	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0951	mg/L	1	0.100	95	52 - 124.1

Sample: 164822 - MW-6

Laboratory:	Midland				
Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49862	Date Analyzed:	2008-06-28	Analyzed By:	DC
Prep Batch:	42778	Sample Preparation:	2008-06-27	Prepared By:	DC

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)		0.0938	mg/L	1	0.100	94	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0920	mg/L	1	0.100	92	52 - 124.1

Sample: 164823 - MW-7

Laboratory:	Midland				
Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49862	Date Analyzed:	2008-06-28	Analyzed By:	DC
Prep Batch:	42778	Sample Preparation:	2008-06-27	Prepared By:	DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0942	mg/L	1	0.100	94	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0924	mg/L	1	0.100	92	52 - 124.1

Sample: 164824 - MW-8

Laboratory:	Midland				
Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49862	Date Analyzed:	2008-06-28	Analyzed By:	DC
Prep Batch:	42778	Sample Preparation:	2008-06-27	Prepared By:	DC

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)		0.0948	mg/L	1	0.100	95	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0925	mg/L	1	0.100	92	52 - 124.1

Sample: 164825 - MW-9

Laboratory:	Midland				
Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49862	Date Analyzed:	2008-06-28	Analyzed By:	DC
Prep Batch:	42778	Sample Preparation:	2008-06-27	Prepared By:	DC

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)		0.0957	mg/L	1	0.100	96	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0927	mg/L	1	0.100	93	52 - 124.1

Sample: 164826 - MW-10

Laboratory:	Midland				
Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49862	Date Analyzed:	2008-06-28	Analyzed By:	DC
Prep Batch:	42778	Sample Preparation:	2008-06-27	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**8.70**	mg/L	50	0.00100
Toluene		<0.0500	mg/L	50	0.00100
Ethylbenzene		**0.159**	mg/L	50	0.00100
Xylene		**0.0964**	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.74	mg/L	50	5.00	95	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		4.65	mg/L	50	5.00	93	52 - 124.1

Method Blank (1) QC Batch: 49841

QC Batch: 49841 | Date Analyzed: 2008-06-27 | Analyzed By: DC
Prep Batch: 42777 | QC Preparation: 2008-06-27 | 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)		0.0886	mg/L	1	0.100	89	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0887	mg/L	1	0.100	89	37.1 - 130.9

Method Blank (1) QC Batch: 49862

QC Batch: 49862 | Date Analyzed: 2008-06-28 | Analyzed By: DC
Prep Batch: 42778 | QC Preparation: 2008-06-27 | 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)		0.0933	mg/L	1	0.100	93	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0933	mg/L	1	0.100	93	37.1 - 130.9

Laboratory Control Spike (LCS-1)

QC Batch: 49841 | Date Analyzed: 2008-06-27 | Analyzed By: DC
Prep Batch: 42777 | QC Preparation: 2008-06-27 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0924	mg/L	1	0.100	<0.000200	92	71.7 - 120.5
Toluene	0.0932	mg/L	1	0.100	<0.000200	93	75.4 - 118.8
Ethylbenzene	0.0936	mg/L	1	0.100	<0.000200	94	73.5 - 118
Xylene	0.280	mg/L	1	0.300	<0.000300	93	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	0.0933	mg/L	1	0.100	<0.000200	93	71.7 - 120.5	1	20
Toluene	0.0939	mg/L	1	0.100	<0.000200	94	75.4 - 118.8	1	20
Ethylbenzene	0.0939	mg/L	1	0.100	<0.000200	94	73.5 - 118	0	20
Xylene	0.283	mg/L	1	0.300	<0.000300	94	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)	0.0908	0.0923	mg/L	1	0.100	91	92	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0914	0.0930	mg/L	1	0.100	91	93	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 49862 | Date Analyzed: 2008-06-28 | Analyzed By: DC
Prep Batch: 42778 | QC Preparation: 2008-06-27 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.100	mg/L	1	0.100	<0.000200	100	71.7 - 120.5
Toluene	0.101	mg/L	1	0.100	<0.000200	101	75.4 - 118.8
Ethylbenzene	0.100	mg/L	1	0.100	<0.000200	100	73.5 - 118
Xylene	0.301	mg/L	1	0.300	<0.000300	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	0.106	mg/L	1	0.100	<0.000200	106	71.7 - 120.5	6	20
Toluene	0.106	mg/L	1	0.100	<0.000200	106	75.4 - 118.8	5	20
Ethylbenzene	0.106	mg/L	1	0.100	<0.000200	106	73.5 - 118	6	20
Xylene	0.318	mg/L	1	0.300	<0.000300	106	72.9 - 118.2	6	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0965	0.0996	mg/L	1	0.100	96	100	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0962	0.0996	mg/L	1	0.100	96	100	43.9 - 132.4

Matrix Spike (MS-1) Spiked Sample: 164818

QC Batch: 49841 | Date Analyzed: 2008-06-27 | Analyzed By: DC
Prep Batch: 42777 | QC Preparation: 2008-06-27 | Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	17.1	mg/L	50	5.00	11.2045	118	10 - 160.8
Toluene	5.97	mg/L	50	5.00	1.4099	91	10 - 160.7
Ethylbenzene	5.18	mg/L	50	5.00	0.6554	90	10 - 158.3
Xylene	14.2	mg/L	50	15.0	0.7749	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	16.1	mg/L	50	5.00	11.2045	98	10 - 160.8	6	20
Toluene	5.63	mg/L	50	5.00	1.4099	84	10 - 160.7	6	20
Ethylbenzene	4.88	mg/L	50	5.00	0.6554	84	10 - 158.3	6	20
Xylene	13.4	mg/L	50	15.0	0.7749	84	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)	4.37	4.09	mg/L	50	5	87	82	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	4.53	4.27	mg/L	50	5	91	85	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 164826

QC Batch: 49862 | Date Analyzed: 2008-06-28 | Analyzed By: DC
Prep Batch: 42778 | QC Preparation: 2008-06-27 | Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	13.8	mg/L	50	5.00	8.6952	102	10 - 160.8
Toluene	5.02	mg/L	50	5.00	<0.0100	100	10 - 160.7
Ethylbenzene	5.16	mg/L	50	5.00	0.1588	100	10 - 158.3
Xylene	15.1	mg/L	50	15.0	0.0964	100	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	13.2	mg/L	50	5.00	8.6952	90	10 - 160.8	4	20
Toluene	4.80	mg/L	50	5.00	<0.0100	96	10 - 160.7	4	20
Ethylbenzene	4.94	mg/L	50	5.00	0.1588	96	10 - 158.3	4	20
Xylene	14.4	mg/L	50	15.0	0.0964	95	10 - 158	5	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)	4.96	4.76	mg/L	50	5	99	95	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	5.00	4.77	mg/L	50	5	100	95	37.5 - 136

Standard (ICV-1)

QC Batch: 49841 | Date Analyzed: 2008-06-27 | 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	0.0925	92	85 - 115	2008-06-27
Toluene		mg/L	0.100	0.0933	93	85 - 115	2008-06-27
Ethylbenzene		mg/L	0.100	0.0936	94	85 - 115	2008-06-27
Xylene		mg/L	0.300	0.282	94	85 - 115	2008-06-27

Standard (CCV-1)

QC Batch: 49841 | Date Analyzed: 2008-06-27 | 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	0.0854	85	85 - 115	2008-06-27
Toluene		mg/L	0.100	0.0859	86	85 - 115	2008-06-27
Ethylbenzene		mg/L	0.100	0.0859	86	85 - 115	2008-06-27
Xylene		mg/L	0.300	0.259	86	85 - 115	2008-06-27

Standard (ICV-1)

QC Batch: 49862 | Date Analyzed: 2008-06-28 | 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	2008-06-28

continued ...

standard continued ...

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/L	0.100	0.100	100	85 - 115	2008-06-28
Ethylbenzene		mg/L	0.100	0.100	100	85 - 115	2008-06-28
Xylene		mg/L	0.300	0.302	101	85 - 115	2008-06-28

Standard (CCV-1)

QC Batch: 49862 Date Analyzed: 2008-06-28 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	2008-06-28
Toluene		mg/L	0.100	0.0997	100	85 - 115	2008-06-28
Ethylbenzene		mg/L	0.100	0.0980	98	85 - 115	2008-06-28
Xylene		mg/L	0.300	0.297	99	85 - 115	2008-06-28

LAB Order ID # 80626 45 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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200 East Sunset Rd., Suite E, El Paso, Texas 79922, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443
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: (Street, City, Zip) 2301 Rankin Hwy
Fax #:
Contact Person: Shanna Smith
E-mail: Camille Reynolds, Shanna Smith
Invoice to: (If different from above)
Project #: PLAINS 046 SPL, SRS 2002-10312
Project Name: Lovington Deep 6"
Project Location (including state): New Mexico
Sampler Signature: Curtis Chung / Lance Reynolds

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(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	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
817	MW-11	2	V	X				X				X		6-26-08	1206		X																	
818	MW-3	2	V	X				X				X		6-26-08	1211		X																	
819	MW-1	2	V	X				X				X		6-26-08	1140		X																	
820	MW-4	2	V	X				X				X		6-26-08	1223		X																	
821	MW-5	2	V	X				X				X		6-26-08	1245		X																	
822	MW-6	2	V	X				X				X		6-26-08	1108		X																	
823	MW-7	2	V	X				X				X		6-26-08	1154		X																	
824	MW-8	2	V	X				X				X		6-26-08	1202		X																	
825	MW-9	2	V	X				X				X		6-26-08	1230		X																	
826	MW-10	2	V	X				X				X		6-26-08	1235		X																	
	~~MW-11~~ MB 6/26/08	2	V	X				X				X		6-26-08	1206		X																	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Curtis Chung		6-26-08	3:40 pm		Talon	6/26/08	3:40pm	
	Talon LPE	6/26/08	1709		TRACE	6/26/08	17:09	3.0

LAB USE ONLY: Intact Y N; Headspace Y N NA; Log-In-Review

REMARKS: All tests - Midland

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

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

Carrier #

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TRACEANALYSIS, INC.

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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 1, 2008

Work Order: 8062646

Order #: SRS 2002-10312
Project Location: Hobbs, NM
Project Name: Lovington Deep 6 inch
Project Number: Plains 046SPL

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
164827	MW-12	water	2008-06-26	12:19	2008-06-26

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

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 Lovington Deep 6 inch were received by TraceAnalysis, Inc. on 2008-06-26 and assigned to work order 8062646. Samples for work order 8062646 were received intact without headspace and at a temperature of 3.0.

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 8062646 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: 164827 - MW-12

Laboratory:	Midland				
Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	49862	Date Analyzed:	2008-06-28	Analyzed By:	DC
Prep Batch:	42778	Sample Preparation:	2008-06-27	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.701**	mg/L	5	0.00100
Toluene		<0.00500	mg/L	5	0.00100
Ethylbenzene		**0.0584**	mg/L	5	0.00100
Xylene		**0.0503**	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.475	mg/L	5	0.500	95	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.468	mg/L	5	0.500	94	52 - 124.1

Method Blank (1) QC Batch: 49862

QC Batch:	49862	Date Analyzed:	2008-06-28	Analyzed By:	DC
Prep Batch:	42778	QC Preparation:	2008-06-27	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)		0.0933	mg/L	1	0.100	93	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0933	mg/L	1	0.100	93	37.1 - 130.9

Laboratory Control Spike (LCS-1)

QC Batch:	49862	Date Analyzed:	2008-06-28	Analyzed By:	DC
Prep Batch:	42778	QC Preparation:	2008-06-27	Prepared By:	DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.100	mg/L	1	0.100	<0.000200	100	71.7 - 120.5
Toluene	0.101	mg/L	1	0.100	<0.000200	101	75.4 - 118.8
Ethylbenzene	0.100	mg/L	1	0.100	<0.000200	100	73.5 - 118
Xylene	0.301	mg/L	1	0.300	<0.000300	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	0.106	mg/L	1	0.100	<0.000200	106	71.7 - 120.5	6	20
Toluene	0.106	mg/L	1	0.100	<0.000200	106	75.4 - 118.8	5	20
Ethylbenzene	0.106	mg/L	1	0.100	<0.000200	106	73.5 - 118	6	20
Xylene	0.318	mg/L	1	0.300	<0.000300	106	72.9 - 118.2	6	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0965	0.0996	mg/L	1	0.100	96	100	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0962	0.0996	mg/L	1	0.100	96	100	43.9 - 132.4

Matrix Spike (MS-1) Spiked Sample: 164826

QC Batch: 49862 | Date Analyzed: 2008-06-28 | Analyzed By: DC
Prep Batch: 42778 | QC Preparation: 2008-06-27 | Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	13.8	mg/L	50	5.00	8.6952	102	10 - 160.8
Toluene	5.02	mg/L	50	5.00	<0.0100	100	10 - 160.7
Ethylbenzene	5.16	mg/L	50	5.00	0.1588	100	10 - 158.3
Xylene	15.1	mg/L	50	15.0	0.0964	100	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	13.2	mg/L	50	5.00	8.6952	90	10 - 160.8	4	20
Toluene	4.80	mg/L	50	5.00	<0.0100	96	10 - 160.7	4	20
Ethylbenzene	4.94	mg/L	50	5.00	0.1588	96	10 - 158.3	4	20
Xylene	14.4	mg/L	50	15.0	0.0964	95	10 - 158	5	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)	4.96	4.76	mg/L	50	5	99	95	33.1 - 132.5

continued ...

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	5.00	4.77	mg/L	50	5	100	95	37.5 - 136

Standard (ICV-1)

QC Batch: 49862 Date Analyzed: 2008-06-28 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	2008-06-28
Toluene		mg/L	0.100	0.100	100	85 - 115	2008-06-28
Ethylbenzene		mg/L	0.100	0.100	100	85 - 115	2008-06-28
Xylene		mg/L	0.300	0.302	101	85 - 115	2008-06-28

Standard (CCV-1)

QC Batch: 49862 Date Analyzed: 2008-06-28 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	2008-06-28
Toluene		mg/L	0.100	0.0997	100	85 - 115	2008-06-28
Ethylbenzene		mg/L	0.100	0.0980	98	85 - 115	2008-06-28
Xylene		mg/L	0.300	0.297	99	85 - 115	2008-06-28

LAB Order ID # 806 26646 Page 1 of 1

TraceAnalysis, Inc.

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Ft. Worth, Texas 76116
Tel (817) 201-5260
Fax (817) 560-4336

Company Name: Talon LPE
Phone #: 432-522-2183
Address: (Street, City, Zip) 2301 Rankin Hwy
Fax #:
Contact Person: Shanna Smith
E-mail: Camille Reynolds, Shanna Smith
Invoice to: (If different from above)
Project #: PLAINS 046 SPL, SRS 2002-10312
Project Name: Lovington Deep 6"
Project Location (including state): NEW Mexico
Sampler Signature: Lance Reynolds, Cristo Chy

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
164829	MW-12	2	✓	X				X				X		6-26-08	1219

MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(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	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
	X																	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Cristo Chy	Talon	6-26-08	3:40pm		Talon/LPE	6/26/08	3:40 p.m.	
	Talon/LPE	6/26/08	1709		TRACE	6/26/08	17:09	3.0

LAB USE ONLY
Intact (Y) N
Headspace Y (N) NA
3.0
Log-in Review

REMARKS:
All tests - Midland

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

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

Carrier # Courier

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TRACEANALYSIS, INC.

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

Certifications

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

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-Amarillo
921 North Bivins
Amarillo, TX, 79107

Report Date: October 1, 2008

Work Order: 8092210

Order #: SRS 2002-10312
Project Location: Lovington, NM
Project Name: Lovington Deep 6 inch
Project Number: Plains 046SPL

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
174135	MW-1	water	2008-09-20	13:05	2008-09-22
174136	MW-2	water	2008-09-20	14:50	2008-09-22
174137	MW-3	water	2008-09-20	13:19	2008-09-22
174138	MW-4	water	2008-09-20	13:33	2008-09-22
174139	MW-5	water	2008-09-20	13:43	2008-09-22

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
174140	MW-6	water	2008-09-20	10:10	2008-09-22
174141	MW-7	water	2008-09-20	10:50	2008-09-22
174142	MW-8	water	2008-09-20	10:30	2008-09-22
174143	MW-9	water	2008-09-20	11:20	2008-09-22
174144	MW-10	water	2008-09-20	11:35	2008-09-22
174145	MW-11	water	2008-09-20	12:00	2008-09-22
174146	MW-12	water	2008-09-20	12:30	2008-09-22
174147	MW-13	water	2008-09-20	15:25	2008-09-22
174148	MW-14	water	2008-09-20	15:45	2008-09-22
174149	MW-15	water	2008-09-20	12:24	2008-09-22
174150	MW-16	water	2008-09-20	12:53	2008-09-22
174151	MW-17	water	2008-09-20	13:10	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.

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 Lovington Deep 6 inch were received by TraceAnalysis, Inc. on 2008-09-22 and assigned to work order 8092210. Samples for work order 8092210 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 8092210 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: 174135 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52654	Date Analyzed:	2008-09-23	Analyzed By:	DC
Prep Batch:	45121	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00610**	mg/L	1	0.00100
Toluene		**0.00250**	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0892	mg/L	1	0.100	89	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0913	mg/L	1	0.100	91	52 - 124.1

Sample: 174135 - MW-1

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52820	Date Analyzed:	2008-09-26	Analyzed By:	DS
Prep Batch:	45266	Sample Preparation:	2008-09-25	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 ...

sample 174135 continued ...

Parameter	Flag	Result	RL	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		0.0719	mg/L	1	0.0800	90	37.4 - 123
2-Fluorobiphenyl		0.0719	mg/L	1	0.0800	90	34.3 - 130
Terphenyl-d14		0.0746	mg/L	1	0.0800	93	10 - 252

Sample: 174136 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52712	Date Analyzed:	2008-09-24	Analyzed By:	DC
Prep Batch:	45164	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**15.4**		mg/L	50	0.00100
Toluene		**7.25**		mg/L	50	0.00100
Ethylbenzene		**0.975**		mg/L	50	0.00100
Xylene		**2.52**		mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.48	mg/L	50	5.00	90	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		4.66	mg/L	50	5.00	93	52 - 124.1

Sample: 174136 - MW-2

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52820	Date Analyzed:	2008-09-26	Analyzed By:	DS
Prep Batch:	45266	Sample Preparation:	2008-09-25	Prepared By:	DS

Parameter	Flag	Result	RL	Units	Dilution	RL
Naphthalene		**0.0581**		mg/L	1	0.000200
2-Methylnaphthalene		**0.0561**		mg/L	1	0.000200
1-Methylnaphthalene		**0.0456**		mg/L	1	0.000200

continued ...

sample 174136 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
Acenaphthylene		<0.000200		mg/L	1	0.000200
Acenaphthene		<0.000200		mg/L	1	0.000200
Dibenzofuran		**0.00168**		mg/L	1	0.000200
Fluorene		**0.00477**		mg/L	1	0.000200
Anthracene		<0.000200		mg/L	1	0.000200
Phenanthrene		**0.00321**		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		**0.000533**		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		0.0721	mg/L	1	0.0800	90	37.4 - 123
2-Fluorobiphenyl		0.0614	mg/L	1	0.0800	77	34.3 - 130
Terphenyl-d14		0.0732	mg/L	1	0.0800	92	10 - 252

Sample: 174136 - MW-2

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

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**6.35**		mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		13.0	mg/L	1	10.0	130	70 - 130

Sample: 174136 - MW-2

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	52720	Date Analyzed:	2008-09-24	Analyzed By:	DC
Prep Batch:	45164	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**71.6**		mg/L	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.68	mg/L	50	5.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)		4.69	mg/L	50	5.00	94	70 - 130

Sample: 174137 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52654	Date Analyzed:	2008-09-23	Analyzed By:	DC
Prep Batch:	45121	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**12.4**		mg/L	100	0.00100
Toluene		**1.19**		mg/L	100	0.00100
Ethylbenzene		**0.782**		mg/L	100	0.00100
Xylene		**0.714**		mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		8.87	mg/L	100	10.0	89	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		9.15	mg/L	100	10.0	92	52 - 124.1

Sample: 174137 - MW-3

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52820	Date Analyzed:	2008-09-26	Analyzed By:	DS
Prep Batch:	45266	Sample Preparation:	2008-09-25	Prepared By:	DS

Parameter	Flag	Result	RL	Units	Dilution	RL
Naphthalene		**0.0393**		mg/L	1	0.000200

continued ...

sample 174137 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
2-Methylnaphthalene		**0.0287**		mg/L	1	0.000200
1-Methylnaphthalene		**0.0292**		mg/L	1	0.000200
Acenaphthylene		<0.000200		mg/L	1	0.000200
Acenaphthene		<0.000200		mg/L	1	0.000200
Dibenzofuran		**0.000935**		mg/L	1	0.000200
Fluorene		**0.00338**		mg/L	1	0.000200
Anthracene		<0.000200		mg/L	1	0.000200
Phenanthrene		**0.00118**		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		0.0640	mg/L	1	0.0800	80	37.4 - 123
2-Fluorobiphenyl		0.0590	mg/L	1	0.0800	74	34.3 - 130
Terphenyl-d14		0.0716	mg/L	1	0.0800	90	10 - 252

Sample: 174138 - MW-4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52654	Date Analyzed:	2008-09-23	Analyzed By:	DC
Prep Batch:	45121	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0757**		mg/L	1	0.00100
Toluene		**0.00930**		mg/L	1	0.00100
Ethylbenzene		**0.00620**		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)		0.0900	mg/L	1	0.100	90	65.1 - 116.8

continued ...

sample continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		0.0923	mg/L	1	0.100	92	52 - 124.1

Sample: 174138 - MW-4

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52820	Date Analyzed:	2008-09-26	Analyzed By:	DS
Prep Batch:	45266	Sample Preparation:	2008-09-25	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		0.0633	mg/L	1	0.0800	79	37.4 - 123
2-Fluorobiphenyl		0.0610	mg/L	1	0.0800	76	34.3 - 130
Terphenyl-d14		0.0708	mg/L	1	0.0800	88	10 - 252

Sample: 174139 - MW-5

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52654	Date Analyzed:	2008-09-23	Analyzed By:	DC
Prep Batch:	45121	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0653**	mg/L	1	0.00100
Toluene		**0.00580**	mg/L	1	0.00100
Ethylbenzene		**0.00390**	mg/L	1	0.00100
Xylene		**0.0469**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0876	mg/L	1	0.100	88	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0917	mg/L	1	0.100	92	52 - 124.1

Sample: 174139 - MW-5

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52820	Date Analyzed:	2008-09-26	Analyzed By:	DS
Prep Batch:	45266	Sample Preparation:	2008-09-25	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		**0.000274**	mg/L	1	0.000200
2-Methylnaphthalene		<0.000200	mg/L	1	0.000200
1-Methylnaphthalene		**0.000548**	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 ...

sample 174139 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		0.0652	mg/L	1	0.0800	82	37.4 - 123
2-Fluorobiphenyl		0.0657	mg/L	1	0.0800	82	34.3 - 130
Terphenyl-d14		0.0732	mg/L	1	0.0800	92	10 - 252

Sample: 174140 - MW-6

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52654	Date Analyzed:	2008-09-23	Analyzed By:	DC
Prep Batch:	45121	Sample Preparation:	2008-09-23	Prepared By:	DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0909	mg/L	1	0.100	91	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0921	mg/L	1	0.100	92	52 - 124.1

Sample: 174140 - MW-6

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52820	Date Analyzed:	2008-09-26	Analyzed By:	DS
Prep Batch:	45266	Sample Preparation:	2008-09-25	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

continued ...

sample 174140 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
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		0.0583	mg/L	1	0.0800	73	37.4 - 123
2-Fluorobiphenyl		0.0605	mg/L	1	0.0800	76	34.3 - 130
Terphenyl-d14		0.0687	mg/L	1	0.0800	86	10 - 252

Sample: 174141 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52654	Date Analyzed:	2008-09-23	Analyzed By:	DC
Prep Batch:	45121	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	Result	RL	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)		0.0866	mg/L	1	0.100	87	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0880	mg/L	1	0.100	88	52 - 124.1

Sample: 174141 - MW-7

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52849	Date Analyzed:	2008-09-29	Analyzed By:	DS
Prep Batch:	45290	Sample Preparation:	2008-09-26	Prepared By:	DS

Parameter	Flag	Result	RL 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		0.0650	mg/L	1	0.0800	81	37.4 - 123
2-Fluorobiphenyl		0.0610	mg/L	1	0.0800	76	34.3 - 130
Terphenyl-d14		0.0741	mg/L	1	0.0800	93	10 - 252

Sample: 174142 - MW-8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52654	Date Analyzed:	2008-09-23	Analyzed By:	DC
Prep Batch:	45121	Sample Preparation:	2008-09-23	Prepared By:	DC

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

continued ...

sample 174142 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
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)		0.0897	mg/L	1	0.100	90	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0908	mg/L	1	0.100	91	52 - 124.1

Sample: 174142 - MW-8

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52849	Date Analyzed:	2008-09-29	Analyzed By:	DS
Prep Batch:	45290	Sample Preparation:	2008-09-26	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		0.0668	mg/L	1	0.0800	84	37.4 - 123
2-Fluorobiphenyl		0.0599	mg/L	1	0.0800	75	34.3 - 130
Terphenyl-d14		0.0722	mg/L	1	0.0800	90	10 - 252

Sample: 174143 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52654	Date Analyzed:	2008-09-23	Analyzed By:	DC
Prep Batch:	45121	Sample Preparation:	2008-09-23	Prepared By:	DC

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)		0.0870	mg/L	1	0.100	87	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0886	mg/L	1	0.100	89	52 - 124.1

Sample: 174143 - MW-9

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52849	Date Analyzed:	2008-09-29	Analyzed By:	DS
Prep Batch:	45290	Sample Preparation:	2008-09-26	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 ...

sample 174143 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		0.0637	mg/L	1	0.0800	80	37.4 - 123
2-Fluorobiphenyl		0.0606	mg/L	1	0.0800	76	34.3 - 130
Terphenyl-d14		0.0696	mg/L	1	0.0800	87	10 - 252

Sample: 174144 - MW-10

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52654	Date Analyzed:	2008-09-23	Analyzed By:	DC
Prep Batch:	45121	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**7.70**	mg/L	50	0.00100
Toluene		<0.0500	mg/L	50	0.00100
Ethylbenzene		<0.0500	mg/L	50	0.00100
Xylene		<0.0500	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.43	mg/L	50	5.00	89	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		4.52	mg/L	50	5.00	90	52 - 124.1

Sample: 174144 - MW-10

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52849	Date Analyzed:	2008-09-29	Analyzed By:	DS
Prep Batch:	45290	Sample Preparation:	2008-09-26	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		**0.00709**	mg/L	1	0.000200
2-Methylnaphthalene		**0.00343**	mg/L	1	0.000200
1-Methylnaphthalene		**0.00979**	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200

continued ...

sample 174144 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
Dibenzofuran		**0.000517**		mg/L	1	0.000200
Fluorene		**0.00126**		mg/L	1	0.000200
Anthracene		<0.000200		mg/L	1	0.000200
Phenanthrene		**0.000618**		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		0.0659	mg/L	1	0.0800	82	37.4 - 123
2-Fluorobiphenyl		0.0602	mg/L	1	0.0800	75	34.3 - 130
Terphenyl-d14		0.0718	mg/L	1	0.0800	90	10 - 252

Sample: 174145 - MW-11

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52654	Date Analyzed:	2008-09-23	Analyzed By:	DC
Prep Batch:	45121	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.00110**		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)		0.0922	mg/L	1	0.100	92	52 - 124.1

Sample: 174145 - MW-11

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52849	Date Analyzed:	2008-09-29	Analyzed By:	DS
Prep Batch:	45290	Sample Preparation:	2008-09-26	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		0.0633	mg/L	1	0.0800	79	37.4 - 123
2-Fluorobiphenyl		0.0557	mg/L	1	0.0800	70	34.3 - 130
Terphenyl-d14		0.0717	mg/L	1	0.0800	90	10 - 252

Sample: 174146 - MW-12

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52654	Date Analyzed:	2008-09-23	Analyzed By:	DC
Prep Batch:	45121	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.791**	mg/L	15	0.00100
Toluene		<0.0150	mg/L	15	0.00100

continued ...

sample 174146 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		**0.0478**	mg/L	15	0.00100
Xylene		**0.0517**	mg/L	15	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.38	mg/L	15	1.50	92	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		1.40	mg/L	15	1.50	93	52 - 124.1

Sample: 174146 - MW-12

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52849	Date Analyzed:	2008-09-29	Analyzed By:	DS
Prep Batch:	45290	Sample Preparation:	2008-09-26	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		**0.00353**	mg/L	1	0.000200
2-Methylnaphthalene		**0.00355**	mg/L	1	0.000200
1-Methylnaphthalene		**0.00405**	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		0.0530	mg/L	1	0.0800	66	37.4 - 123
2-Fluorobiphenyl		0.0556	mg/L	1	0.0800	70	34.3 - 130
Terphenyl-d14		0.0676	mg/L	1	0.0800	84	10 - 252

Sample: 174147 - MW-13

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52712	Date Analyzed:	2008-09-24	Analyzed By:	DC
Prep Batch:	45164	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**12.7**	mg/L	100	0.00100
Toluene		**8.43**	mg/L	100	0.00100
Ethylbenzene		**1.10**	mg/L	100	0.00100
Xylene		**2.89**	mg/L	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		8.66	mg/L	100	10.0	87	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		8.98	mg/L	100	10.0	90	52 - 124.1

Sample: 174147 - MW-13

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52849	Date Analyzed:	2008-09-29	Analyzed By:	DS
Prep Batch:	45290	Sample Preparation:	2008-09-26	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene	[1]	**0.106**	mg/L	1	0.000200
2-Methylnaphthalene	[2]	**0.236**	mg/L	1	0.000200
1-Methylnaphthalene	[3]	**0.198**	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		**0.00710**	mg/L	1	0.000200
Fluorene		**0.0222**	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		**0.0195**	mg/L	1	0.000200
Fluoranthene		**0.00105**	mg/L	1	0.000200
Pyrene		**0.00862**	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

continued ...

[1]Estimated concentration value greater than standard range.
[2]Estimated concentration value greater than standard range.
[3]Estimated concentration value greater than standard range.

sample 174147 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
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		0.0652	mg/L	1	0.0800	82	37.4 - 123
2-Fluorobiphenyl		0.0575	mg/L	1	0.0800	72	34.3 - 130
Terphenyl-d14	[4]	0.542	mg/L	1	0.0800	678	10 - 252

Sample: 174147 - MW-13

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52764	Date Analyzed:	2008-09-27	Analyzed By:	LD
Prep Batch:	45205	Sample Preparation:	2008-09-26	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**49.4**	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		9.12	mg/L	1	10.0	91	70 - 130

Sample: 174147 - MW-13

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	52720	Date Analyzed:	2008-09-24	Analyzed By:	DC
Prep Batch:	45164	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**72.2**	mg/L	100	0.100

[4] 8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		9.10	mg/L	100	10.0	91	70 - 130
4-Bromofluorobenzene (4-BFB)		9.06	mg/L	100	10.0	91	70 - 130

Sample: 174148 - MW-14

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52712	Date Analyzed:	2008-09-24	Analyzed By:	DC
Prep Batch:	45164	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**14.5**	mg/L	50	0.00100
Toluene		**8.66**	mg/L	50	0.00100
Ethylbenzene		**1.10**	mg/L	50	0.00100
Xylene		**2.76**	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.78	mg/L	50	5.00	96	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		4.90	mg/L	50	5.00	98	52 - 124.1

Sample: 174148 - MW-14

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52849	Date Analyzed:	2008-09-29	Analyzed By:	DS
Prep Batch:	45290	Sample Preparation:	2008-09-26	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		**0.0471**	mg/L	1	0.000200
2-Methylnaphthalene		**0.0441**	mg/L	1	0.000200
1-Methylnaphthalene		**0.0362**	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		**0.00141**	mg/L	1	0.000200
Fluorene		**0.00396**	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		**0.00249**	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

continued ...

sample 174148 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Chrysene		**0.000337**	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		0.0569	mg/L	1	0.0800	71	37.4 - 123
2-Fluorobiphenyl		0.0509	mg/L	1	0.0800	64	34.3 - 130
Terphenyl-d14		0.0717	mg/L	1	0.0800	90	10 - 252

Sample: 174148 - MW-14

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52764	Date Analyzed:	2008-09-27	Analyzed By:	LD
Prep Batch:	45205	Sample Preparation:	2008-09-26	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**7.44**	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[5]	13.7	mg/L	1	10.0	137	70 - 130

Sample: 174148 - MW-14

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	52720	Date Analyzed:	2008-09-24	Analyzed By:	DC
Prep Batch:	45164	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**71.6**	mg/L	50	0.100

[5]High surrogate recovery. Sample non-detect, result bias high.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5.00	mg/L	50	5.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)		4.96	mg/L	50	5.00	99	70 - 130

Sample: 174149 - MW-15

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52712	Date Analyzed:	2008-09-24	Analyzed By:	DC
Prep Batch:	45164	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**4.87**	mg/L	50	0.00100
Toluene		**2.17**	mg/L	50	0.00100
Ethylbenzene		**0.480**	mg/L	50	0.00100
Xylene		**1.43**	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.39	mg/L	50	5.00	88	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		4.52	mg/L	50	5.00	90	52 - 124.1

Sample: 174149 - MW-15

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52849	Date Analyzed:	2008-09-29	Analyzed By:	DS
Prep Batch:	45290	Sample Preparation:	2008-09-26	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		**0.0451**	mg/L	1	0.000200
2-Methylnaphthalene		**0.0902**	mg/L	1	0.000200
1-Methylnaphthalene		**0.0817**	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		**0.00319**	mg/L	1	0.000200
Fluorene		**0.0111**	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		**0.00866**	mg/L	1	0.000200
Fluoranthene		**0.000418**	mg/L	1	0.000200
Pyrene		**0.000670**	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200

continued ...

sample 174149 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
Chrysene		**0.00145**		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		0.0700	mg/L	1	0.0800	88	37.4 - 123
2-Fluorobiphenyl		0.0561	mg/L	1	0.0800	70	34.3 - 130
Terphenyl-d14		0.0757	mg/L	1	0.0800	95	10 - 252

Sample: 174149 - MW-15

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52764	Date Analyzed:	2008-09-27	Analyzed By:	LD
Prep Batch:	45205	Sample Preparation:	2008-09-26	Prepared By:	LD

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**57.5**		mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		12.1	mg/L	1	10.0	121	70 - 130

Sample: 174149 - MW-15

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	52720	Date Analyzed:	2008-09-24	Analyzed By:	DC
Prep Batch:	45164	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**27.2**		mg/L	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.58	mg/L	50	5.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)		4.57	mg/L	50	5.00	91	70 - 130

Sample: 174150 - MW-16

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52712	Date Analyzed:	2008-09-24	Analyzed By:	DC
Prep Batch:	45164	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**3.45**	mg/L	20	0.00100
Toluene		**2.63**	mg/L	20	0.00100
Ethylbenzene		**0.476**	mg/L	20	0.00100
Xylene		**1.21**	mg/L	20	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.79	mg/L	20	2.00	90	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		1.85	mg/L	20	2.00	92	52 - 124.1

Sample: 174150 - MW-16

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52849	Date Analyzed:	2008-09-29	Analyzed By:	DS
Prep Batch:	45290	Sample Preparation:	2008-09-26	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		**0.0239**	mg/L	1	0.000200
2-Methylnaphthalene		**0.0230**	mg/L	1	0.000200
1-Methylnaphthalene		**0.0202**	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		**0.00103**	mg/L	1	0.000200
Fluorene		**0.00303**	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		**0.00209**	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

continued ...

sample 174150 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
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		0.0480	mg/L	1	0.0800	60	37.4 - 123
2-Fluorobiphenyl		0.0446	mg/L	1	0.0800	56	34.3 - 130
Terphenyl-d14		0.0686	mg/L	1	0.0800	86	10 - 252

Sample: 174150 - MW-16

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52764	Date Analyzed:	2008-09-27	Analyzed By:	LD
Prep Batch:	45205	Sample Preparation:	2008-09-26	Prepared By:	LD

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		11.1	mg/L	1	10.0	111	70 - 130

Sample: 174150 - MW-16

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	52720	Date Analyzed:	2008-09-24	Analyzed By:	DC
Prep Batch:	45164	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**21.8**		mg/L	20	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.87	mg/L	20	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)		1.90	mg/L	20	2.00	95	70 - 130

Sample: 174151 - MW-17

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	52712	Date Analyzed:	2008-09-24	Analyzed By:	DC
Prep Batch:	45164	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**14.5**	mg/L	50	0.00100
Toluene		**9.60**	mg/L	50	0.00100
Ethylbenzene		**1.04**	mg/L	50	0.00100
Xylene		**2.63**	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.52	mg/L	50	5.00	90	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		4.66	mg/L	50	5.00	93	52 - 124.1

Sample: 174151 - MW-17

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	52849	Date Analyzed:	2008-09-29	Analyzed By:	DS
Prep Batch:	45290	Sample Preparation:	2008-09-26	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		**0.0585**	mg/L	1	0.000200
2-Methylnaphthalene		**0.0773**	mg/L	1	0.000200
1-Methylnaphthalene		**0.0643**	mg/L	1	0.000200
Acenaphthylene		<0.000200	mg/L	1	0.000200
Acenaphthene		<0.000200	mg/L	1	0.000200
Dibenzofuran		**0.00256**	mg/L	1	0.000200
Fluorene		**0.00800**	mg/L	1	0.000200
Anthracene		<0.000200	mg/L	1	0.000200
Phenanthrene		**0.00625**	mg/L	1	0.000200
Fluoranthene		**0.000305**	mg/L	1	0.000200
Pyrene		<0.000200	mg/L	1	0.000200
Benzo(a)anthracene		<0.000200	mg/L	1	0.000200

continued ...

sample 174151 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
Chrysene		**0.00108**		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		0.0703	mg/L	1	0.0800	88	37.4 - 123
2-Fluorobiphenyl		0.0557	mg/L	1	0.0800	70	34.3 - 130
Terphenyl-d14		0.0762	mg/L	1	0.0800	95	10 - 252

Sample: 174151 - MW-17

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	52764	Date Analyzed:	2008-09-27	Analyzed By:	LD
Prep Batch:	45205	Sample Preparation:	2008-09-26	Prepared By:	LD

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**8.95**		mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		10.7	mg/L	1	10.0	107	70 - 130

Sample: 174151 - MW-17

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	52720	Date Analyzed:	2008-09-24	Analyzed By:	DC
Prep Batch:	45164	Sample Preparation:	2008-09-23	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**73.8**		mg/L	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.76	mg/L	50	5.00	95	70 - 130
4-Bromofluorobenzene (4-BFB)		4.76	mg/L	50	5.00	95	70 - 130

Method Blank (1) QC Batch: 52654

QC Batch: 52654 | Date Analyzed: 2008-09-23 | Analyzed By: DC
Prep Batch: 45121 | QC Preparation: 2008-09-23 | 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: 52712

QC Batch: 52712 | Date Analyzed: 2008-09-24 | Analyzed By: DC
Prep Batch: 45164 | QC Preparation: 2008-09-23 | 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)		0.0882	mg/L	1	0.100	88	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0886	mg/L	1	0.100	89	37.1 - 130.9

Method Blank (1) QC Batch: 52720

QC Batch: 52720 | Date Analyzed: 2008-09-24 | Analyzed By: DC
Prep Batch: 45164 | QC Preparation: 2008-09-23 | Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
GRO		0.0899	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0903	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0880	mg/L	1	0.100	88	50 - 130

Method Blank (1) QC Batch: 52748

QC Batch: 52748 Date Analyzed: 2008-09-26 Analyzed By: LD
Prep Batch: 45205 QC Preparation: 2008-09-26 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: 52764

QC Batch: 52764 Date Analyzed: 2008-09-27 Analyzed By: LD
Prep Batch: 45205 QC Preparation: 2008-09-26 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		12.4	mg/L	1	10.0	124	70 - 130

Method Blank (1) QC Batch: 52820

QC Batch: 52820 Date Analyzed: 2008-09-26 Analyzed By: DS
Prep Batch: 45266 QC Preparation: 2008-09-25 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

Method Blank (1) QC Batch: 52849

QC Batch: 52849 | Date Analyzed: 2008-09-29 | Analyzed By: DS
Prep Batch: 45290 | QC Preparation: 2008-09-26 | 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

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
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		0.0582	mg/L	1	0.0800	73	10 - 146
2-Fluorobiphenyl		0.0489	mg/L	1	0.0800	61	10 - 141
Terphenyl-d14		0.0665	mg/L	1	0.0800	83	10 - 266

Laboratory Control Spike (LCS-1)

QC Batch: 52654 | Date Analyzed: 2008-09-23 | Analyzed By: DC
Prep Batch: 45121 | QC Preparation: 2008-09-23 | 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: 52712 | Date Analyzed: 2008-09-24 | Analyzed By: DC
Prep Batch: 45164 | QC Preparation: 2008-09-23 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.102	mg/L	1	0.100	<0.000500	102	71.7 - 120.5
Toluene	0.104	mg/L	1	0.100	<0.000700	104	75.4 - 118.8
Ethylbenzene	0.103	mg/L	1	0.100	<0.000700	103	73.5 - 118
Xylene	0.313	mg/L	1	0.300	<0.00180	104	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	0.104	mg/L	1	0.100	<0.000500	104	71.7 - 120.5	2	20
Toluene	0.106	mg/L	1	0.100	<0.000700	106	75.4 - 118.8	2	20
Ethylbenzene	0.104	mg/L	1	0.100	<0.000700	104	73.5 - 118	1	20
Xylene	0.317	mg/L	1	0.300	<0.00180	106	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)	0.0912	0.0958	mg/L	1	0.100	91	96	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0957	0.0998	mg/L	1	0.100	96	100	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 52720 | Date Analyzed: 2008-09-24 | Analyzed By: DC
Prep Batch: 45164 | QC Preparation: 2008-09-23 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	0.788	mg/L	1	1.00	0.0899	70	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	0.790	mg/L	1	1.00	0.0899	70	70 - 130	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0969	0.0919	mg/L	1	0.100	97	92	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0957	0.0924	mg/L	1	0.100	96	92	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 52748 | Date Analyzed: 2008-09-26 | Analyzed By: LD
Prep Batch: 45205 | QC Preparation: 2008-09-26 | 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: 52764 | Date Analyzed: 2008-09-27 | Analyzed By: LD
Prep Batch: 45205 | QC Preparation: 2008-09-26 | Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	24.9	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	23.4	mg/L	1	25.0	<2.44	94	70 - 130	6	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	10.5	10.7	mg/L	1	10.0	105	107	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 52820 | Date Analyzed: 2008-09-26 | Analyzed By: DS
Prep Batch: 45266 | QC Preparation: 2008-09-25 | 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
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

Laboratory Control Spike (LCS-1)

QC Batch: 52849 | Date Analyzed: 2008-09-29 | Analyzed By: DS
Prep Batch: 45290 | QC Preparation: 2008-09-26 | Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0566	mg/L	1	0.0800	<0.0000730	71	10 - 141
2-Methylnaphthalene	0.0587	mg/L	1	0.0800	<0.0000509	73	50 - 150
1-Methylnaphthalene	0.0582	mg/L	1	0.0800	<0.0000748	73	50 - 150
Acenaphthylene	0.0703	mg/L	1	0.0800	<0.0000767	88	10 - 152
Acenaphthene	0.0666	mg/L	1	0.0800	<0.000142	83	10 - 151
Dibenzofuran	0.0663	mg/L	1	0.0800	<0.0000470	83	10 - 148
Fluorene	0.0775	mg/L	1	0.0800	<0.0000569	97	10 - 172
Anthracene	0.0692	mg/L	1	0.0800	<0.0000876	86	22.5 - 172
Phenanthrene	0.0691	mg/L	1	0.0800	<0.0000552	86	19.6 - 172
Fluoranthene	0.0748	mg/L	1	0.0800	<0.0000954	94	17.3 - 187
Pyrene	0.0715	mg/L	1	0.0800	<0.0000497	89	14.9 - 199
Benzo(a)anthracene	0.0690	mg/L	1	0.0800	<0.0000328	86	19.4 - 185
Chrysene	0.0733	mg/L	1	0.0800	<0.0000990	92	18.4 - 188
Benzo(b)fluoranthene	0.0719	mg/L	1	0.0800	<0.0000684	90	10 - 193
Benzo(k)fluoranthene	0.0748	mg/L	1	0.0800	<0.0000830	94	27.8 - 196
Benzo(a)pyrene	0.0812	mg/L	1	0.0800	<0.0000549	102	12.4 - 205
Indeno(1,2,3-cd)pyrene	0.0847	mg/L	1	0.0800	<0.0000869	106	10 - 198
Dibenzo(a,h)anthracene	0.0847	mg/L	1	0.0800	<0.0000605	106	10 - 172
Benzo(g,h,i)perylene	0.0839	mg/L	1	0.0800	<0.0000681	105	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	0.0588	mg/L	1	0.0800	<0.0000730	74	10 - 141	4	20
2-Methylnaphthalene	0.0596	mg/L	1	0.0800	<0.0000509	74	50 - 150	2	20
1-Methylnaphthalene	0.0587	mg/L	1	0.0800	<0.0000748	73	50 - 150	1	20
Acenaphthylene	0.0740	mg/L	1	0.0800	<0.0000767	92	10 - 152	5	20
Acenaphthene	0.0699	mg/L	1	0.0800	<0.000142	87	10 - 151	5	20
Dibenzofuran	0.0698	mg/L	1	0.0800	<0.0000470	87	10 - 148	5	20
Fluorene	0.0800	mg/L	1	0.0800	<0.0000569	100	10 - 172	3	20
Anthracene	0.0713	mg/L	1	0.0800	<0.0000876	89	22.5 - 172	3	20
Phenanthrene	0.0712	mg/L	1	0.0800	<0.0000552	89	19.6 - 172	3	20
Fluoranthene	0.0781	mg/L	1	0.0800	<0.0000954	98	17.3 - 187	4	20

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control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Pyrene	0.0758	mg/L	1	0.0800	<0.0000497	95	14.9 - 199	6	20
Benzo(a)anthracene	0.0726	mg/L	1	0.0800	<0.0000328	91	19.4 - 185	5	20
Chrysene	0.0765	mg/L	1	0.0800	<0.0000990	96	18.4 - 188	4	20
Benzo(b)fluoranthene	0.0755	mg/L	1	0.0800	<0.0000684	94	10 - 193	5	20
Benzo(k)fluoranthene	0.0776	mg/L	1	0.0800	<0.0000830	97	27.8 - 196	4	20
Benzo(a)pyrene	0.0850	mg/L	1	0.0800	<0.0000549	106	12.4 - 205	5	20
Indeno(1,2,3-cd)pyrene	0.0895	mg/L	1	0.0800	<0.0000869	112	10 - 198	6	20
Dibenzo(a,h)anthracene	0.0888	mg/L	1	0.0800	<0.0000605	111	10 - 172	5	20
Benzo(g,h,i)perylene	0.0879	mg/L	1	0.0800	<0.0000681	110	10 - 186	5	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	0.0675	0.0696	mg/L	1	0.0800	84	87	10 - 165
2-Fluorobiphenyl	0.0618	0.0674	mg/L	1	0.0800	77	84	10 - 157
Terphenyl-d14	0.0754	0.0797	mg/L	1	0.0800	94	100	10 - 220

Matrix Spike (MS-1) Spiked Sample: 174071

QC Batch: 52654 | Date Analyzed: 2008-09-23 | Analyzed By: DC
Prep Batch: 45121 | QC Preparation: 2008-09-23 | 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: 174136

QC Batch: 52712 | Date Analyzed: 2008-09-24 | Analyzed By: DC
Prep Batch: 45164 | QC Preparation: 2008-09-23 | Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	20.8	mg/L	50	5.00	15.4129	108	10 - 160.8
Toluene	12.5	mg/L	50	5.00	7.2486	105	10 - 160.7
Ethylbenzene	5.88	mg/L	50	5.00	0.9752	98	10 - 158.3
Xylene	17.2	mg/L	50	15.0	2.5159	98	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	20.2	mg/L	50	5.00	15.4129	96	10 - 160.8	3	20
Toluene	12.2	mg/L	50	5.00	7.2486	99	10 - 160.7	2	20
Ethylbenzene	5.84	mg/L	50	5.00	0.9752	97	10 - 158.3	1	20
Xylene	17.0	mg/L	50	15.0	2.5159	96	10 - 158	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	4.59	4.44	mg/L	50	5	92	89	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	4.90	4.68	mg/L	50	5	98	94	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 174151

QC Batch: 52720 | Date Analyzed: 2008-09-24 | Analyzed By: DC
Prep Batch: 45164 | QC Preparation: 2008-09-23 | Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	119	mg/L	50	50.0	73.8192	90	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	114	mg/L	50	50.0	73.8192	80	70 - 130	4	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)	4.82	4.63	mg/L	50	5	96	93	70 - 130
4-Bromofluorobenzene (4-BFB)	4.97	4.78	mg/L	50	5	99	96	70 - 130

Matrix Spike (MS-1) Spiked Sample: 173739

QC Batch: 52748 | Date Analyzed: 2008-09-26 | Analyzed By: LD
Prep Batch: 45205 | QC Preparation: 2008-09-26 | 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.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane [6] [7]	14.2	13.6	mg/L	1	10	142	136	70 - 130

Matrix Spike (MS-1) Spiked Sample: 174147

QC Batch: 52764 | Date Analyzed: 2008-09-27 | Analyzed By: LD
Prep Batch: 45205 | QC Preparation: 2008-09-26 | Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	70.3	mg/L	1	25.0	49.43	83	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	81.1	mg/L	1	25.0	49.43	127	70 - 130	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
n-Triacontane	10.0	10.3	mg/L	1	10	100	103	70 - 130

Standard (ICV-1)

QC Batch: 52654 | Date Analyzed: 2008-09-23 | Analyzed By: DC

[6] High surrogate recovery due to peak interference.
[7] High surrogate recovery due to peak interference.

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 (ICV-1)

QC Batch: 52712 Date Analyzed: 2008-09-24 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	0.104	104	85 - 115	2008-09-24
Toluene		mg/L	0.100	0.106	106	85 - 115	2008-09-24
Ethylbenzene		mg/L	0.100	0.0998	100	85 - 115	2008-09-24
Xylene		mg/L	0.300	0.306	102	85 - 115	2008-09-24

Standard (CCV-1)

QC Batch: 52712 Date Analyzed: 2008-09-24 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	2008-09-24
Toluene		mg/L	0.100	0.0900	90	85 - 115	2008-09-24
Ethylbenzene		mg/L	0.100	0.0889	89	85 - 115	2008-09-24
Xylene		mg/L	0.300	0.271	90	85 - 115	2008-09-24

Standard (ICV-1)

QC Batch: 52720 Date Analyzed: 2008-09-24 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	1.14	114	85 - 115	2008-09-24

Standard (CCV-1)

QC Batch: 52720 Date Analyzed: 2008-09-24 Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.07	107	85 - 115	2008-09-24

Standard (CCV-2)

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	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 (ICV-1)

QC Batch: 52764 Date Analyzed: 2008-09-27 Analyzed By: LD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	238	95	85 - 115	2008-09-27

Standard (CCV-1)

QC Batch: 52764 Date Analyzed: 2008-09-27 Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	222	89	85 - 115	2008-09-27

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

Standard (CCV-1)

QC Batch: 52849 Date Analyzed: 2008-09-29 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	56.4	94	80 - 120	2008-09-29
2-Methylnaphthalene		mg/L	60.0	52.3	87	80 - 120	2008-09-29
1-Methylnaphthalene		mg/L	60.0	53.4	89	80 - 120	2008-09-29
Acenaphthylene		mg/L	60.0	59.4	99	80 - 120	2008-09-29
Acenaphthene		mg/L	60.0	58.5	98	80 - 120	2008-09-29
Dibenzofuran		mg/L	60.0	61.9	103	80 - 120	2008-09-29
Fluorene		mg/L	60.0	68.5	114	80 - 120	2008-09-29
Anthracene		mg/L	60.0	58.8	98	80 - 120	2008-09-29
Phenanthrene		mg/L	60.0	56.6	94	80 - 120	2008-09-29
Fluoranthene		mg/L	60.0	57.8	96	80 - 120	2008-09-29
Pyrene		mg/L	60.0	59.2	99	80 - 120	2008-09-29
Benzo(a)anthracene		mg/L	60.0	56.3	94	80 - 120	2008-09-29
Chrysene		mg/L	60.0	58.3	97	80 - 120	2008-09-29
Benzo(b)fluoranthene		mg/L	60.0	60.8	101	80 - 120	2008-09-29
Benzo(k)fluoranthene		mg/L	60.0	60.5	101	80 - 120	2008-09-29
Benzo(a)pyrene		mg/L	60.0	64.4	107	80 - 120	2008-09-29
Indeno(1,2,3-cd)pyrene		mg/L	60.0	69.2	115	80 - 120	2008-09-29
Dibenzo(a,h)anthracene		mg/L	60.0	68.9	115	80 - 120	2008-09-29
Benzo(g,h,i)perylene		mg/L	60.0	67.1	112	80 - 120	2008-09-29

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		61.2	mg/L	1	60.0	102	80 - 120
2-Fluorobiphenyl		56.0	mg/L	1	60.0	93	80 - 120
Terphenyl-d14		59.0	mg/L	1	60.0	98	80 - 120

Standard (CCV-2)

QC Batch: 52849 | Date Analyzed: 2008-09-29 | 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	56.8	95	80 - 120	2008-09-29
2-Methylnaphthalene		mg/L	60.0	52.9	88	80 - 120	2008-09-29
1-Methylnaphthalene		mg/L	60.0	54.2	90	80 - 120	2008-09-29
Acenaphthylene		mg/L	60.0	59.2	99	80 - 120	2008-09-29
Acenaphthene		mg/L	60.0	58.6	98	80 - 120	2008-09-29
Dibenzofuran		mg/L	60.0	62.5	104	80 - 120	2008-09-29
Fluorene		mg/L	60.0	69.8	116	80 - 120	2008-09-29
Anthracene		mg/L	60.0	59.0	98	80 - 120	2008-09-29
Phenanthrene		mg/L	60.0	57.2	95	80 - 120	2008-09-29
Fluoranthene		mg/L	60.0	56.6	94	80 - 120	2008-09-29
Pyrene		mg/L	60.0	59.7	100	80 - 120	2008-09-29

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzo(a)anthracene		mg/L	60.0	55.4	92	80 - 120	2008-09-29
Chrysene		mg/L	60.0	58.0	97	80 - 120	2008-09-29
Benzo(b)fluoranthene		mg/L	60.0	60.3	100	80 - 120	2008-09-29
Benzo(k)fluoranthene		mg/L	60.0	60.4	101	80 - 120	2008-09-29
Benzo(a)pyrene		mg/L	60.0	63.9	106	80 - 120	2008-09-29
Indeno(1,2,3-cd)pyrene		mg/L	60.0	69.6	116	80 - 120	2008-09-29
Dibenzo(a,h)anthracene		mg/L	60.0	69.2	115	80 - 120	2008-09-29
Benzo(g,h,i)perylene		mg/L	60.0	68.5	114	80 - 120	2008-09-29

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		61.8	mg/L	1	60.0	103	80 - 120
2-Fluorobiphenyl		54.3	mg/L	1	60.0	90	80 - 120
Terphenyl-d14		59.1	mg/L	1	60.0	98	80 - 120

LAB Order ID # 8092210 Page 1 of 2

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

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

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: (Street, City, Zip) 2901 Rankin Hwy.
Fax #:
Contact Person: Shanna Smith
E-mail: ssmith@talonlpe.com
Invoice to: (If different from above) Camille Byrant (PLAINS) SRS# 2002-10312
Project #: PLAINS0046SPL
Project Name: Deep6
Project Location (including state): Lovington, N.M.
Sampler Signature: Joshua Batten Carl Vessels

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(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	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
174135	mw-1	4	VOA / 1L	x				x				x		9/20/08	1305		x		~~x~~	x														
136	mw-2	6	↓	x				x				x		↓	1400		x		x	x														
137	mw-3	4	↓	x				x				x		↓	1319		x			x														
138	mw-4	4	↓	x				x				x		↓	1333		x			x														
139	mw-5	4	↓	x				x				x		↓	1343		x			x														
140	mw-6	4	↓	x				x				x		↓	1010		x			x														
141	mw-7	4	↓	x				x				x		↓	1050		x			x														
142	mw-8	4	↓	x				x				x		↓	1030		x			x														
143	mw-9	4	↓	x				x				x		↓	1120		x			x														
144	mw-10	4	↓	x				x				x		↓	1135		x			x														
145	mw-11	4	↓	x				x				x		↓	1200		x			x														

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
[signature]	Talon/LPE	9/22/08	0745	[signature]	Trace	9.22.08	745	
	TRACE	9/22/08	1600					

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-in Review

REMARKS:
BTEX, 8015 - Midland
PAH - Lubbock

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

Carrier # Cargo / Lone Star

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

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LAB ORDER ID # 8092210

TraceAnalysis, Inc.

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6701 Aberdeen Avenue, Suite 9
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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: (Street, City, Zip) 2901 Rankin Hwy
Fax #:
Contact Person: Shanna Smith
E-mail: ssmith@talonlpe.com
Invoice to: (If different from above) Camille Byrant PLAINS SRS# 2002-10312
Project #: PLAINS0466SPL
Project Name: Deep 6
Project Location (including state): Lovington, N.M.
Sampler Signature: Joshua Batten / Carl Vessels

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(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	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
174146	mw-12	4	VOA 1 Hr.	x				x				x		9/20/08	1230		X			X														
147	mw-13	6	↓	x				x				x		9/20/08	1525		X		X	x														
148	mw-14	6	↓	x				x				x		9/20/08	1545		X		x	x														
149	mw-15	6	↓	x				x				x		9/20/08	1224		x		x	x														
150	mw-16	6	↓	x				x				x		9/20/08	1253		x		x	x														
151	mw-17	6	↓	x				x				x		9/20/08	1310		x		x	x														

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
[signature]	Talon LPE	9/22/08	0745	[signature]	Trace	9.22.08	7:45	
Relinquished by:	Company: TRACE	Date: 9/22/08	Time: 1600	Received by:	Company:	Date:	Time:	Temp°c:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:

LAB USE ONLY
Intact (Y) / N
Headspace Y / N / NA
2.1°C
Log-in Review

REMARKS:
BTEX, 8015 - Midland
PAH - Lubbock

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

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

Carrier # Carry In / Lone Star

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TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

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

NELAP Certifications

Lubbock: T104704219-08-TX 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-Amarillo
921 North Bivins
Amarillo, TX, 79107

Report Date: December 31, 2008

Work Order: 8122403

Project Location: Lovington, NM
Project Name: Lovington Deep 6 inch
Project Number: Plains046SPL
SRS #: 2002-10312

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
183537	MW-6	water	2008-12-23	13:11	2008-12-24
183538	MW-1	water	2008-12-23	13:22	2008-12-24
183539	MW-7	water	2008-12-23	13:16	2008-12-24
183540	MW-8	water	2008-12-23	13:13	2008-12-24
183541	MW-5	water	2008-12-23	13:24	2008-12-24
183542	MW-9	water	2008-12-23	13:30	2008-12-24
183543	MW-12	water	2008-12-23	13:37	2008-12-24
183544	MW-10	water	2008-12-23	13:39	2008-12-24
183545	MW-11	water	2008-12-23	13:34	2008-12-24

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
183546	MW-4	water	2008-12-23	13:28	2008-12-24
183547	MW-3	water	2008-12-23	13:19	2008-12-24

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

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 Lovington Deep 6 inch were received by TraceAnalysis, Inc. on 2008-12-24 and assigned to work order 8122403. Samples for work order 8122403 were received intact without headspace and at a temperature of 3.5 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 8122403 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: 183537 - MW-6

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	55589	Date Analyzed:	2008-12-29	Analyzed By:	ME
Prep Batch:	47506	Sample Preparation:	2008-12-29	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	52 - 124.1

Sample: 183538 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	55589	Date Analyzed:	2008-12-29	Analyzed By:	ME
Prep Batch:	47506	Sample Preparation:	2008-12-29	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00140**	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)		0.101	mg/L	1	0.100	101	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	52 - 124.1

Sample: 183539 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	55589	Date Analyzed:	2008-12-29	Analyzed By:	ME
Prep Batch:	47506	Sample Preparation:	2008-12-29	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	52 - 124.1

Sample: 183540 - MW-8

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	55589	Date Analyzed:	2008-12-29	Analyzed By:	ME
Prep Batch:	47506	Sample Preparation:	2008-12-29	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	52 - 124.1

Sample: 183541 - MW-5

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	55589	Date Analyzed:	2008-12-29	Analyzed By:	ME
Prep Batch:	47506	Sample Preparation:	2008-12-29	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00360**	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		**0.0117**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.110	mg/L	1	0.100	110	52 - 124.1

Sample: 183542 - MW-9

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	55589	Date Analyzed:	2008-12-29	Analyzed By:	ME
Prep Batch:	47506	Sample Preparation:	2008-12-29	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.107	mg/L	1	0.100	107	52 - 124.1

Sample: 183543 - MW-12

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	55638	Date Analyzed:	2008-12-30	Analyzed By:	ME
Prep Batch:	47550	Sample Preparation:	2008-12-30	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.840**	mg/L	10	0.00100
Toluene		<0.0100	mg/L	10	0.00100
Ethylbenzene		**0.0372**	mg/L	10	0.00100
Xylene		**0.0452**	mg/L	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.988	mg/L	10	1.00	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.966	mg/L	10	1.00	97	52 - 124.1

Sample: 183544 - MW-10

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	55638	Date Analyzed:	2008-12-30	Analyzed By:	ME
Prep Batch:	47550	Sample Preparation:	2008-12-30	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**10.2**		mg/L	50	0.00100
Toluene		<0.0500		mg/L	50	0.00100
Ethylbenzene		**0.0955**		mg/L	50	0.00100
Xylene		**0.0973**		mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.93	mg/L	50	5.00	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		4.83	mg/L	50	5.00	97	52 - 124.1

Sample: 183545 - MW-11

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	55589	Date Analyzed:	2008-12-29	Analyzed By:	ME
Prep Batch:	47506	Sample Preparation:	2008-12-29	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.106**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		**0.00210**		mg/L	1	0.00100
Xylene		**0.00160**		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	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.110	mg/L	1	0.100	110	52 - 124.1

Sample: 183546 - MW-4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	55589	Date Analyzed:	2008-12-29	Analyzed By:	ME
Prep Batch:	47506	Sample Preparation:	2008-12-29	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.00610**	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)		0.0997	mg/L	1	0.100	100	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	52 - 124.1

Sample: 183547 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	55638	Date Analyzed:	2008-12-30	Analyzed By:	ME
Prep Batch:	47550	Sample Preparation:	2008-12-30	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**7.97**	mg/L	50	0.00100
Toluene		**0.437**	mg/L	50	0.00100
Ethylbenzene		**0.412**	mg/L	50	0.00100
Xylene		**0.294**	mg/L	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.94	mg/L	50	5.00	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		4.80	mg/L	50	5.00	96	52 - 124.1

Method Blank (1) QC Batch: 55589

QC Batch:	55589	Date Analyzed:	2008-12-29	Analyzed By:	ME
Prep Batch:	47506	QC Preparation:	2008-12-29	Prepared By:	AG

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)		0.0965	mg/L	1	0.100	96	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	37.1 - 130.9

Method Blank (1) QC Batch: 55638

QC Batch: 55638 Date Analyzed: 2008-12-30 Analyzed By: ME
Prep Batch: 47550 QC Preparation: 2008-12-30 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)		0.0934	mg/L	1	0.100	93	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0945	mg/L	1	0.100	94	37.1 - 130.9

Laboratory Control Spike (LCS-1)

QC Batch: 55589 Date Analyzed: 2008-12-29 Analyzed By: ME
Prep Batch: 47506 QC Preparation: 2008-12-29 Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.109	mg/L	1	0.100	<0.000800	109	71.7 - 120.5
Toluene	0.106	mg/L	1	0.100	<0.000800	106	75.4 - 118.8
Ethylbenzene	0.105	mg/L	1	0.100	<0.000500	105	73.5 - 118
Xylene	0.315	mg/L	1	0.300	<0.000900	105	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	<0.000800	100	71.7 - 120.5	9	20
Toluene	0.0980	mg/L	1	0.100	<0.000800	98	75.4 - 118.8	8	20
Ethylbenzene	0.0995	mg/L	1	0.100	<0.000500	100	73.5 - 118	5	20
Xylene	0.300	mg/L	1	0.300	<0.000900	100	72.9 - 118.2	5	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)	0.109	0.101	mg/L	1	0.100	109	101	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.115	0.107	mg/L	1	0.100	115	107	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 55638 | Date Analyzed: 2008-12-30 | Analyzed By: ME
Prep Batch: 47550 | QC Preparation: 2008-12-30 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0886	mg/L	1	0.100	<0.000800	89	71.7 - 120.5
Toluene	0.0867	mg/L	1	0.100	<0.000800	87	75.4 - 118.8
Ethylbenzene	0.0840	mg/L	1	0.100	<0.000500	84	73.5 - 118
Xylene	0.252	mg/L	1	0.300	<0.000900	84	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	0.0914	mg/L	1	0.100	<0.000800	91	71.7 - 120.5	3	20
Toluene	0.0893	mg/L	1	0.100	<0.000800	89	75.4 - 118.8	3	20
Ethylbenzene	0.0889	mg/L	1	0.100	<0.000500	89	73.5 - 118	6	20
Xylene	0.268	mg/L	1	0.300	<0.000900	89	72.9 - 118.2	6	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0941	0.0984	mg/L	1	0.100	94	98	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0957	0.0987	mg/L	1	0.100	96	99	43.9 - 132.4

Matrix Spike (MS-1) Spiked Sample: 183657

QC Batch: 55589 | Date Analyzed: 2008-12-29 | Analyzed By: ME
Prep Batch: 47506 | QC Preparation: 2008-12-29 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.109	mg/L	1	0.100	0.0046	104	10 - 160.8
Toluene	0.102	mg/L	1	0.100	<0.000800	102	10 - 160.7
Ethylbenzene	0.101	mg/L	1	0.100	<0.000500	101	10 - 158.3
Xylene	0.304	mg/L	1	0.300	<0.000900	101	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	0.108	mg/L	1	0.100	0.0046	103	10 - 160.8	1	20
Toluene	0.101	mg/L	1	0.100	<0.000800	101	10 - 160.7	1	20
Ethylbenzene	0.0995	mg/L	1	0.100	<0.000500	100	10 - 158.3	2	20
Xylene	0.301	mg/L	1	0.300	<0.000900	100	10 - 158	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0998	0.0996	mg/L	1	0.1	100	100	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	0.107	0.106	mg/L	1	0.1	107	106	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 183547

QC Batch: 55638 | Date Analyzed: 2008-12-30 | Analyzed By: ME
Prep Batch: 47550 | QC Preparation: 2008-12-30 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	14.2	mg/L	50	5.00	7.9675	125	10 - 160.8
Toluene	5.02	mg/L	50	5.00	0.4368	92	10 - 160.7
Ethylbenzene	4.87	mg/L	50	5.00	0.412	89	10 - 158.3
Xylene	13.5	mg/L	50	15.0	0.2936	88	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	13.8	mg/L	50	5.00	7.9675	117	10 - 160.8	3	20
Toluene	5.07	mg/L	50	5.00	0.4368	93	10 - 160.7	1	20
Ethylbenzene	4.95	mg/L	50	5.00	0.412	91	10 - 158.3	2	20
Xylene	13.8	mg/L	50	15.0	0.2936	90	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)	4.91	4.92	mg/L	50	5	98	98	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	4.95	4.91	mg/L	50	5	99	98	37.5 - 136

Standard (ICV-1)

QC Batch: 55589 | Date Analyzed: 2008-12-29 | 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	0.113	113	85 - 115	2008-12-29
Toluene		mg/L	0.100	0.111	111	85 - 115	2008-12-29
Ethylbenzene		mg/L	0.100	0.108	108	85 - 115	2008-12-29
Xylene		mg/L	0.300	0.325	108	85 - 115	2008-12-29

Standard (CCV-1)

QC Batch: 55589 Date Analyzed: 2008-12-29 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	0.0992	99	85 - 115	2008-12-29
Toluene		mg/L	0.100	0.0977	98	85 - 115	2008-12-29
Ethylbenzene		mg/L	0.100	0.0984	98	85 - 115	2008-12-29
Xylene		mg/L	0.300	0.295	98	85 - 115	2008-12-29

Standard (ICV-1)

QC Batch: 55638 Date Analyzed: 2008-12-30 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	0.0964	96	85 - 115	2008-12-30
Toluene		mg/L	0.100	0.0946	95	85 - 115	2008-12-30
Ethylbenzene		mg/L	0.100	0.0915	92	85 - 115	2008-12-30
Xylene		mg/L	0.300	0.275	92	85 - 115	2008-12-30

Standard (CCV-1)

QC Batch: 55638 Date Analyzed: 2008-12-30 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	0.0947	95	85 - 115	2008-12-30
Toluene		mg/L	0.100	0.0922	92	85 - 115	2008-12-30
Ethylbenzene		mg/L	0.100	0.0903	90	85 - 115	2008-12-30
Xylene		mg/L	0.300	0.275	92	85 - 115	2008-12-30

LAB Order # 8122403 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9, Lubbock, Texas 79424, Tel (806) 794-1296, Fax (806) 794-1298, 1 (800) 378-1296
5002 Basin Street, Suite A1, Midland, Texas 79703, Tel (432) 689-6301, Fax (432) 689-6313
200 East Sunset Rd., Suite E, El Paso, Texas 79922, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443
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: (Street, City, Zip) 2901 Rankin Hwy.
Fax #:
Contact Person: Sharma Smith
E-mail: SSmith@talonlpe.com
Invoice to: (If different from above) PLAINS Jason Henry
SRS# 2002-10312
Project #: PLAINS046SPL
Project Name: Prep 6
Project Location (including state): New Mexico, Lovington
Sampler Signature: Carl Vessels / Camilo Chavez

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(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	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content						Turn Around Time if different from standard	Hold
185527	MW-6	3	VOA	X				X				X		12/23/08	1311		X																					
538	MW-1	3		X				X				X			1322		X																					
539	MW-7	3		X				X				X			1316		X																					
540	MW-8	3		X				X				X			1313		X																					
541	MW-5	3		X				X				X			1324		X																					
542	MW-9	3		X				X				X			1330		X																					
543	MW-12	3		X				X				X			1337		X																					
544	MW-10	3		X				X				X			1339		X																					
545	MW-11	3		X				X				X			1334		X																					
546	MW-4	3		X				X				X			1328		X																					
547	MW-3	3		X				X				X			1319		X																					

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
	Talon/LPE	12/24/08	0847		Trace	12-24-08	08:47	3.5°C

LAB USE ONLY: Intact (Y) N; Headspace Y (N) NA; 3.5 °C; Log-In Review

REMARKS: All tests Midland

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

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

Carrier # Carry-in

ORIGINAL COPY

APPENDIX D

NMOCD C-141

PLAINS ALL AMERICAN

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised March 17, 1999

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

Release Notification and Corrective Action ☐ Initial Report ☒ Final Report

RP-1274

Name of Company: Plains All American Pipeline, L.P. (formerly Link Energy and EOTT)	**Contact:** Camille Reynolds
Address: 3112 W. US Hwy 82, Lovington, NM 88260	**Telephone No.:** 505.441.0965
Facility Name: Lovington Deep 6"	**Facility Type:** Crude Oil Pipeline

Surface Owner: Darr Angell	**Mineral Owner:**	**Lease No.:**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	
H	6	17S	36E					**County:** Lea **Lat.:** 32°52'1.132"N **Lon:** 103°23'16.570"W

NATURE OF RELEASE

Type of Release: Crude Oil	**Volume of Release:** 25 bbls	**Volume Recovered:** 10 bbls
Source of Release: 6" steel pipeline	**Date and Hour of Occurrence:** 12-12-02 8:00 AM	**Date and Hour of Discovery:** 12-12-02 10:00 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?** Paul Sheeley and Sylvia Dickie, Hobbs NMOCD (left messages) Confirmed with Sylvia Dickie at 11:45 AM 12-12-02	
By Whom? Pat McCasland (Environmental Plus, Inc.)	**Date and Hour:** NMOCD notified on 12-12-02 10:30 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.* The cause of the leak was internal/external corrosion. The contaminated soil was stockpiled on a plastic barrier. Disposing at South Monument SWF

Describe Area Affected and Cleanup Action Taken.* The crude oil release was excavated: impacted soil was placed adjacent to the excavation, confirmation soil samples were collected form the floor & walls of the excavation. Once confirmation samples were below NMOCD regulatory standards, a 20 mil synthetic liner was installed on the floor of the excavation area, 10,500 cubic yards of stockpiled soil previously processed through a shredder was placed in the excavation area once the impacted soil was deemed acceptable under the NMMOCD-approved VOC readings of <100.0 ppm, the site was restored to natural grade.

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: Camille Reynolds	**Approved by District Supervisor:**	
Title: Remediation Coordinator	**Approval Date:**	**Expiration Date:**
Date: July 30, 2007 **Phone:** 505.441.0965	**Conditions of Approval:**	**Attached** ☐

* Attach Additional Sheets If Necessary

PLAINS ALL AMERICAN

EOTT Energy Pipeline Site Information and Metrics	**Incident Date and NMOCD Notified?:** Discovered 12-12-02 NMOCD verbally notified on 12-12-02
SITE: Lovington Deep 6"	**Assigned Site Reference #:** 2002-10312
Company: EOTT Energy Pipeline	
Street Address: 5805 East Highway 80	
Mailing Address: P.O. Box 1660	
City, State, Zip: Midland, Texas 79703	
Representative: Frank Hernandez, District Environmental Supervisor	
Representative Telephone: 915.638.3799	
Telephone:	
Fluid volume released (bbls): 25 bbls	**Recovered (bbls):** 10
>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: Lovington Deep 6"	
Source of contamination: 6" Steel Crude Oil Pipeline	
Land Owner, i.e., BLM, ST, Fee, Other: Darr Angell	
LSP Dimensions: 140' X 75'	
LSP Area: Spill Area ~6,000 ft^2	
Location of Reference Point (RP):	
Location distance and direction from RP:	
Latitude: 32° 52' 1.132"N	
Longitude: 103° 23' 16.570"W	
Elevation above mean sea level: ~3,918 'amsl	
Feet from South Section Line:	
Feet from West Section Line:	
Location- Unit or ¼¼: UL-H SE ¼ of the NE ¼	
Location- Section: 6	
Location- Township: 17S	
Location- Range: 36E	
Surface water body within 1000 ' radius of site: None	
Domestic water wells within 1000' radius of site: None	
Agricultural water wells within 1000' radius of site: None	
Public water supply wells within 1000' radius of site: None	
Depth from land surface to ground water (DG): ~50.0 feet	
Depth of contamination (DC): ?	
Depth to ground water (DG – DC = DtGW): <50 feet	

1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 feet: *20 points*	If <1000' from water source, or;<200' from private domestic water source: *20 points*	<200 horizontal feet: *20 points*
If Depth to GW 50 to 99 feet: *10 points*		200-100 horizontal feet: *10 points*
If Depth to GW >100 feet: *0 points*	If >1000' from water source, or; >200' from private domestic water source: *0 points*	>1000 horizontal feet: *0 points*
Ground water Score = 20	***Wellhead Protection Area Score= 0***	***Surface Water Score= 0***

Site Rank (1+2+3) = 20

Total Site Ranking Score and Acceptable Concentrations

Parameter	**>19 (Surface to 50.0'bgs)**	10-19	0-9
Benzene[1]	**10 ppm**	10 ppm	10 ppm
BTEX[1]	**50 ppm**	50 ppm	50 ppm
TPH	**100 ppm**	1000 ppm	5000 ppm

[1]100 ppm field VOC headspace measurement may be substituted for lab analysis