

AP - 92

ANNUAL MONITORING REPORT

YEAR(S):

2012



March 15, 2013

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

Re: Plains All American – 2012 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:

| | | |
|--------------------------------|------------------------|---|
| <u>8-inch Moore to Jal #1</u> | <u>AP-91 (1R-0380)</u> | <u>Section 16, T17S, R37E, Lea County</u> |
| <u>8-inch Moore to Jal #2</u> | <u>AP-92 (1R-0381)</u> | <u>Section 16, T17S, R37E, Lea County</u> |
| <u>C.S. Cayler</u> | <u>AP-052</u> | <u>Section 06, T17S, R37E, Lea County</u> |
| <u>Hobbs Junction Mainline</u> | <u>AP-054</u> | <u>Section 26, T18S, R37E, Lea County</u> |
| <u>Kimbrough Sweet 8-inch</u> | <u>AP-0029</u> | <u>Section 03, T18S, R37E, Lea County</u> |
| <u>Lovington Deep 6-inch</u> | <u>AP-037</u> | <u>Section 06, T17S, R36E, Lea County</u> |

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

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

Sincerely,

Jason Henry
Remediation Coordinator
Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM

Enclosures

2530 State Hwy. 214 • Denver City, TX 79323 • (575)441-1099

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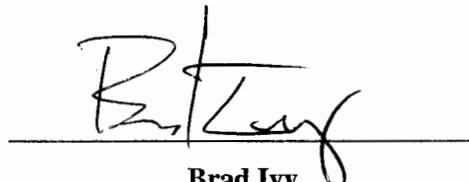
2012 ANNUAL GROUNDWATER MONITORING REPORT

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

**PLAINS PIPELINE, L.P.
333 CLAY STREET, SUITE 1600
HOUSTON, TEXAS**

TALON/LPE PROJECT NO. 700376.045.01

Prepared by:


Brad Ivy

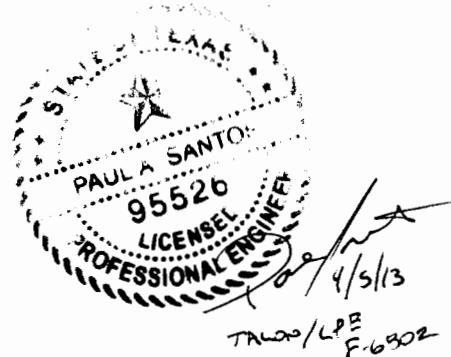
Project Manager

Reviewed by:


Chris Spore
Regional Manager

**TALON/LPE
2901 S. State Highway 349
Midland, Texas 79706**

February 2012



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

TABLE OF CONTENTS

| | | |
|------------|--|----------|
| 1.0 | INTRODUCTION AND OBJECTIVES | 1 |
| 1.1 | Objectives and Site Background | 1 |
| 1.2 | Site Geology..... | 1 |
| 1.3 | Previous Environmental Investigations | 1 |
| 1.4 | Regulatory Framework | 2 |
| 2.0 | SITE ACTIVITIES | 3 |
| 2.1 | Groundwater Monitoring Activities | 3 |
| 2.2 | Groundwater Gauging, Purgung, and Sampling Procedures..... | 3 |
| 2.3 | Phase Separated Hydrocarbon Recovery | 4 |
| 3.0 | GROUNDWATER MONITORING RESULTS | 4 |
| 3.1 | Physical Characteristics of the First Water-Bearing Zone | 5 |
| 3.2 | Groundwater Gradient and Flow Direction..... | 5 |
| 3.3 | Phase Separated Hydrocarbon (PSH) | 6 |
| 3.4 | Groundwater Analytical Results | 6 |
| 4.0 | PRODUCT RECOVRY | |
| 5.0 | CONCLUSIONS AND RECOMMENDATIONS | 9 |
| 5.1 | Summary of Findings | 9 |
| 5.2 | Recommendations | 9 |

APPENDICES

Appendix A Drawings

Figure 1 - Site Plan

Figure 2a - Groundwater Gradient Map - 03/21/2012

Figure 2b - Groundwater Gradient Map - 06/12/2012

Figure 2c - Groundwater Gradient Map – 09/26/2012

Figure 2d - Groundwater Gradient Map - 12/14/2012

Figure 3a - PSH Thickness & Groundwater Concentration Map - 03/21/2012

Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/20/2012

Figure 3c - PSH Thickness & Groundwater Concentration Map – 09/26/2012

Figure 3d - PSH Thickness & Groundwater Concentration Map - 12/14/2012

Figure 4 - Proposed Monitor Well Locations

Appendix B Tables

Table 1 - Summary of Historical Fluid Level Measurements

Table 2 - Summary of Groundwater Analytical Results - BTEX

Table 3 - Summary of Groundwater Analytical Results - PAH

Appendix C Laboratory Analytical Data Reports and Chains of Custody Documentation

Appendix D NMOCD C-141

INTRODUCTION AND OBJECTIVES

1.1 Objectives and Site Background

The 8" Moore to Jal #2 (site) is located approximately 9.2 miles southeast of Lovington, Lea County, New Mexico, on property owned by the State of New Mexico. The site is located within the West Lovington Oil Field at 32° 49' 56.61" N, 103° 15' 08.47" W. There are no residences, groundwater wells, or surface water bodies within a 1,000-foot radius of the site. The initial release occurred from an EOTT Energy Pipeline (EOTT) steel pipeline on October 22, 2002. Subsequently, EOTT changed its name to Link Energy in October 2003, and Plains Marketing, L.P. (Plains) purchased the assets of Link Energy on April 1, 2004. Initial reports estimated that 25 barrels (bbls) of crude oil were released. Approximately 5,794 square feet of surface area was impacted by the release.

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

1.2 Site Geology

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

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

1.3 Previous Environmental Investigations

Currently, there are a total of twenty-one (21) groundwater monitor wells that have been installed in the vicinity of the release (see Figure 1). With New Mexico Oil Conservation Division (NMOCD) approval and landowner concurrence, groundwater monitor well MW-1 was installed in July 2004. Subsequently, groundwater monitor wells MW-2, MW-3, and MW-4 were installed in October 2004, monitor wells MW-6 through MW-13 were installed in November 2007, MW-14 through MW-16 were installed in March of 2010 and MW-17 through MW-21 were installed in August of 2010.

Phase-separated hydrocarbon (PSH) recovery operations have been performed at the site since 2004. Currently, there are four (4) skimmer pumps and two (2) total fluid pumps in operation at the site used to recover phase-separated hydrocarbon (PSH). Table 1, which summarizes historical groundwater and PSH gauging, is provided in Appendix B. In addition, cumulative historical tables are on the attached CD that is an adjunct to this report.

A water transfer system was installed during the year 2011 that is designed to pump recovered groundwater from the site to the Rocky Smith SWD Systems, State 'E' #23 salt water disposal (SWD) (NMOCD # 307219) facility, thereby, eliminating the need to haul water to a disposal facility with a vacuum truck. The system is composed of a 3-inch HDPE line that was installed (slip-lined) into the out of service Moore to Jal 8-inch pipeline from the site through the Moore to Jal #1 site to the C.S. Cayler site, where it is connected to the HDPE line that runs from the Cayler site to the afore referenced SWD. A five (5) HP transfer pump is used to impel the water down the HDPE line.

1.4 Regulatory Framework

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

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

2.0 SITE ACTIVITIES

The sections that follow summarize groundwater monitoring and PSH recovery activities conducted at the subject site during the year 2012. The primary function of groundwater monitoring activities is to collect depth to fluid measurements and to collect groundwater samples from monitor wells for laboratory analysis. The objective of groundwater monitoring is to evaluate the status of the dissolved-phase and PSH plumes in order to verify the effectiveness of the remediation system as to inhibiting plume migration, reducing the volume of PSH impacting the groundwater and determining if modifications to the remediation system would improve its overall performance and efficiency.

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

2.1 Groundwater Monitoring Activities

A total of four (4) groundwater monitoring events were conducted by Talon during the year 2012. The events occurred on: March 21, June 12, September 26, and December 14. Details of the gauging, purging, and sampling activities are presented below in Section 2.2.

2.2 Groundwater Gauging, Purging, and Sampling Procedures

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

Subsequent to gauging, all monitor wells were purged using a down-hole pump equipped with vinyl tubing. The pump and tubing were decontaminated with Alconox® detergent and rinsed with distilled water after each use. Recovered purge water and water used in the decontamination process was contained in 55-gallon drums. After the groundwater monitoring event, all retained water was placed in the recovery tank and properly disposed. Approximately 2,083 gallons of purged groundwater and water used for decontamination was generated during the monitoring events of 2012.

Groundwater samples were collected from all monitor wells not impacted with PSH using dedicated disposable polyethylene bailers. Groundwater samples were not collected from wells impacted with PSH. All groundwater samples were contained in laboratory supplied sample vials infused with the appropriate preservative required for the requested analysis. The groundwater samples were maintained on ice, in the custody of Talon personnel, until

they were delivered to TraceAnalysis, Inc. in Midland, Texas for testing. The groundwater samples collected during all four events were quantified for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method SW-846 8021B. In addition, selected groundwater samples were collected for quantification of poly-nuclear aromatic hydrocarbons by EPA Method SW-846 8270C.

2.3 Phase Separated Hydrocarbon Recovery

Prior to October 2008, a mobile recovery trailer with total fluids pumps was mobilized to the site on a weekly basis to recover PSH from monitor wells MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-9.

On October 7, 2008, a permanent system was installed utilizing two (2) AP-4 pneumatic total fluid pumps in monitor wells MW-1 and MW-7 and four (4) skimmers in monitor wells MW-3, MW-5, MW-6, and MW-9 to recover PSH and to inhibit migration of the PSH plume. The skimmer assembly consists of bladder pumps combined with 24-inch traveling float specific gravity skimmer attachments. The skimmer system and total fluids pumps are powered by a single-phase 230 volt, 7.5 HP two stage reciprocating air compressor. Fluid, recovered by the pumps, is retained in a 6,500-gallon poly tank. The poly tank is equipped with a high level shut off switch to prevent overflow and it is located within a secondary containment compound that is outfitted with a poly-liner. Recovered PSH is periodically removed from the recovery tank with a vacuum truck. Recovered groundwater is transported to an approved NMOCD disposal facility through the water transfer system and removed PSH is re-introduced to the Plains' pipeline system at the Plains operated Lea Station.

Talon personnel performed a minimum of weekly maintenance to the remediation system to ensure efficient operation, to optimize PSH recovery and to minimize down time. The poly tank is gauged weekly to monitor PSH recovery volume. The system has been effective at recovering PSH from the groundwater.

During 2012 the quarterly PSH and groundwater recovery totals are as follows:

- 1st Quarter - 4.0 bbls crude oil and 202 bbls of groundwater
- 2nd Quarter – 6.0 bbls crude oil and 5336 bbls of groundwater
- 3rd Quarter – 6.0 bbls crude oil and 2800 bbls of groundwater
- 4th Quarter – 4.0 bbls of crude oil and 700 bbls of groundwater

During 2012, a total of 20 bbls of crude oil and a total of 9,038 bbls of groundwater were recovered by the PSH recovery system. Approximately 187 bbls of crude oil has been recovered at the subject site since PSH recovery activities were initiated.

2.4 Groundwater Monitoring Results

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

2.4.1 Physical Characteristics of the First Water-Bearing Zone

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

The Ogallala Aquifer is generally unconfined and the potentiometric surface generally mirrors the land surface elevation with the regional flow direction is from the northwest to the southeast. The mean regional gradient is 15 feet per mile and the typical groundwater velocity averages seven inches per day. The regional hydraulic conductivity averages 17 gallons per day per square-foot and specific yield averages 16%.

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

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

2.4.2 Groundwater Gradient and Flow Direction

The depth to fluid measurements was collected during each of the four (4) groundwater monitoring events during the year 2012. The results of the fluid level measurements are summarized in Table 1 - Summary of Historical Fluid Level Measurements in Appendix B.

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

The potentiometric surface maps constructed for each of the four (4) groundwater monitoring events indicate consistently that the groundwater flow direction is to southeast at an approximate gradient of 0.0040 feet/foot or approximately 21 feet per mile. Groundwater levels at the subject site have exhibited a steady decline of an average of 1.29 feet for the year. The declines in groundwater levels appear to be associated with a regional trend of declining groundwater levels for the Ogallala Aquifer.

2.4.3 Phase Separated Hydrocarbon (PSH)

An oil/water interface probe was used to determine the thicknesses of PSH during the four (4) groundwater monitoring events. The following summarizes the status of the PSH thicknesses observed during the four groundwater monitoring events:

- In March 2012, PSH was observed in seven (7) monitor wells MW-1, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-9. PSH thickness ranged from 0.22 feet to 5.41 feet.
- In June 2012, PSH was observed in seven (7) monitor wells MW-1, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-9. PSH thickness ranged from 0.18 feet to 5.87 feet.
- In September 2012, PSH was observed in seven (7) monitor wells MW-1, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-9. PSH thickness ranged from 0.09 feet to 5.98 feet.
- In December 2012, PSH was observed in seven (7) monitor wells MW-1, MW-3 through MW-7, and MW-9. PSH thickness ranged from 0.29 feet to 3.04 feet.

Note : MW-3 is basically dry but has a trace of PSH in the mud at bottom of well in all four events.

In addition to potentiometric surface maps, isopleth maps were prepared depicting the measured PSH thicknesses and PSH plume geometry. PSH plume delineation and thickness maps are presented in Appendix A as Figures 3a through 3d. Currently, the PSH plume is delineated. PSH recovery operations have been performed at the site since 2004. Currently there are a total of two (2) total fluid pumps and four (4) skimmer pumps in operation at the site. A summary of the historical groundwater and PSH gauging results is provided in Table 1 in Appendix B.

2.4.4 Groundwater Analytical Results

During the first quarter, March 2012 sampling event, groundwater samples were collected from monitor wells MW-2, MW-8, and MW-10 through MW-21. Monitor wells MW-1, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-9 were not sampled due to the presence of PSH.

The following analytical results were observed from laboratory analyses:

- Benzene concentrations ranged from <0.00100 mg/L to 33.2 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-8, MW-13, MW-15, MW-16, and MW-19.
- Toluene concentrations ranged from <0.00100 mg/L to 0.0112 mg/L. The toluene concentration exceeded the NMWQCC groundwater standard of 0.750 mg/L in none of the groundwater samples collected from monitor wells.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.409 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in the groundwater samples collected from monitor wells.

- Xylene concentrations ranged from <0.00100 mg/L to 0.54 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in the groundwater samples collected from monitor wells.

During the June 2012 sampling event, groundwater samples were collected from monitor wells MW-2, MW-8, and MW-10 through MW-21. Monitor wells MW-1, MW-3 through MW-7, and MW-9 were not sampled due to the presence of PSH.

Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from <0.00100 mg/L to 33.6 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-8, MW-13, MW-15, MW-16, MW-18, MW-19 and MW-20.
- Toluene concentrations ranged from <0.00100 mg/L to <0.200 mg/L. The toluene concentration exceeded the NMWQCC groundwater standard of 0.750 mg/L in none of the groundwater samples collected from monitor wells.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.380 mg/L. The ethylbenzene concentration exceeded the NMWQCC groundwater standard of 0.750 mg/L in none of the groundwater samples collected from monitor wells.
- Xylene concentrations ranged from <0.00100 mg/L to 0.286 mg/L. The xylene concentration did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the collected groundwater samples.

During the September 2012 sampling event, groundwater samples were collected from monitor wells MW-8, and MW-10 through MW-21. Monitor wells MW-1 through MW-7, and MW-9 were not sampled due to the presence of PSH.

Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from <0.00100 mg/L to 17.1 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-8, MW-13, MW-15, MW-16, MW-18, and MW-19.
- Toluene concentrations ranged from <0.00100 mg/L to 0.05 mg/L. The toluene concentration did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the groundwater samples collected.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.141 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the collected groundwater samples.
- Xylene concentrations ranged from <0.00100 mg/L to 0.187 mg/L. The xylene concentration did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the groundwater samples collected.

During the December 2012 sampling event, groundwater samples were collected from monitor wells MW-8 and MW-10 through MW-21. Monitor wells MW-1 through MW-7 and MW-9 were not sampled due to the presence of PSH. In addition, a sample was collected from monitor wells MW-17, MW-18, and MW-19 for quantification of PAHs.

Laboratory analytical results of the groundwater samples collected exhibited the following findings:

- Benzene concentrations ranged from <0.00100 mg/L to 10.7 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-8, MW-13, MW-15, MW-16, and MW-18.
- Toluene concentrations ranged from <0.00100 mg/L to <0.0500 mg/L. The toluene concentration did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the groundwater samples collected.
- Ethylbenzene concentrations ranged from <0.00100 mg/L to 0.122 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any collected groundwater sample.
- Xylene concentrations ranged from <0.00100 mg/L to 0.279 mg/L. The xylene concentration did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the groundwater samples collected.
- Total naphthalenes concentrations ranged from <0.000183 mg/L to 0.00253 mg/L. The total naphthalenes concentration did not exceed the NMWQCC groundwater standard of 0.030 mg/L in any of the groundwater samples collected.

Generally, dissolved-phase concentrations have declined during the year 2012 with the most significant declines in down-gradient monitor wells MW-8, and MW-13. However, increases have been observed in further down-gradient well MW-15. Dissolved-phase concentrations have fluctuated in cross-gradient monitor wells MW-18 and MW-19. Currently, the dissolved-phase groundwater plume is not delineated.

CONCLUSIONS AND RECOMMENDATIONS

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

2.5 Summary of Findings

- The groundwater flow direction is to the southeast at an average gradient of 0.0040 feet per foot or 21.25 feet per mile.
- Groundwater levels at the subject site have exhibited a steady decline that appears to be associated with a regional trend of declining groundwater levels for the Ogallala Aquifer.
- PSH has been observed in monitor wells MW-1 through MW-7 and MW-9.
- Generally, PSH thicknesses have fluctuated from quarter to quarter during the year 2012, but have declined throughout the year.
- In general, monitor wells have exhibited stable or declining concentrations of dissolved-phase contaminants except for down-gradient monitor well MW-15, which exhibited increasing dissolved-phase concentrations over the year 2012. Currently, the dissolved-phase plume is not delineated.
- Approximately 20 bbls of crude oil was recovered during the year 2012 indicating that the PSH recovery system is performing its function.

2.6 Recommendations

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

- Continue operation and maintenance of the skimmer/bladder pump and total fluids pumps recovery system. Monitor the system on a weekly basis to optimize PSH recovery efficiency.
- Add or reposition pumps as necessary to optimize PSH recovery and inhibit plume migration.
- Perform quarterly groundwater monitoring events in accordance with NMOCD directives.
- Add 2 new monitor wells to delineate the dissolve-phase plume. (See Figure 4)

APPENDIX A

Figures

Figure 1 - Site Plan with Proposed Monitor Well Locations Map

Figure 2a - Groundwater Gradient Map - 03/21/2012

Figure 2b - Groundwater Gradient Map - 06/12/2012

Figure 2c - Groundwater Gradient Map – 09/26/2012

Figure 2d - Groundwater Gradient Map - 12/14/2012

Figure 3a - PSH Thickness & Groundwater Concentration Map - 03/21/2012

Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/20/2012

Figure 3c - PSH Thickness & Groundwater Concentration Map – 09/27/2012

Figure 3d - PSH Thickness & Groundwater Concentration Map - 12/14/2012

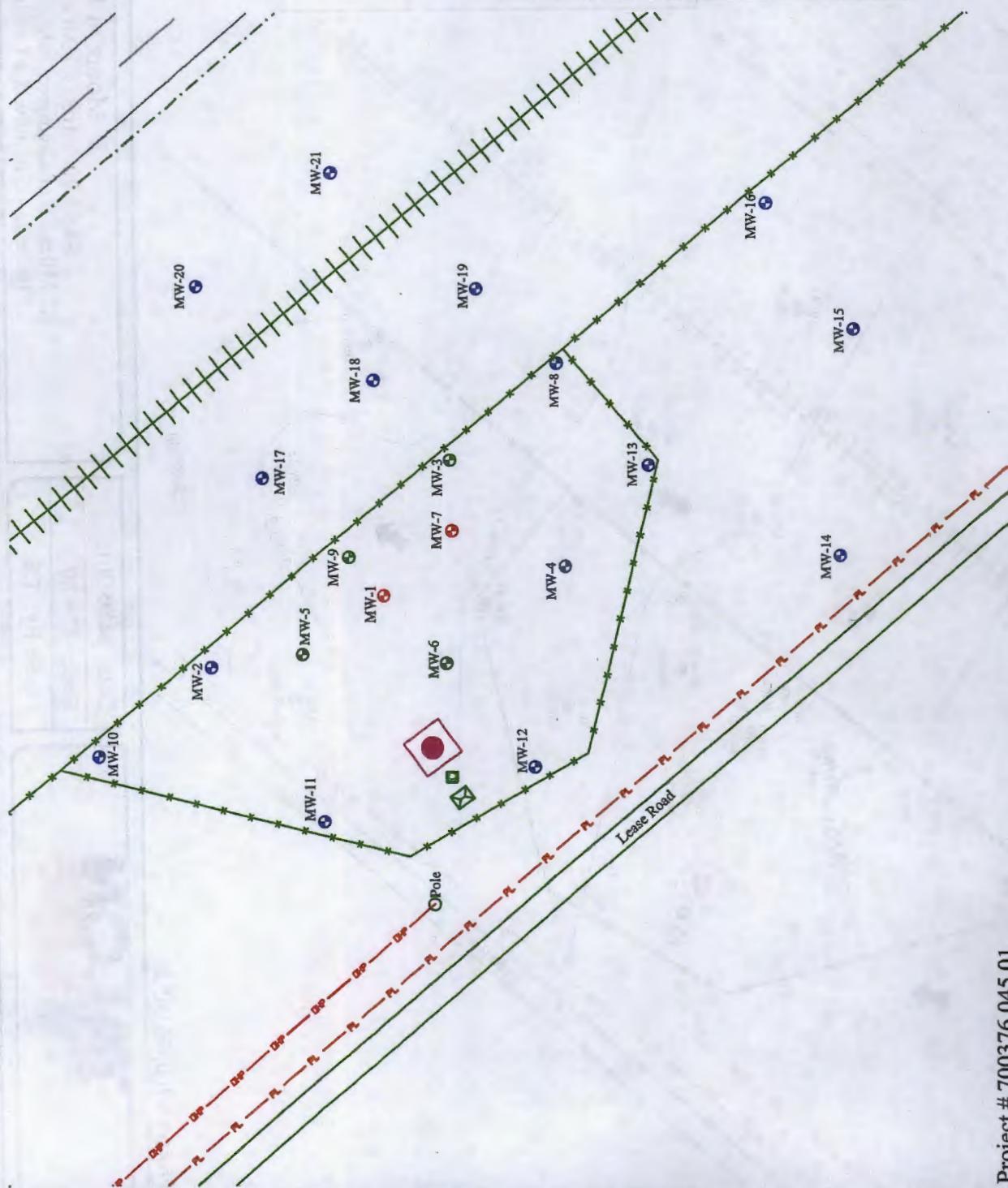
Figure 4 – Proposed Monitor Well Locations



Scale in Feet
0 40 80

Legend

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



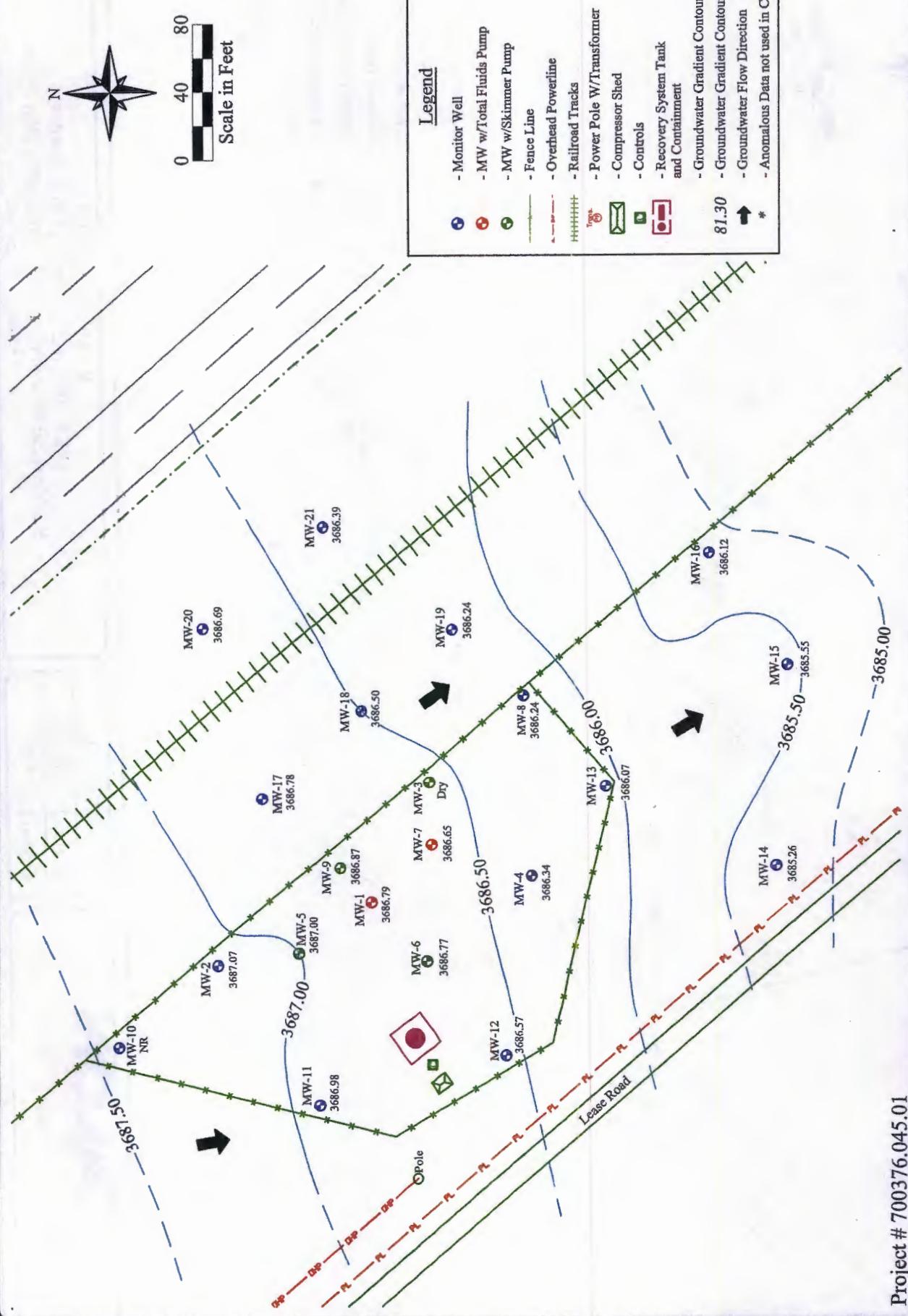
Project # 700376.045.01

TALON LPE

| |
|------------------|
| Date: 07/07/2011 |
| Scale: 1" = 80' |
| Drawn By: TJS |

8" Moore to Jal # 2
SRS # 2002-10273, NMOCD REF # AP-92

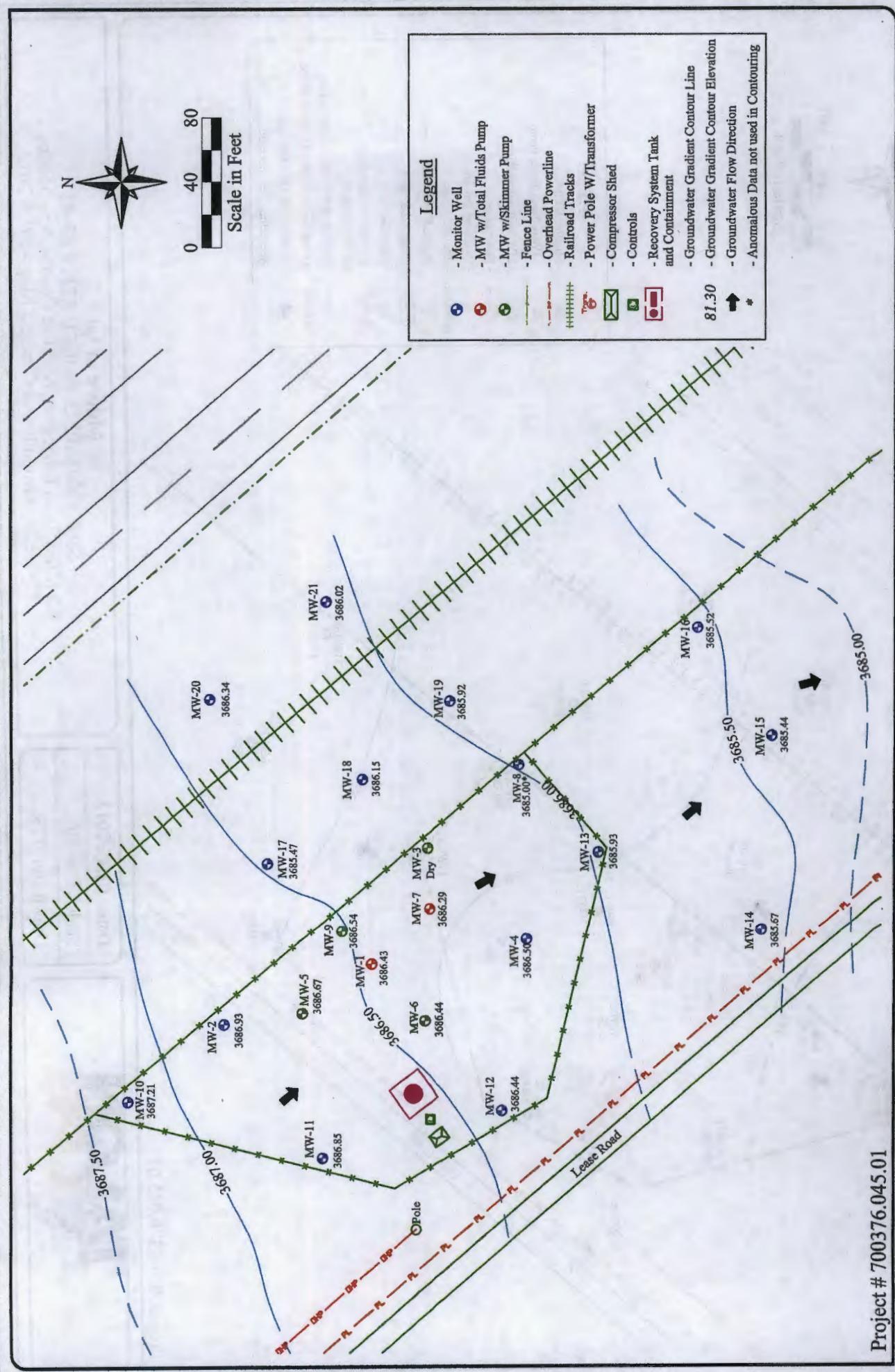
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
Figure 1 - Site Plan



| |
|------------------|
| Date: 04/05/2012 |
| Scale: 1" = 80' |
| Drawn By: TJS |

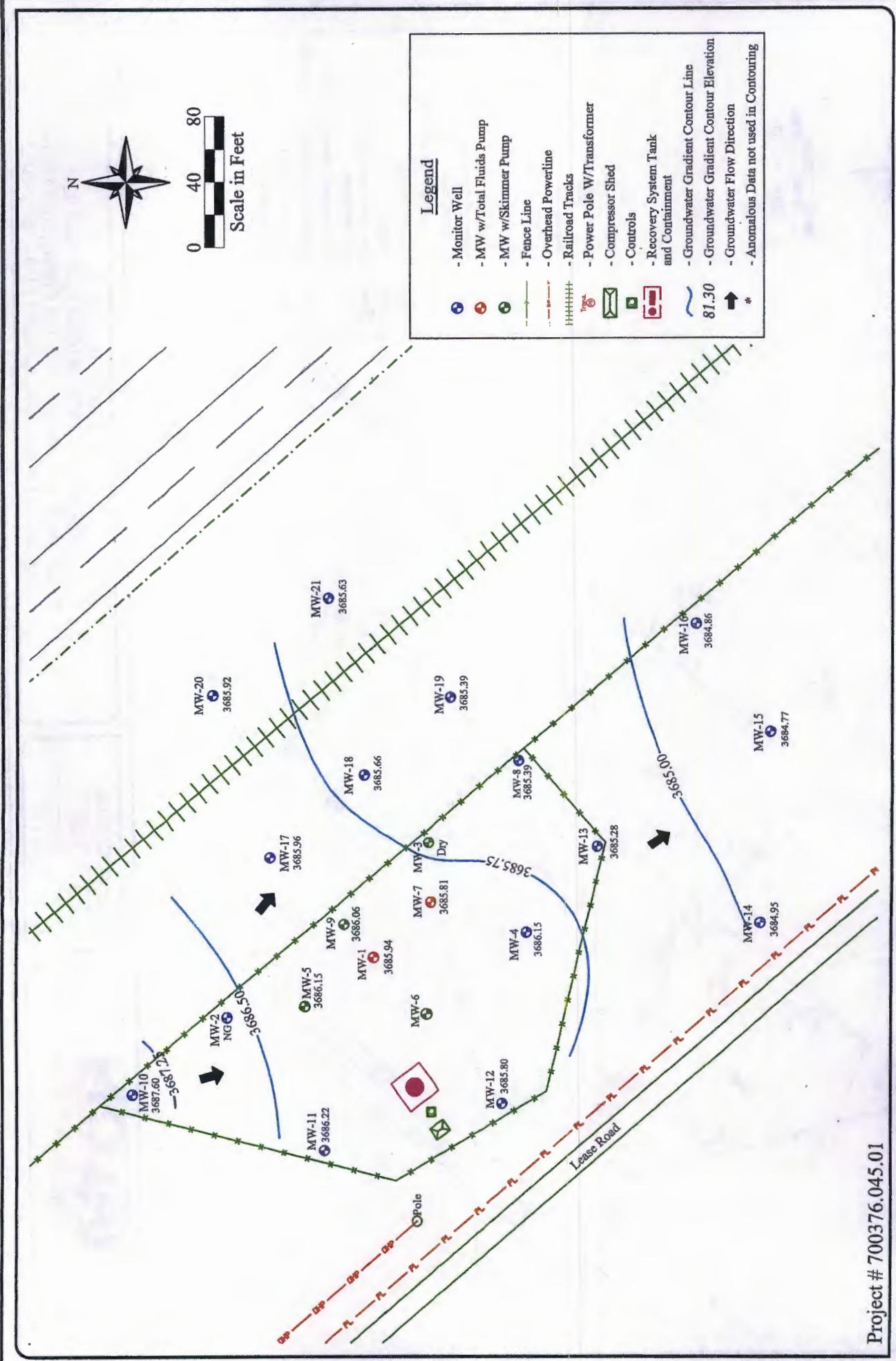
TALON
TALON

8" Moore to Jal # 2
SRS # 2002-10273, NMOCRD REF. # AP-92
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
Figure 2a - Groundwater Gradient Map - 03/21/2012



8" Moore to Jal # 2
 SRS # 2002-10273, NMOCD REF. # AP-92
 9.2 Miles SE of Lovington, NM, Lea County, New Mexico
 Figure 2b - Groundwater Gradient Map - 06/12/2012





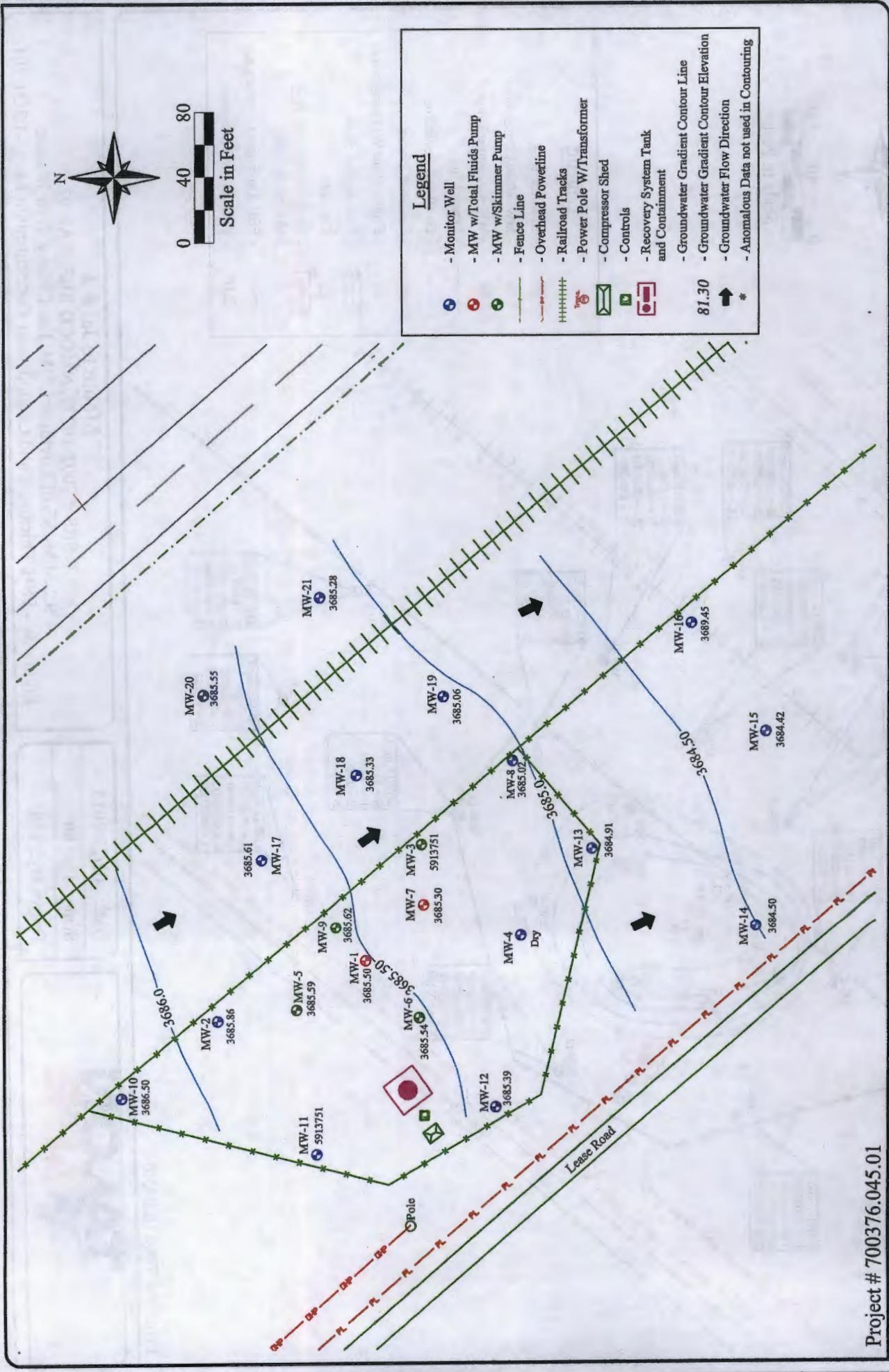
Project # 700376.045.01



Date: 01/22/2013
Scale: 1" = 80'
Drawn By: TJS

8" Moore to Jal # 2
SRS # 2002-10273, NMOCRD REF
9.2 Miles SE of Lovington, NM, Lea Cou
Figure 2c - Groundwater Gradient Ma

SRS # 2002-10273, NMOCRD REF. # AP-92
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
Figure 2c - Groundwater Gradient Map - 09/26/2012



Project # 700376.045.01

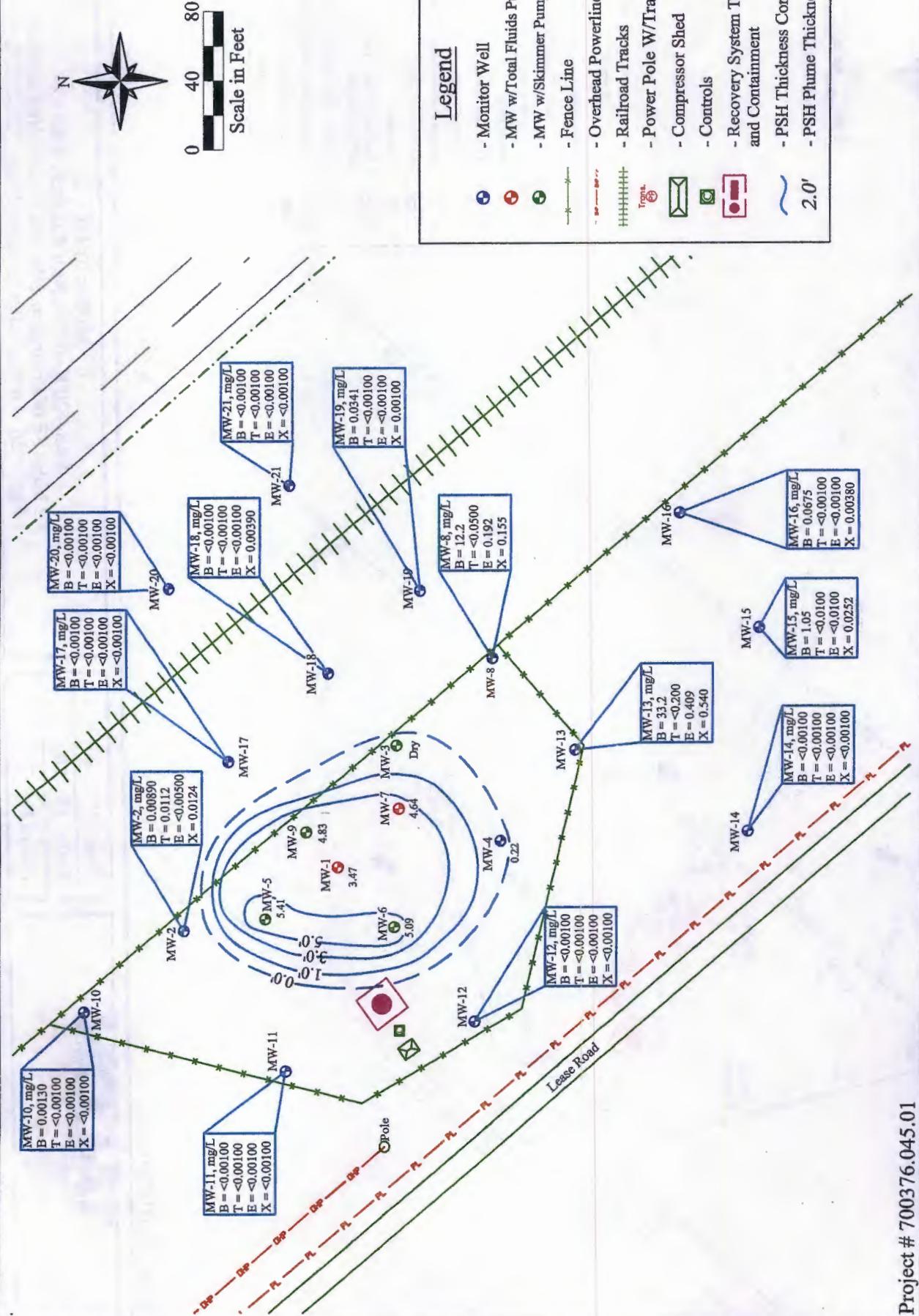


| |
|------------------|
| Date: 01/21/2013 |
| Scale: 1" = 80' |
| Drawn By: TJS |

8" Moore to Jai # 2

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

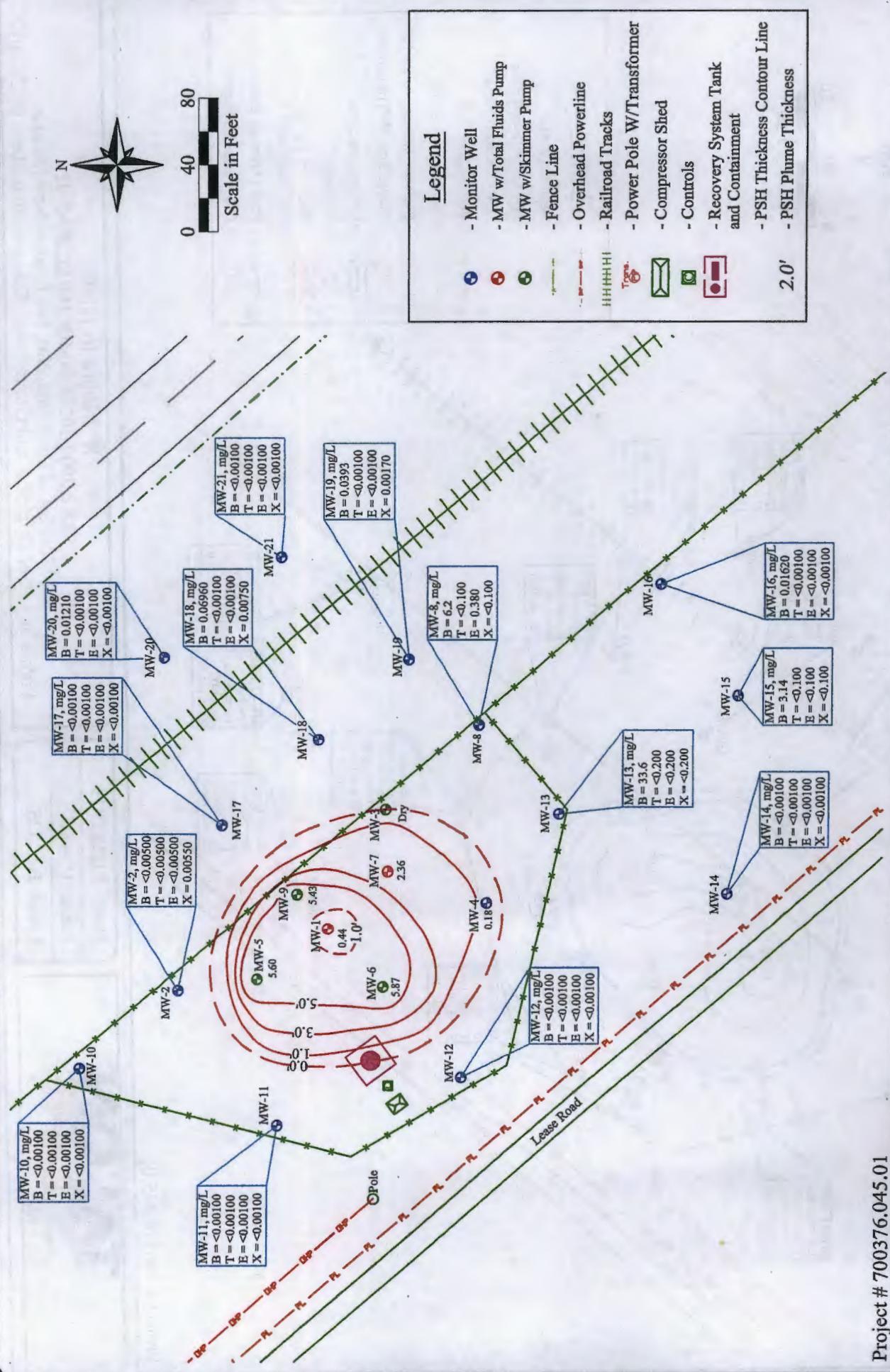
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
 Figure 2d - Groundwater Gradient Map - 12/14/2012



8" Moore to Jal # 2
SRS # 2002-10273, NMOCID REF. # AP-92
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
Figure 3a - PSH Thickness and Groundwater Concentration Map, - 03/21/2012

| |
|------------------|
| Date: 01/22/2013 |
| Scale: 1" = 80' |
| Drawn By: TJS |



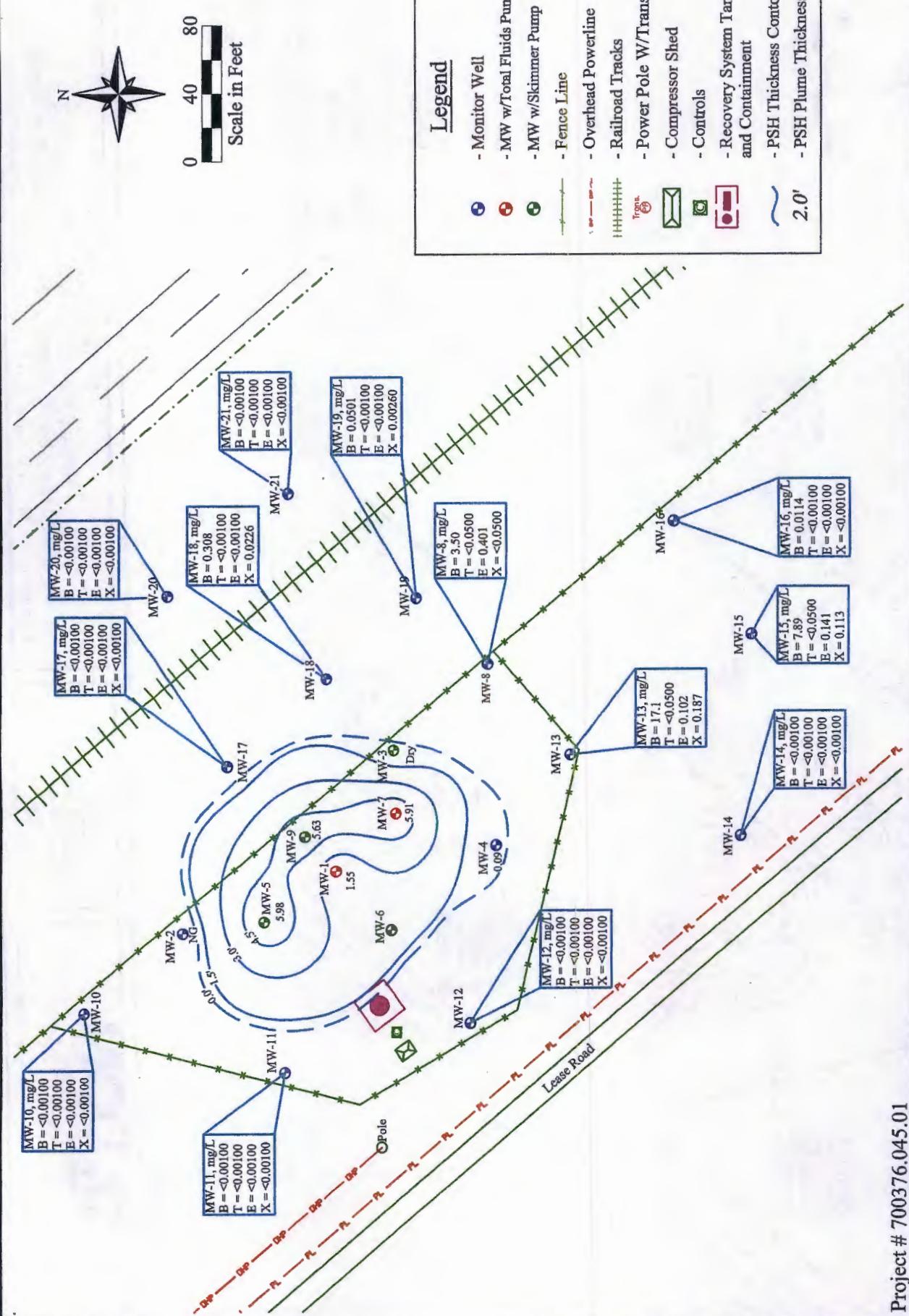


Project # 700376.045.01

Date: 07/25/2012
Scale: 1" = 80'
Drawn By: TJS

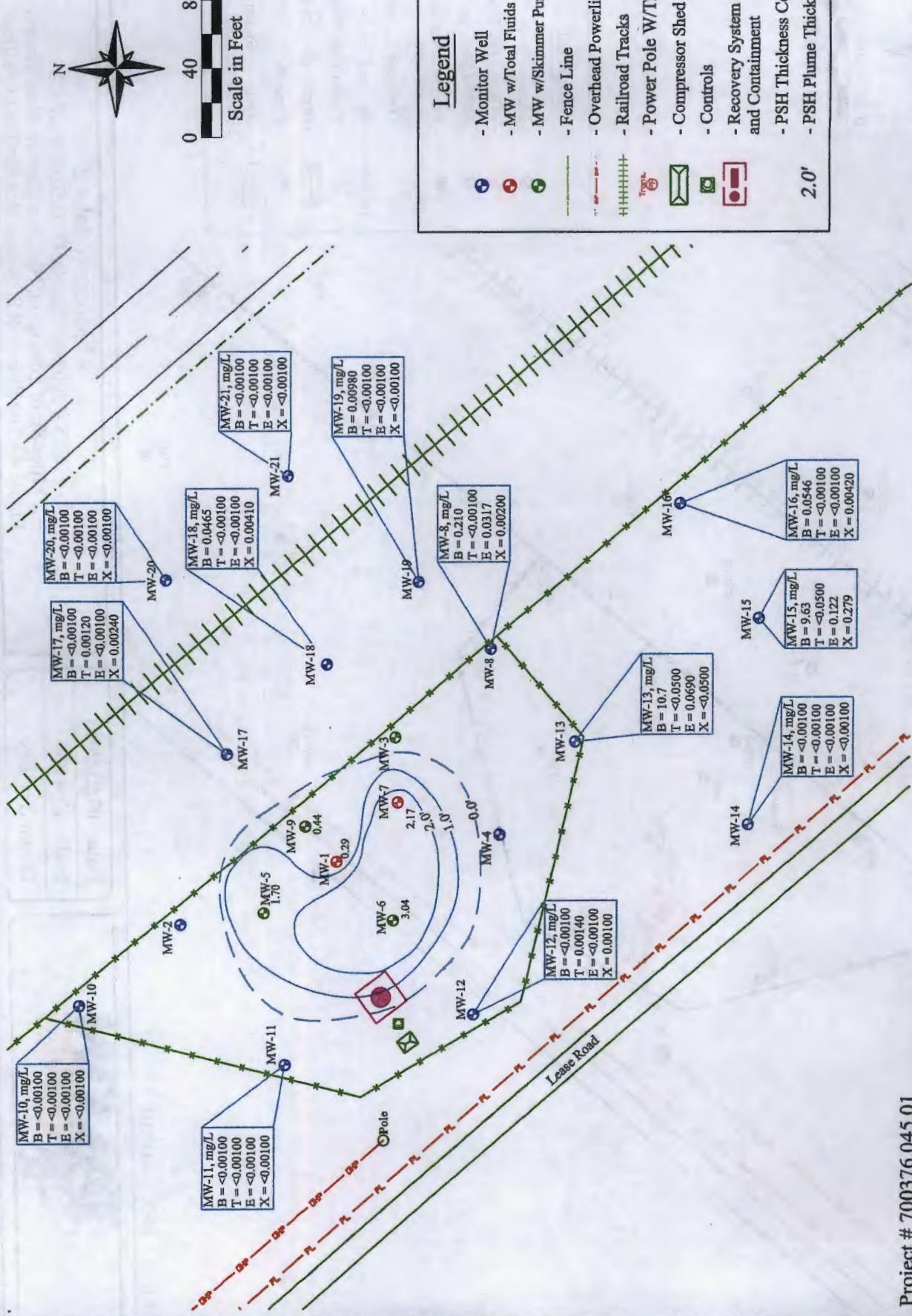
8" Moore to Jal # 2
SRS # 2002-10273, NMOCRD REF
9.2 Miles SE of Lovington, NM, Lea Cou
Figure 3b - PSH Thickness and Groundwater Con

SRS # 2002-10273, NMOCD REF. # AP-92
2 Miles SE of Lovington, NM, Lea County, New Mexico
ESP/H Thickness and Groundwater Concentration Map - 06/20/2012



TAYLOR LPE

Date: 01/22/2013
Scale: 1" = 80'
Drawn By: TJS



8" Moore to Jal # 2
SRS # 2002-10273, NMOCRD REF. # AP-92
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
Figure 3d - PSH Thickness and Groundwater Concentration Map - 12/14/2012





Scale in Feet
0 40 80

Legend

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



Project # 700376.045.01

Date: 03/21/2013
Scale: 1" = 80'
Drawn By: TJS



8" Moore to Jal # 2
SRS # 2002-10273, NMOCID REF. # AP-92
9.2 Miles SE of Lovington, NM, Lea County, New Mexico
Figure 4 - Site Plan with Proposed Monitor Well Locations

APPENDIX B

Tables

Table 1 - Summary of Groundwater Elevations and Phase Separated Hydrocarbon (PSH) Thicknesses

Table 2 - Summary of Groundwater Analytical Results - BTEX

Table 3 - Summary of Groundwater Analytical Results – PAH



Table 3 - Elevations and PSH Thickness
Moore to Jal #2
SRS #2002-10273

| Well | Date | Top of Casing Elevation (ft) | Depth to Groundwater (ft) | Depth to PSH (ft) | PSH Thickness (ft) | Corrected Groundwater Elevation (ft) |
|-------------|----------|------------------------------------|---------------------------------|--|--------------------------|--|
| MW-1 | | | Diameter: <u>4</u> in. | Screened Interval: <u>63.00</u> ft. to <u>83.0</u> ft. | TD: <u>83.0</u> ft. | |
| | 03/30/06 | 3767.30 | 79.93 | 73.41 | 6.52 | 3692.81 |
| | 07/07/06 | 3767.30 | 80.02 | 73.64 | 6.38 | 3692.61 |
| | 09/29/06 | 3767.30 | NG | - | - | NG |
| | 10/06/06 | 3767.30 | 85.64 | 79.04 | 6.60 | 3687.17 |
| | 12/27/06 | 3767.30 | 85.92 | 79.35 | 6.57 | 3686.87 |
| | 03/27/07 | 3767.30 | 85.98 | 79.48 | 6.50 | 3686.75 |
| | 06/19/07 | 3767.30 | 86.18 | 79.65 | 6.53 | 3686.57 |
| | 09/20/07 | 3767.30 | 86.31 | 79.76 | 6.55 | 3686.46 |
| | 09/28/07 | 3767.30 | 86.36 | 79.79 | 6.57 | 3686.43 |
| | 10/11/07 | 3767.30 | 86.39 | 79.82 | 6.57 | 3686.40 |
| | 12/17/07 | 3773.35 | 86.70 | 80.04 | 6.66 | 3692.21 |
| | 09/02/09 | 3773.35 | 87.53 | 81.97 | 5.56 | 3690.46 |
| | 11/11/09 | 3773.35 | 87.22 | 82.54 | 4.68 | 3690.04 |
| | 12/14/11 | 3773.35 | 90.08 | 85.50 | 4.58 | 3687.09 |
| | 03/21/12 | 3773.35 | 89.47 | 86.00 | 3.47 | 3686.78 |
| | 06/12/12 | 3773.35 | 87.29 | 86.85 | 0.44 | 3686.43 |
| | 09/26/12 | 3773.35 | 88.70 | 87.15 | 1.55 | 3685.94 |
| | 12/14/12 | 3773.35 | 88.09 | 87.80 | 0.29 | 3685.50 |
| MW-2 | | | Diameter: <u>2</u> in. | Screened Interval: <u>62.50</u> ft. to <u>82.5</u> ft. | TD: <u>82.5</u> ft. | |
| | 03/30/06 | 3771.04 | 77.86 | - | - | 3693.18 |
| | 07/07/06 | 3771.04 | 78.22 | - | - | 3692.82 |
| | 09/29/06 | 3771.04 | 78.68 | 78.52 | 0.16 | 3692.49 |
| | 10/06/06 | 3771.04 | 79.74 | 78.54 | 1.20 | 3692.30 |
| | 12/27/06 | 3771.04 | 78.96 | 78.84 | 0.12 | 3692.18 |
| | 03/27/07 | 3771.04 | 79.15 | 78.97 | 0.18 | 3692.04 |
| | 06/19/07 | 3771.04 | 79.45 | 79.18 | 0.27 | 3691.82 |
| | 09/20/07 | 3771.04 | 79.61 | 79.32 | 0.29 | 3691.67 |
| | 09/28/07 | 3771.04 | 79.57 | 79.24 | 0.33 | 3691.75 |
| | 10/11/07 | 3771.04 | 79.60 | 79.34 | 0.26 | 3691.66 |
| | 12/17/07 | 3772.07 | 79.85 | 79.56 | 0.29 | 3692.46 |
| | 09/02/09 | 3772.07 | 81.37 | - | - | 3690.70 |
| | 11/11/09 | 3772.07 | 81.59 | - | - | 3690.48 |
| | 12/14/11 | 3772.07 | 84.57 | - | - | 3687.50 |
| | 03/21/12 | 3772.07 | 85.00 | - | - | 3687.07 |
| | 06/12/12 | 3772.07 | 85.14 | - | - | 3686.93 |
| | 09/26/12 | 3772.07 | NG | - | - | NG |
| | 12/14/12 | 3772.07 | 86.21 | - | - | 3685.86 |
| MW-3 | | | Diameter: <u>2</u> in. | Screened Interval: <u>63.00</u> ft. to <u>83.0</u> ft. | TD: <u> </u> ft. | |
| | 03/30/06 | 3771.94 | 80.22 | 79.20 | 1.02 | 3692.57 |
| | 07/07/06 | 3771.94 | 82.57 | 78.97 | 3.60 | 3692.38 |
| | 09/29/06 | 3771.94 | 83.81 | 79.10 | 4.71 | 3692.06 |
| | 10/06/06 | 3771.94 | 82.28 | 79.47 | 2.81 | 3692.01 |
| | 12/27/06 | 3771.94 | 81.82 | 79.94 | 1.88 | 3691.69 |
| | 03/27/07 | 3771.94 | 82.42 | 80.01 | 2.41 | 3691.53 |
| | 06/19/07 | 3771.94 | 84.12 | 79.80 | 4.32 | 3691.43 |
| | 09/20/07 | 3771.94 | 82.33 | 80.37 | 1.96 | 3691.25 |
| | 09/28/07 | 3771.94 | 81.27 | 80.92 | 0.35 | 3690.96 |
| | 10/11/07 | 3771.94 | 82.10 | 80.51 | 1.59 | 3691.17 |
| | 12/17/07 | 3772.86 | 83.40 | 80.56 | 2.84 | 3691.83 |
| | 09/02/09 | 3772.86 | 82.81 | 82.75 | 0.06 | 3690.10 |
| | 11/11/09 | 3772.86 | 83.15 | 83.13 | 0.02 | 3689.73 |
| | 12/14/11 | 3772.86 | Dry | - | - | Dry |
| | 03/21/12 | 3772.86 | Dry | - | - | Dry |
| | 06/12/12 | 3772.86 | Dry | - | - | Dry |
| | 09/26/12 | 3772.86 | Dry | - | - | Dry |
| | 12/14/12 | 3772.86 | Dry | - | - | Dry |



Table 3 - Elevations and PSH Thickness
Moore to Jal #2
SRS #2002-10273

| Well | Date | Top of Casing Elevation (ft) | Depth to Groundwater (ft) | Depth to PSH (ft) | PSH Thickness (ft) | Corrected Groundwater Elevation (ft) |
|-------------|----------|------------------------------------|---------------------------------|---|--------------------------|--|
| MW-4 | | Diameter: 2 in. | | Screened Interval: 67.00 ft. to 87.0 ft. | | TD: 87.0 ft. |
| | 03/30/06 | 3772.86 | 80.29 | - | - | 3692.57 |
| | 07/07/06 | 3772.86 | 80.62 | - | - | 3692.24 |
| | 09/29/06 | 3772.86 | 79.98 | - | - | 3692.88 |
| | 10/06/06 | 3772.86 | 81.03 | - | - | 3691.83 |
| | 12/27/06 | 3772.86 | 81.33 | - | - | 3691.53 |
| | 03/27/07 | 3772.86 | 81.43 | - | - | 3691.43 |
| | 06/19/07 | 3772.86 | 81.51 | - | - | 3691.35 |
| | 09/20/07 | 3772.86 | 81.72 | - | - | 3691.14 |
| | 10/11/07 | 3772.86 | 81.77 | - | - | 3691.09 |
| | 12/17/07 | 3773.76 | 82.04 | - | - | 3691.72 |
| | 09/02/09 | 3773.76 | 83.83 | - | - | 3689.93 |
| | 11/11/09 | 3773.76 | 84.08 | - | - | 3689.68 |
| | 12/14/11 | 3773.76 | 87.32 | 87.31 | 0.01 | 3686.45 |
| | 03/21/12 | 3773.76 | 87.60 | 87.38 | 0.22 | 3686.34 |
| | 06/12/12 | 3773.76 | 87.41 | 87.23 | 0.18 | 3686.50 |
| | 09/26/12 | 3773.76 | 87.69 | 87.60 | 0.09 | 3686.15 |
| | 12/14/12 | 3773.76 | Dry | - | - | Dry |
| MW-5 | | Diameter: 4 in. | | Screened Interval: 60.00 ft. to 100.0 ft. | | TD: 100.0 ft. |
| | 12/17/07 | 3772.08 | 80.91 | 79.55 | 1.36 | 3692.31 |
| | 09/02/09 | 3772.08 | 85.00 | 80.75 | 4.25 | 3690.63 |
| | 11/11/09 | 3772.08 | 86.30 | 81.01 | 5.29 | 3690.20 |
| | 12/14/11 | 3772.08 | 87.79 | 84.22 | 3.57 | 3687.27 |
| | 03/21/12 | 3772.08 | 89.62 | 84.21 | 5.41 | 3686.98 |
| | 06/12/12 | 3772.08 | 90.11 | 84.51 | 5.60 | 3686.65 |
| | 09/26/12 | 3772.08 | 90.92 | 84.94 | 5.98 | 3686.15 |
| | 12/14/12 | 3772.08 | 87.91 | 86.21 | 1.70 | 3685.59 |
| MW-6 | | Diameter: 4 in. | | Screened Interval: 60.00 ft. to 100.0 ft. | | TD: 100.0 ft. |
| | 12/17/07 | 3772.99 | 83.14 | 80.42 | 2.72 | 3692.12 |
| | 09/02/09 | 3772.99 | 85.14 | 82.11 | 3.03 | 3690.38 |
| | 11/11/09 | 3772.99 | 84.22 | 82.78 | 1.44 | 3689.97 |
| | 12/14/11 | 3772.99 | 88.18 | 85.53 | 2.65 | 3687.02 |
| | 03/21/12 | 3772.99 | 90.50 | 85.41 | 5.09 | 3686.74 |
| | 06/12/12 | 3772.99 | 91.48 | 85.61 | 5.87 | 3686.41 |
| | 09/29/12 | 3772.99 | 92.13 | 86.05 | 6.08 | 3685.94 |
| | 12/14/12 | 3772.99 | 89.99 | 86.95 | 3.04 | 3685.54 |
| MW-7 | | Diameter: 4 in. | | Screened Interval: 60.00 ft. to 100.0 ft. | | TD: 100.0 ft. |
| | 12/17/07 | 3772.92 | 82.94 | 80.51 | 2.43 | 3692.01 |
| | 09/02/09 | 3772.92 | 87.79 | 81.68 | 6.11 | 3690.23 |
| | 11/11/09 | 3772.92 | 85.16 | 82.36 | 2.80 | 3690.10 |
| | 12/14/11 | 3772.92 | 85.35 | 85.33 | 0.02 | 3687.59 |
| | 03/21/12 | 3772.92 | 90.17 | 85.53 | 4.64 | 3686.62 |
| | 06/12/12 | 3772.92 | 88.61 | 86.25 | 2.36 | 3686.28 |
| | 09/26/12 | 3772.92 | 92.04 | 86.13 | 5.91 | 3685.81 |
| | 12/14/12 | 3772.92 | 89.43 | 87.26 | 2.17 | 3685.30 |
| MW-8 | | Diameter: 4 in. | | Screened Interval: 64.00 ft. to 104.0 ft. | | TD: 104.7 ft. |
| | 12/17/07 | 3773.80 | 82.21 | - | - | 3691.59 |
| | 09/02/09 | 3773.80 | 83.95 | - | - | 3689.85 |
| | 11/11/09 | 3773.80 | 84.21 | - | - | 3689.59 |
| | 12/14/11 | 3773.80 | 87.20 | - | - | 3686.60 |
| | 03/21/12 | 3773.80 | 87.56 | - | - | 3686.24 |
| | 06/12/12 | 3773.80 | 88.80 | - | - | 3685.00 |
| | 09/26/12 | 3773.80 | 88.41 | - | - | 3685.39 |
| | 12/14/12 | 3773.80 | 88.78 | - | - | 3685.02 |



Table 3 - Elevations and PSH Thickness
Moore to Jal #2
SRS #2002-10273

| Well | Date | Top of Casing Elevation (ft) | Depth to Groundwater (ft) | Depth to PSH (ft) | PSH Thickness (ft) | Corrected Groundwater Elevation (ft) |
|--------------|----------|------------------------------|---------------------------|---|--------------------|--------------------------------------|
| MW-9 | | | Diameter: 4 in. | Screened Interval: 60.00 ft. to 100.0 ft. | TD: 100.0 ft. | |
| | 12/17/07 | 3771.79 | 80.82 | 79.35 | 1.47 | 3692.20 |
| | 09/02/09 | 3771.79 | 82.29 | 81.18 | 1.11 | 3690.43 |
| | 11/11/09 | 3771.79 | 81.98 | 81.72 | 0.26 | 3690.03 |
| | 12/14/11 | 3771.79 | 86.47 | 84.20 | 2.27 | 3687.22 |
| | 03/21/12 | 3771.79 | 88.98 | 84.15 | 4.83 | 3686.84 |
| | 06/12/12 | 3771.79 | 89.81 | 84.38 | 5.43 | 3686.51 |
| | 09/26/12 | 3771.79 | 90.43 | 84.80 | 5.63 | 3686.06 |
| | 12/14/12 | 3771.79 | 86.54 | 86.10 | 0.44 | 3685.62 |
| MW-10 | | | Diameter: 4 in. | Screened Interval: 61.00 ft. to 101.0 ft. | TD: 101.2 ft. | |
| | 12/17/07 | 3771.90 | 79.18 | - | - | 3692.72 |
| | 09/02/09 | 3771.90 | 80.11 | - | - | 3691.79 |
| | 11/11/09 | 3771.90 | 81.12 | - | - | 3690.78 |
| | 12/14/11 | 3771.90 | 84.14 | - | - | 3687.76 |
| | 03/21/12 | 3771.90 | NG | - | - | NG |
| | 06/12/12 | 3771.90 | 84.69 | - | - | 3687.21 |
| | 09/26/12 | 3771.90 | 84.30 | - | - | 3687.60 |
| | 12/14/12 | 3771.90 | 85.40 | - | - | 3686.50 |
| MW-11 | | | Diameter: 4 in. | Screened Interval: 65.00 ft. to 105.0 ft. | TD: 105.2 ft. | |
| | 12/17/07 | 3772.97 | 80.52 | - | - | 3692.45 |
| | 09/02/09 | 3772.97 | 82.31 | - | - | 3690.66 |
| | 11/11/09 | 3772.97 | 82.54 | - | - | 3690.43 |
| | 12/14/11 | 3772.97 | 85.59 | - | - | 3687.38 |
| | 03/21/12 | 3772.97 | 85.99 | - | - | 3686.98 |
| | 06/12/12 | 3772.97 | 86.12 | - | - | 3686.85 |
| | 09/26/12 | 3772.97 | 86.75 | - | - | 3686.22 |
| MW-12 | | | Diameter: 4 in. | Screened Interval: 65.00 ft. to 105.0 ft. | TD: 105.7 ft. | |
| | 12/17/07 | 3773.80 | 81.77 | - | - | 3692.03 |
| | 09/02/09 | 3773.80 | 83.51 | - | - | 3690.29 |
| | 11/11/09 | 3773.80 | 83.76 | - | - | 3690.04 |
| | 12/14/11 | 3773.80 | 86.82 | - | - | 3686.98 |
| | 03/21/12 | 3773.80 | 87.23 | - | - | 3686.57 |
| | 06/12/12 | 3773.80 | 87.36 | - | - | 3686.44 |
| | 09/26/12 | 3773.80 | 88.00 | - | - | 3685.80 |
| | 12/14/12 | 3773.80 | 88.41 | - | - | 3685.39 |
| MW-13 | | | Diameter: 4 in. | Screened Interval: 65.00 ft. to 105.0 ft. | TD: 105.2 ft. | |
| | 12/17/07 | 3774.36 | 82.84 | - | - | 3691.52 |
| | 09/02/09 | 3774.36 | 84.60 | - | - | 3689.76 |
| | 11/11/09 | 3774.36 | 84.83 | - | - | 3689.53 |
| | 12/14/11 | 3774.36 | 87.87 | - | - | 3686.49 |
| | 03/21/12 | 3774.36 | 88.29 | - | - | 3686.07 |
| | 06/12/12 | 3774.36 | 88.43 | - | - | 3685.93 |
| | 09/26/12 | 3774.36 | 89.08 | - | - | 3685.28 |
| | 12/14/12 | 3774.36 | 89.45 | - | - | 3684.91 |
| MW-14 | | | Diameter: 4 in. | Screened Interval: 66.00 ft. to 106.0 ft. | TD: 106.0 ft. | |
| | 12/14/11 | 3774.40 | 88.25 | - | - | 3686.15 |
| | 03/21/12 | 3774.40 | 89.14 | - | - | 3685.26 |
| | 06/12/12 | 3774.40 | 88.73 | - | - | 3685.67 |
| | 09/26/12 | 3774.40 | 89.45 | - | - | 3684.95 |
| | 12/14/12 | 3774.40 | 89.90 | - | - | 3684.50 |
| MW-15 | | | Diameter: 4 in. | Screened Interval: 67.00 ft. to 107.0 ft. | TD: 107.0 ft. | |
| | 12/14/11 | 3774.03 | 88.08 | - | - | 3685.95 |
| | 03/21/12 | 3774.03 | 88.48 | - | - | 3685.55 |
| | 06/12/12 | 3774.03 | 88.59 | - | - | 3685.44 |
| | 09/26/12 | 3774.03 | 89.26 | - | - | 3684.77 |
| | 12/14/12 | 3774.03 | 89.61 | - | - | 3684.42 |



Table 3 - Elevations and PSH Thickness
Moore to Jal #2
SRS #2002-10273

| Well | Date | Top of Casing Elevation (ft) | Depth to Groundwater (ft) | Depth to PSH (ft) | PSH Thickness (ft) | Corrected Groundwater Elevation (ft) |
|--------------|----------|------------------------------------|---------------------------------|---|--------------------------|--|
| MW-16 | | | Diameter: 4 in. | Screened Interval: 67.00 ft. to 107.0 ft. | | TD: 107.0 ft. |
| | 12/14/11 | 3773.95 | 87.91 | - | - | 3686.04 |
| | 03/21/12 | 3773.95 | 88.83 | - | - | 3685.12 |
| | 06/12/12 | 3773.95 | 88.43 | - | - | 3685.52 |
| | 09/26/12 | 3773.95 | 89.09 | - | - | 3684.86 |
| | 12/14/12 | 3773.95 | 84.50 | - | - | 3689.45 |
| MW-17 | | | Diameter: 4 in. | Screened Interval: _____ ft. to _____ ft. | TD: _____ ft. | |
| | 12/14/11 | 3771.29 | 84.12 | - | - | 3687.17 |
| | 03/21/12 | 3771.29 | 84.51 | - | - | 3686.78 |
| | 06/12/12 | 3771.29 | 85.82 | - | - | 3685.47 |
| | 09/26/12 | 3771.29 | 85.33 | - | - | 3685.96 |
| | 12/14/12 | 3771.29 | 85.68 | - | - | 3685.61 |
| MW-18 | | | Diameter: 4 in. | Screened Interval: _____ ft. to _____ ft. | TD: _____ ft. | |
| | 12/14/11 | 3772.41 | 85.51 | - | - | 3686.90 |
| | 03/21/12 | 3772.41 | 85.91 | - | - | 3686.50 |
| | 06/12/12 | 3772.41 | 86.26 | - | - | 3686.15 |
| | 09/26/12 | 3772.41 | 86.75 | - | - | 3685.66 |
| | 12/14/12 | 3772.41 | 87.08 | - | - | 3685.33 |
| MW-19 | | | Diameter: 4 in. | Screened Interval: _____ ft. to _____ ft. | TD: _____ ft. | |
| | 12/14/11 | 3773.63 | 87.00 | - | - | 3686.63 |
| | 03/21/12 | 3773.63 | 87.39 | - | - | 3686.24 |
| | 06/12/12 | 3773.63 | 87.71 | - | - | 3685.92 |
| | 09/26/12 | 3773.63 | 88.24 | - | - | 3685.39 |
| | 12/14/12 | 3773.63 | 88.57 | - | - | 3685.06 |
| MW-20 | | | Diameter: 4 in. | Screened Interval: _____ ft. to _____ ft. | TD: _____ ft. | |
| | 12/14/11 | 3770.92 | 83.80 | - | - | 3687.12 |
| | 03/21/12 | 3770.92 | 84.23 | - | - | 3686.69 |
| | 06/12/12 | 3770.92 | 84.58 | - | - | 3686.34 |
| | 09/26/12 | 3770.92 | 85.00 | - | - | 3685.92 |
| | 12/14/12 | 3770.92 | 85.37 | - | - | 3685.55 |
| MW-21 | | | Diameter: 4 in. | Screened Interval: _____ ft. to _____ ft. | TD: _____ ft. | |
| | 12/14/11 | 3773.30 | 86.49 | - | - | 3686.81 |
| | 03/21/12 | 3773.30 | 86.91 | - | - | 3686.39 |
| | 06/12/12 | 3773.30 | 87.28 | - | - | 3686.02 |
| | 09/26/12 | 3773.30 | 87.67 | - | - | 3685.63 |
| | 12/14/12 | 3773.30 | 88.02 | - | - | 3685.28 |

Specific Gravity: 0.835

NG - Not Gauged

NSch - Not scheduled to be gauged

Block - Well blocked/obstructed

Locate - Can not locate/find well

Dry - Well is dry

P&A - Plug and Abandon

WD - Well Destroyed



Table 2 - Groundwater Contaminant Concentrations BTEX
Moore to Jail #2
SRS #2002-10273

| Sample Designation | Date Sampled | Notes | | | |
|--------------------|--------------|----------------------|----------|------------|---------------|
| | | BTEX | | MTBE | |
| Monitor Well # | Date Sampled | Concentration (mg/L) | | Xylene (o) | Total Xylenes |
| | | Xylene (p/m) | | | |
| 13 | 12/18/07 | <0.00100 | <0.00100 | - | <0.00100 |
| Monitor Well # 8 | 12/18/07 | 0.660 | 0.0211 | - | 0.0789 |
| Monitor Well # 11 | 12/19/07 | 0.0180 | 0.00790 | 0.00110 | 0.00120 |
| Monitor Well # 12 | 12/19/07 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| Monitor Well # 10 | 12/19/07 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| MW-1 | 09/20/08 | 16.8 | 3.45 | 1.15 | 2.04 |
| | 09/03/09 | 20.4 | 17.8 | 3.84 | 9.31 |
| | 12/14/11 | - | - | - | - |
| | 03/21/12 | - | - | - | - |
| | 06/12/12 | - | - | - | - |
| | 09/26/12 | - | - | - | - |
| | 12/14/12 | - | - | - | - |
| MW-2 | 09/20/08 | 4.67 | 3.42 | 0.470 | 1.16 |
| | 12/17/08 | 0.0247 | 0.0542 | 0.0331 | 0.0586 |
| | 02/03/09 | 0.0475 | 0.0740 | BRL | 0.0419 |
| | 06/23/09 | 0.0273 | 0.0323 | BRL | 0.0317 |
| | 09/02/09 | 0.00990 | 0.0127 | BRL | 0.00810 |
| | 11/11/09 | 0.0516 | 0.0672 | 0.00470 | 0.0432 |
| | 02/18/10 | 0.0170 | 0.0235 | BRL | 0.0223 |
| | 06/16/10 | 0.0202 | 0.0269 | 0.00140 | 0.0173 |
| | 09/28/10 | 0.0140 | 0.0249 | BRL | 0.0166 |
| | 12/23/10 | 0.0388 | 0.0528 | 0.00540 | 0.0435 |
| | 03/24/11 | 0.0139 | 0.0223 | 0.00740 | 0.0328 |
| | 06/16/11 | 0.0170 | 0.0156 | BRL | 0.0193 |
| | 09/14/11 | 0.00530 | 0.00710 | BRL | 0.00410 |
| | 12/16/11 | BRL | BRL | BRL | BRL |
| | 03/21/12 | 0.00890 | 0.0112 | <0.00146 | 0.0124 |
| | 06/13/12 | <0.00186 | <0.00174 | <0.00163 | 0.00550 |



Table 2 - Groundwater Contaminant Concentrations BTEX
Moore to Jail #2
SRS #2002-10273

| Sample Designation | Date Sampled | Notes | | | |
|--------------------|--------------|---------------|--------------|------------|--------------|
| | | BTEX | | MTBE | |
| | | Total Xylenes | | Xylene (o) | Xylene (p/m) |
| | | Xylene (o) | Xylene (p/m) | | |
| MW-3 | 09/20/08 | 23.4 | 11.7 | 1.74 | - |
| | 03/21/12 | - | - | - | - |
| | 06/12/12 | - | - | - | - |
| | 09/26/12 | - | - | - | - |
| | 12/14/12 | - | - | - | - |
| MW-4 | 09/29/06 | 6.18 | 0.287 | 0.146 | 0.175 |
| | 03/29/07 | 7.18 | 0.530 | 0.452 | 0.297 |
| | 12/28/07 | 20.6 | 0.912 | 0.856 | - |
| | 03/27/08 | 21.8 | 0.956 | 0.724 | - |
| | 06/30/08 | 24.3 | 0.558 | 1.02 | - |
| | 09/19/08 | 26.4 | 2.91 | 1.21 | - |
| | 12/17/08 | 26.8 | 0.368 | 1.20 | - |
| | 02/03/09 | 25.6 | 0.704 | 1.28 | - |
| | 05/23/09 | 23.1 | BRL | 1.70 | BRL |
| | 09/03/09 | 24.6 | 0.521 | 1.24 | - |
| | 11/11/09 | 21.3 | BRL | 0.883 | BRL |
| | 02/18/10 | 15.1 | BRL | 0.639 | BRL |
| | 06/16/10 | 16.9 | BRL | 0.620 | BRL |
| | 09/28/10 | 9.66 | BRL | BRL | BRL |
| | 12/23/10 | 11.0 | BRL | 0.583 | BRL |
| | 03/23/11 | 15.1 | BRL | 1.40 | BRL |
| | 06/16/11 | 13.4 | 1.26 | BRL | BRL |
| | 09/14/11 | 2.36 | BRL | BRL | - |
| | 12/14/11 | - | - | - | - |
| | 03/21/12 | - | - | - | - |
| | 06/12/12 | - | - | - | - |
| | 09/26/12 | - | - | - | - |
| | 12/14/12 | - | - | - | - |



Table 2 - Groundwater Contaminant Concentrations BTEX
Moore to Jail #2
SRS #2002-10273

| Sample Designation | Date Sampled | Concentration (mg/L) | Notes | |
|--------------------|--------------|----------------------|-------|-------|
| | | | MTBE | BTEX |
| MW-5 | 09/20/08 | 5.36 | 4.73 | 0.878 |
| | 09/03/09 | 15.5 | 16.4 | 2.30 |
| | 12/14/11 | - | - | - |
| | 03/21/12 | - | - | - |
| | 06/12/12 | - | - | - |
| | 09/26/12 | - | - | - |
| | 12/14/12 | - | - | - |
| MW-6 | 09/20/08 | 3.22 | 1.94 | 0.285 |
| | 09/03/09 | 19.2 | 19.3 | 3.13 |
| | 12/14/11 | - | - | - |
| | 03/21/12 | - | - | - |
| | 06/12/12 | - | - | - |
| | 09/26/12 | - | - | - |
| | 12/14/12 | - | - | - |
| MW-7 | 09/20/08 | 10.7 | 1.78 | 0.453 |
| | 09/03/09 | 22.1 | 15.8 | 3.11 |
| | 12/14/11 | - | - | - |
| | 03/21/12 | - | - | - |
| | 06/12/12 | - | - | - |
| | 09/26/12 | - | - | - |
| | 12/14/12 | - | - | - |

Table 2 - Groundwater Contaminant Concentrations BTEX
Moore to Jal #2
SRS #20002-10273

| Sample Designation | Date Sampled | Notes | | Concentration (mg/L) |
|--------------------|--------------|-------|-----------|----------------------|
| | | MTBE | BTEX | |
| MW-8 | 03/27/08 | 3.00 | 0.0817 | 0.0283 |
| | 06/30/08 | 8.55 | 1.12 | 0.244 |
| | 09/19/08 | 5.86 | 0.0798 | BRL |
| | 12/17/08 | 27.7 | 2.36 | 0.845 |
| | 02/03/09 | 8.27 | 0.485 | BRL |
| | 06/23/09 | 20.6 | 2.56 | 0.923 |
| | 09/02/09 | 12.0 | 2.23 | 0.360 |
| | 11/11/09 | 18.2 | 4.68 | 0.638 |
| | 02/18/10 | 15.1 | 3.46 | 0.719 |
| | 06/16/10 | 8.30 | 1.43 | 0.340 |
| | 09/28/10 | 10.3 | 2.05 | 0.464 |
| | 12/23/10 | 9.61 | 1.61 | 0.611 |
| | 03/24/11 | 11.5 | 1.41 | 0.774 |
| | 06/16/11 | 16.1 | 1.92 | 0.875 |
| | 09/12/11 | 15.8 | 0.542 | 0.467 |
| | 12/16/11 | 12.1 | 0.199 | 0.336 |
| | 03/21/12 | 12.2 | <0.0130 | 0.192 |
| | 06/13/12 | 6.18 | <0.0347 | 0.380 |
| | 09/27/12 | 3.50 | <0.0174 | 0.401 |
| | 12/14/12 | 0.210 | <0.000347 | 0.0317 |
| MW-9 | 09/20/08 | 14.1 | 5.20 | 1.10 |
| | 09/03/09 | 16.5 | 8.40 | 1.38 |
| | 12/14/11 | - | - | - |
| | 03/21/12 | - | - | - |
| | 06/12/12 | - | - | - |
| | 09/26/12 | - | - | - |
| | 12/14/12 | - | - | - |



Table 2 - Groundwater Contaminant Concentrations BTEX
Moore to Jail #2
SRS #2002-10273

| Sample Designation | Date Sampled | Notes | Concentration (mg/L) | |
|--------------------|--------------|-----------|----------------------|---------------|
| | | | BTEX | Total Xylenes |
| MW-10 | 03/27/08 | 0.0283 | 0.00240 | BRL |
| | 06/30/08 | BRL | BRL | BRL |
| | 09/19/08 | BRL | BRL | BRL |
| | 12/17/08 | 0.00790 | BRL | BRL |
| | 02/03/09 | BRL | BRL | BRL |
| | 06/23/09 | 0.00670 | BRL | BRL |
| | 09/02/09 | BRL | BRL | <0.00100 |
| | 11/11/09 | BRL | BRL | BRL |
| | 02/18/10 | BRL | BRL | BRL |
| | 06/16/10 | 0.00160 | BRL | 0.00280 |
| | 09/28/10 | 0.00160 | BRL | BRL |
| | 12/23/10 | BRL | BRL | BRL |
| | 03/24/11 | BRL | BRL | BRL |
| | 06/16/11 | BRL | BRL | BRL |
| | 09/14/11 | BRL | BRL | BRL |
| | 12/15/11 | BRL | BRL | BRL |
| | 03/21/12 | 0.00130 | <0.000259 | <0.000291 |
| | 06/12/12 | <0.000371 | <0.000347 | <0.000326 |
| | 09/26/12 | <0.000371 | <0.000347 | <0.000326 |
| | 12/14/12 | <0.000371 | <0.000347 | <0.000326 |



Table 2 - Groundwater Contaminant Concentrations BTEX
Moore to Jal #2
SRS #2002-10273

| Sample Designation | Date Sampled | Notes | | Concentration (mg/L) |
|--------------------|--------------|-----------|-----------|----------------------|
| | | MTBE | BTEX | |
| MW-11 | 03/27/08 | 0.0533 | 0.0177 | 0.00230 |
| | 06/30/08 | 0.00190 | BRL | BRL |
| | 09/19/08 | 0.0171 | 0.00310 | BRL |
| | 12/17/08 | 0.00340 | BRL | BRL |
| | 02/03/09 | 0.00620 | 0.00120 | BRL |
| | 06/23/09 | BRL | BRL | BRL |
| | 09/02/09 | 0.00250 | BRL | <0.00100 |
| | 11/11/09 | 0.0819 | 0.0280 | 0.0230 |
| | 02/18/10 | 0.00230 | BRL | BRL |
| | 06/16/10 | 0.00990 | 0.00410 | 0.00120 |
| | 09/28/10 | BRL | BRL | BRL |
| | 12/23/10 | BRL | BRL | BRL |
| | 03/24/11 | BRL | BRL | BRL |
| | 06/16/11 | RRI | BRL | BRL |
| | 09/13/11 | BRL | BRL | BRL |
| | 12/15/11 | BRL | BRL | BRL |
| | 03/21/12 | <0.000310 | <0.000259 | <0.000291 |
| | 06/12/12 | <0.000371 | <0.000347 | <0.000326 |
| | 09/26/12 | <0.000371 | <0.000347 | <0.000326 |
| | 12/14/12 | <0.000371 | <0.000347 | <0.000326 |



Table 2 - Groundwater Contaminant Concentrations BTEX
Moore to Jail #2
SRS #2002-10273

| Sample Designation | Date Sampled | Notes | | Concentration (mg/L) |
|--------------------|--------------|-----------|-----------|----------------------|
| | | MTBE | BTEX | |
| MW-12 | 03/27/08 | 0.0566 | 0.0189 | 0.00270 |
| | 06/30/08 | 0.00780 | BRL | BRL |
| | 09/19/08 | 0.0151 | 0.00140 | BRL |
| | 12/17/08 | 0.00400 | BRL | BRL |
| | 02/03/09 | 0.00210 | BRL | BRL |
| | 06/23/09 | 0.00550 | BRL | BRL |
| | 09/02/09 | 0.00650 | BRL | <0.00100 |
| | 11/11/09 | 0.0654 | 0.0244 | 0.0150 |
| | 02/18/10 | 0.00670 | 0.00480 | 0.0184 |
| | 06/16/10 | 0.0272 | 0.00980 | BRL |
| | 09/28/10 | 0.00110 | BRL | BRL |
| | 12/23/10 | 0.0109 | 0.00830 | BRL |
| | 03/23/11 | BRL | BRL | 0.00810 |
| | 06/16/11 | 0.0102 | BRL | BRL |
| | 09/12/11 | 0.00140 | BRL | BRL |
| | 12/15/11 | BRL | BRL | BRL |
| | 03/21/12 | <0.000310 | <0.000259 | <0.000291 |
| | 06/12/12 | <0.000371 | <0.000347 | <0.000326 |
| | 09/26/12 | <0.000371 | <0.000347 | <0.000326 |
| | 12/14/12 | <0.000310 | 0.00140 | <0.000291 |
| | | | | 0.00100 |
| | | | | <0.000954 |



Table 2 - Groundwater Contaminant Concentrations BTEX
Moore to Jal #2
SRS #2002-10273

| Sample Designation | Date Sampled | Notes | | Concentration (mg/L) |
|--------------------|--------------|-----------|-----------|----------------------|
| | | MTBE | BTEX | |
| MW-13 | 03/27/08 | 0.598 | BRL | 0.0115 |
| | 06/30/08 | 0.191 | BRL | - |
| | 09/19/08 | 2.82 | BRL | 0.0575 |
| | 12/17/08 | 2.41 | BRL | 0.0206 |
| | 02/03/09 | 2.90 | BRL | - |
| | 06/23/09 | 4.63 | BRL | - |
| | 09/02/09 | 4.29 | BRL | - |
| | 11/11/09 | 14.3 | BRL | 0.311 |
| | 02/18/10 | 14.5 | BRL | 0.478 |
| | 06/16/10 | 11.3 | BRL | 0.229 |
| | 09/28/10 | 16.3 | BRL | 0.397 |
| | 12/23/10 | 6.14 | BRL | - |
| | 03/23/11 | 11.3 | BRL | 0.933 |
| | 06/16/11 | 15.1 | BRL | 0.702 |
| | 09/12/11 | 23.1 | BRL | 0.537 |
| | 12/15/11 | 36.6 | BRL | 0.703 |
| | 03/21/12 | 33.2 | <0.0518 | 0.409 |
| | 06/13/12 | 33.6 | <0.0694 | <0.0652 |
| | 09/27/12 | 17.1 | <0.0174 | 0.102 |
| | 12/14/12 | 10.7 | <0.0130 | 0.0690 |
| MW-14 | 04/13/10 | BRL | BRL | - |
| | 06/16/10 | BRL | BRL | - |
| | 09/28/10 | 0.00320 | 0.00130 | BRL |
| | 12/23/10 | BRL | BRL | BRL |
| | 03/23/11 | BRL | BRL | BRL |
| | 06/16/11 | BRL | BRL | BRL |
| | 09/12/11 | BRL | BRL | BRL |
| | 12/15/11 | BRL | BRL | BRL |
| | 03/21/12 | <0.000310 | <0.000259 | <0.000291 |
| | 06/12/12 | <0.000371 | <0.000347 | <0.000326 |
| | 09/27/12 | <0.000371 | <0.000347 | <0.000326 |
| | 12/14/12 | <0.000310 | <0.000259 | <0.000291 |



Table 2 - Groundwater Contaminant Concentrations BTEX
Moore to Jail #2
SRS #2002-10273

| Sample Designation | Date Sampled | Notes | | Concentration (mg/L) | |
|--------------------|--------------|---------|-----------|----------------------|--|
| | | MTBE | | | |
| | | BTEX | | | |
| MW-15 | 04/13/10 | BRL | BRL | BRL | |
| | 06/16/10 | BRL | BRL | BRL | |
| | 09/28/10 | BRL | BRL | BRL | |
| | 12/23/10 | BRL | BRL | BRL | |
| | 03/23/11 | BRL | BRL | BRL | |
| | 06/16/11 | BRL | BRL | BRL | |
| | 09/12/11 | BRL | BRL | BRL | |
| | 12/15/11 | 0.0358 | BRL | 0.00100 | |
| | 03/21/12 | 1.05 | <0.00259 | 0.0252 | |
| | 06/13/12 | 3.14 | <0.0259 | BRL | |
| MW-16 | 09/27/12 | 7.89 | <0.0174 | 0.113 | |
| | 12/14/12 | 9.63 | <0.0130 | <0.0477 | |
| | 04/13/10 | BRL | BRL | BRL | |
| | 06/16/10 | 0.00200 | BRL | BRL | |
| | 09/28/10 | 0.00270 | BRL | BRL | |
| | 12/23/10 | BRL | BRL | BRL | |
| | 03/23/11 | 0.00760 | BRL | BRL | |
| | 06/16/11 | 0.0305 | BRL | BRL | |
| | 09/12/11 | 0.0355 | BRL | 0.0355 | |
| | 12/15/11 | BRL | BRL | BRL | |
| | 03/21/12 | 0.0675 | <0.000259 | 0.00380 | |
| | 06/13/12 | 0.0162 | <0.000259 | BRL | |
| | 09/27/12 | 0.0114 | <0.000347 | BRL | |
| | 12/14/12 | 0.0546 | <0.000259 | <0.000954 | |
| | | | | 0.00420 | |
| | | | | | |



Table 2 - Groundwater Contaminant Concentrations BTEX
Moore to Jal #2
"All the Pieces"
SRS #2002-10273

| Sample Designation | Date Sampled | Notes | | BTEX | MTBE | Total Xylenes | Concentration (mg/L) |
|--------------------|--------------|------------|--------------|-----------|------|---------------|----------------------|
| | | Xylene (o) | Xylene (p/m) | | | | |
| MW-17 | 09/28/10 | 0.0729 | 0.00440 | BRL | - | - | 0.00610 |
| | 12/23/10 | 0.175 | BRL | BRL | - | - | 0.0131 |
| | 03/24/11 | 0.104 | 0.00740 | BRL | - | - | 0.0236 |
| | 06/16/11 | 0.0545 | BRL | BRL | - | - | 0.0193 |
| | 09/14/11 | 0.0121 | BRL | BRL | - | - | 0.00410 |
| | 12/15/11 | BRL | BRL | BRL | - | - | 0.0170 |
| | 03/21/12 | <0.000310 | <0.000259 | <0.000291 | BRL | - | - |
| | 06/12/12 | <0.000310 | <0.000259 | <0.000291 | BRL | - | - |
| | 09/27/12 | <0.000371 | <0.000347 | <0.000326 | BRL | - | <0.000954 |
| | 12/14/12 | <0.000310 | 0.00120 | <0.000291 | - | - | - |
| MW-18 | 09/28/10 | 0.111 | 0.00220 | BRL | - | - | 0.00240 |
| | 12/23/10 | 0.431 | BRL | BRL | - | - | 0.00310 |
| | 03/24/11 | 0.378 | BRL | BRL | - | - | 0.0158 |
| | 06/14/11 | 0.415 | BRL | BRL | - | - | 0.0293 |
| | 09/13/11 | 0.538 | BRL | BRL | - | - | 0.0281 |
| | 12/15/11 | 0.194 | BRL | BRL | - | - | BRL |
| | 03/21/12 | <0.000310 | <0.000259 | <0.000291 | - | - | 0.538 |
| | 06/12/12 | 0.0696 | <0.000347 | <0.000326 | - | - | BRL |
| | 09/27/12 | 0.308 | <0.000347 | <0.000326 | - | - | <0.000954 |
| | 12/14/12 | 0.0465 | <0.000259 | <0.000291 | - | - | - |
| MW-19 | 09/28/10 | 0.0854 | BRL | BRL | - | - | 0.00330 |
| | 12/23/10 | 0.120 | 0.00390 | BRL | - | - | 0.0138 |
| | 03/24/11 | 0.112 | 0.00770 | BRL | - | - | 0.0239 |
| | 06/14/11 | 0.117 | BRL | BRL | - | - | 0.0168 |
| | 09/13/11 | 0.0906 | BRL | BRL | - | - | 0.00890 |
| | 12/15/11 | 0.0282 | BRL | BRL | - | - | 0.00230 |
| | 03/21/12 | 0.0341 | <0.000259 | <0.000291 | - | - | 0.00100 |
| | 06/12/12 | 0.0393 | <0.000347 | <0.000326 | - | - | 0.00170 |
| | 09/27/12 | 0.0501 | <0.000259 | <0.000291 | - | - | 0.00260 |
| | 12/14/12 | 0.00980 | <0.000259 | <0.000291 | - | - | BRL |
| | | | | | | | <0.000331 |



Table 2 - Groundwater Contaminant Concentrations BTEX
Moore to Jail #2
SRS #2002-10273

| Sample Designation | Date Sampled | Notes | | Concentration (mg/L) | |
|--------------------|--------------|---------------|--------------|----------------------|--|
| | | MTBE | | | |
| | | BTEX | | | |
| Benzene | | Total Xylenes | | | |
| | | Xylene (o) | Xylene (p/m) | | |
| Toluene | | Ethylbenzene | | | |
| | | Xylene (p/m) | Ethylbenzene | | |
| MW-20 | 09/28/10 | 0.00170 | BRL | BRL | |
| | 12/23/10 | BRL | BRL | BRL | |
| | 03/23/11 | BRL | BRL | BRL | |
| | 06/14/11 | BRL | BRL | BRL | |
| | 09/13/11 | BRL | BRL | BRL | |
| | 12/15/11 | BRL | BRL | BRL | |
| | 03/21/12 | <0.000310 | <0.000259 | <0.000291 | |
| | 06/12/12 | 0.0121 | <0.000347 | <0.000326 | |
| | 09/26/12 | <0.000371 | <0.000347 | <0.000326 | |
| | 12/14/12 | <0.000310 | <0.000259 | <0.000291 | |
| MW-21 | 09/28/10 | 0.00140 | 0.00150 | BRL | |
| | 12/23/10 | BRL | BRL | BRL | |
| | 03/23/11 | BRL | BRL | BRL | |
| | 06/14/11 | BRL | BRL | BRL | |
| | 09/13/11 | BRL | BRL | BRL | |
| | 12/15/11 | BRL | BRL | BRL | |
| | 03/21/12 | <0.000310 | <0.000259 | <0.000291 | |
| | 06/12/12 | <0.000371 | <0.000347 | <0.000326 | |
| | 09/26/12 | <0.000371 | <0.000347 | <0.000326 | |
| | 12/14/12 | <0.000310 | <0.000259 | <0.000291 | |

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes, analyzed by EPA Method 8021
C6-C12, >C12-C28, >C28-C35, and C6-C35 analyzed by Method Tx1005

A = Not sampled due to PSH

I = Not sampled - well dry



Table 3 - Groundwater Contaminant Concentrations - PAH Supplement
Moore to Jal #2
SRS #2002-10273

All the Pieces!

| Sample Designation | Date Sampled | Concentration (mg/l) | | | | | | | | | | | | | | Notes | | | |
|--------------------|------------------|----------------------|-----|--------------|-----|-------------|---------|------------------------|-----|----------|---------|--------------|---------|--------------|---------|---------|--------|---------|---------|
| | | Pyrene | | Phenanthrene | | Naphthalene | | Indeno(1,2,3-cd)pyrene | | Fluorene | | Fluoranthene | | Dibenzofuran | | | | | |
| MW-1 | 09/20/08 0.161 | 0.184 | BRL | BRL | BRL | BRL | 0.00392 | BRL | BRL | 0.0167 | 0.00891 | 0.0220 | BRL | 0.0932 | 0.0271 | 0.00158 | | | |
| | 09/09/09 0.712 | 0.852 | BRL | BRL | BRL | BRL | 0.0144 | BRL | BRL | 0.0559 | BRL | 0.0758 | BRL | 0.3339 | 0.104 | BRL | | | |
| | 12/14/11 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 03/21/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 06/12/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 09/26/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 12/14/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| MW-2 | 09/20/08 0.165 | 0.213 | BRL | BRL | BRL | BRL | 0.00762 | BRL | BRL | 0.0141 | 0.00104 | 0.0210 | BRL | 0.0747 | 0.0253 | 0.00289 | | | |
| | 09/02/09 - | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | | |
| | 12/16/11 - | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | | |
| MW-3 | 09/20/08 0.807 | 0.872 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.430 | 0.0445 | BRL | | |
| | 03/21/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| | 06/12/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| | 09/26/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| | 12/14/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| | 03/21/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| | 06/12/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| | 09/26/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| MW-4 | 09/19/08 0.0355 | 0.0351 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.00265 | BRL | 0.00335 | BRL | 0.0675 | 0.00108 | BRL | | |
| | 09/03/09 0.0160 | 0.00812 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.00984 | BRL | 0.00240 | BRL | 0.0232 | 0.00904 | BRL | | |
| | 06/16/11 0.00546 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.00594 | BRL | BRL | | |
| | 12/14/11 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| | 03/21/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 06/12/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 09/26/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 12/14/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| MW-5 | 09/20/08 0.268 | 0.312 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.00461 | BRL | 0.0199 | 0.00119 | 0.0289 | BRL | 0.1448 | 0.0336 | 0.00166 |
| | 09/03/09 3.05 | 3.61 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.208 | BRL | 0.302 | BRL | 1.47 | 0.380 | BRL | - | |
| | 12/14/11 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 03/21/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 06/12/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 09/26/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 12/14/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| MW-6 | 09/20/08 0.0228 | 0.0266 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.00088 | BRL | 0.00269 | BRL | 0.00377 | BRL | 0.0166 | 0.00430 | BRL |
| | 09/03/09 0.832 | 0.992 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.0496 | BRL | 0.0686 | BRL | 0.431 | 0.0934 | BRL | - | |
| | 12/14/11 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 03/21/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 06/12/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 09/26/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 12/14/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| MW-7 | 09/20/08 0.0314 | 0.0362 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.00403 | BRL | 0.0422 | 0.00239 | BRL | - | - | | |
| | 09/03/09 0.882 | 1.05 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.0893 | BRL | 0.435 | 0.125 | BRL | - | - | | |
| | 12/14/11 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 03/21/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 06/12/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 09/26/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |
| | 12/14/12 - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | | | |



Table 3 - Groundwater Contaminant Concentrations - PAH Supplement
Moore to Jail #2
SRS #2002-10273

| Sample Designation | Date Sampled | Concentration (mg/L) | | | | | | | | | | | | | | Notes | |
|--------------------|--------------|----------------------|----------|--------------|---------|-------------|---------|------------------------|---------|----------|---------|--------------|---------|--------------|----------|----------|----------|
| | | Pyrene | | Phenanthrene | | Naphthalene | | Indeno(1,2,3-cd)pyrene | | Fluorene | | Fluoranthene | | Dibenzofuran | | | |
| MW-8 | 09/19/08 | 0.00204 | 0.000287 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.000406 | BRL | BRL | |
| | 09/02/09 | 0.00735 | 0.00685 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.0108 | BRL | BRL | |
| MW-9 | 09/20/08 | 0.0702 | 0.0832 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.007351 | 0.000356 | - | |
| | 09/03/08 | 0.283 | 0.338 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.0840 | - | - | |
| | 12/14/11 | - | - | - | - | - | - | - | - | - | - | - | - | 0.132 | 0.0406 | BRL | |
| | 03/24/12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | |
| | 06/12/12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | |
| | 09/26/12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | |
| | 12/14/12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | |
| MW-10 | 09/19/08 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | - |
| | 09/02/09 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | - |
| MW-11 | 09/19/08 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | - |
| | 09/02/09 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | - |
| MW-12 | 09/19/08 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | - |
| | 09/02/09 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | - |
| MW-13 | 09/19/08 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | - |
| | 09/02/09 | 0.00386 | 0.0126 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.000441 | BRL | - |
| MW-17 | 12/15/11 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.000416 | BRL | BRL |
| | 12/14/12 | 0.00010 | 0.00089 | 0.00012 | 0.00089 | 0.00010 | 0.00071 | 0.00010 | 0.00069 | 0.00010 | 0.00074 | 0.00008 | 0.00010 | 0.00012 | 0.000089 | 0.000121 | 0.000086 |
| MW-18 | 12/15/11 | 0.00175 | 0.00129 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 0.002721 | 0.000244 | BRL |
| | 12/14/12 | 0.00182 | 0.00082 | 0.0012 | 0.00089 | 0.00010 | 0.00069 | 0.00010 | 0.00069 | 0.00010 | 0.00079 | 0.000078 | 0.00010 | 0.00012 | 0.000099 | 0.000121 | 0.000066 |
| MW-19 | 12/15/11 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |
| | 12/14/12 | 0.00010 | 0.00089 | 0.00012 | 0.00071 | 0.00010 | 0.00071 | 0.00010 | 0.00068 | 0.00010 | 0.00071 | 0.000071 | 0.00010 | 0.00012 | 0.000081 | 0.000121 | 0.000083 |

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes, analyzed by EPA Method 8021
C6-C12, >C12-C28, >C28-C35, and C6-C35 analyzed by Method TX1005

A = Not sampled due to FSH

I = Not sampled - well dry

APPENDIX C

Laboratory Analytical Data Reports and Chains of Custody Documentation

Summary Report

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

Report Date: March 27, 2012

Work Order: 12032303

Project Location: Hobbs, NM
 Project Name: Jal #2
 Project Number: 700376.045.01
 SRS #: 2002-10273

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 292131 | MW2 | water | 2012-03-21 | 10:00 | 2012-03-22 |
| 292132 | MW8 | water | 2012-03-21 | 10:05 | 2012-03-22 |
| 292133 | MW10 | water | 2012-03-21 | 10:10 | 2012-03-22 |
| 292134 | MW11 | water | 2012-03-21 | 10:15 | 2012-03-22 |
| 292135 | MW12 | water | 2012-03-21 | 10:20 | 2012-03-22 |
| 292136 | MW13 | water | 2012-03-21 | 10:25 | 2012-03-22 |
| 292137 | MW14 | water | 2012-03-21 | 10:30 | 2012-03-22 |
| 292138 | MW15 | water | 2012-03-21 | 10:35 | 2012-03-22 |
| 292139 | MW16 | water | 2012-03-21 | 10:40 | 2012-03-22 |
| 292140 | MW17 | water | 2012-03-21 | 10:45 | 2012-03-22 |
| 292141 | MW18 | water | 2012-03-21 | 10:50 | 2012-03-22 |
| 292142 | MW19 | water | 2012-03-21 | 10:55 | 2012-03-22 |
| 292143 | MW20 | water | 2012-03-21 | 11:00 | 2012-03-22 |
| 292144 | MW21 | water | 2012-03-21 | 11:05 | 2012-03-22 |

| Sample - Field Code | BTEX | | | | MTBE MTBE (mg/L) |
|---------------------|----------------------|-------------------------|-------------------------|-------------------------|------------------------|
| | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylene (mg/L) | |
| 292131 - MW2 | 0.00890 ¹ | 0.0112 | <0.00500 | 0.0124 | |
| 292132 - MW8 | 12.2 | <0.0500 | 0.192 | 0.155 | |
| 292133 - MW10 | 0.00130 | <0.00100 | <0.00100 | <0.00100 | |
| 292134 - MW11 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | |
| 292135 - MW12 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | |
| 292136 - MW13 | 33.2 | <0.200 Q _r | 0.409 Q _r | 0.540 Q _r | |
| 292137 - MW14 | <0.00100 | <0.00100 Q _r | <0.00100 Q _r | <0.00100 Q _r | |
| 292138 - MW15 | 1.05 | <0.0100 Q _r | <0.0100 Q _r | 0.0252 Q _r | |
| 292139 - MW16 | 0.0675 | <0.00100 | <0.00100 | 0.00380 | |

continued ...

¹ Sample dilution due to soil in the voa.

...continued

| Sample - Field Code | BTEX | | | | MTBE MTBE (mg/L) |
|---------------------|-------------------|-------------------|------------------------|------------------|------------------------|
| | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylene (mg/L) | |
| 292140 - MW17 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | |
| 292141 - MW18 | <0.00100 | <0.00100 | <0.00100 | 0.00390 | |
| 292142 - MW19 | 0.0341 | <0.00100 | <0.00100 | 0.00100 | |
| 292143 - MW20 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | |
| 292144 - MW21 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | |

TRACEANALYSIS, INC.

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: March 27, 2012

Work Order: 12032303

Project Location: Hobbs, NM
Project Name: Jal #2
Project Number: 700376.045.01
SRS #: 2002-10273

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 292131 | MW2 | water | 2012-03-21 | 10:00 | 2012-03-22 |
| 292132 | MW8 | water | 2012-03-21 | 10:05 | 2012-03-22 |
| 292133 | MW10 | water | 2012-03-21 | 10:10 | 2012-03-22 |
| 292134 | MW11 | water | 2012-03-21 | 10:15 | 2012-03-22 |
| 292135 | MW12 | water | 2012-03-21 | 10:20 | 2012-03-22 |
| 292136 | MW13 | water | 2012-03-21 | 10:25 | 2012-03-22 |
| 292137 | MW14 | water | 2012-03-21 | 10:30 | 2012-03-22 |
| 292138 | MW15 | water | 2012-03-21 | 10:35 | 2012-03-22 |
| 292139 | MW16 | water | 2012-03-21 | 10:40 | 2012-03-22 |
| 292140 | MW17 | water | 2012-03-21 | 10:45 | 2012-03-22 |
| 292141 | MW18 | water | 2012-03-21 | 10:50 | 2012-03-22 |
| 292142 | MW19 | water | 2012-03-21 | 10:55 | 2012-03-22 |
| 292143 | MW20 | water | 2012-03-21 | 11:00 | 2012-03-22 |
| 292144 | MW21 | water | 2012-03-21 | 11:05 | 2012-03-22 |

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

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



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

Report Contents

| | |
|---|-----------|
| Case Narrative | 4 |
| Analytical Report | 5 |
| Sample 292131 (MW2) | 5 |
| Sample 292132 (MW8) | 5 |
| Sample 292133 (MW10) | 5 |
| Sample 292134 (MW11) | 6 |
| Sample 292135 (MW12) | 6 |
| Sample 292136 (MW13) | 7 |
| Sample 292137 (MW14) | 7 |
| Sample 292138 (MW15) | 8 |
| Sample 292139 (MW16) | 8 |
| Sample 292140 (MW17) | 9 |
| Sample 292141 (MW18) | 9 |
| Sample 292142 (MW19) | 10 |
| Sample 292143 (MW20) | 10 |
| Sample 292144 (MW21) | 11 |
| Method Blanks | 12 |
| QC Batch 89652 - Method Blank (1) | 12 |
| QC Batch 89704 - Method Blank (1) | 12 |
| Laboratory Control Spikes | 13 |
| QC Batch 89652 - LCS (1) | 13 |
| QC Batch 89704 - LCS (1) | 13 |
| QC Batch 89652 - MS (1) | 14 |
| QC Batch 89704 - MS (1) | 14 |
| Calibration Standards | 16 |
| QC Batch 89652 - CCV (1) | 16 |
| QC Batch 89652 - CCV (2) | 16 |
| QC Batch 89652 - CCV (3) | 16 |
| QC Batch 89704 - CCV (1) | 16 |
| QC Batch 89704 - CCV (2) | 17 |
| Appendix | 18 |
| Report Definitions | 18 |
| Laboratory Certifications | 18 |
| Standard Flags | 18 |
| Result Comments | 18 |
| Attachments | 18 |

Case Narrative

Samples for project Jal #2 were received by TraceAnalysis, Inc. on 2012-03-22 and assigned to work order 12032303. Samples for work order 12032303 were received intact at a temperature of 2.3 C.

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

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|------|---------|------------|---------------------|----------|---------------------|
| BTEX | S 8021B | 76103 | 2012-03-23 at 09:06 | 89652 | 2012-03-23 at 09:06 |
| BTEX | S 8021B | 76142 | 2012-03-26 at 14:24 | 89704 | 2012-03-26 at 14:24 |

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 12032303 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: March 27, 2012
700376.045.01

Work Order: 12032303
Jal #2

Page Number: 5 of 19
Hobbs, NM

Analytical Report

Sample: 292131 - MW2

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 89652
Prep Batch: 76103

Analytical Method: S 8021B
Date Analyzed: 2012-03-23
Sample Preparation: 2012-03-23

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

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|----------------|-------|----------|---------|
| Benzene | I | 1 | 0.00890 | mg/L | 5 | 0.00100 |
| Toluene | | 1 | 0.0112 | mg/L | 5 | 0.00100 |
| Ethylbenzene | U | 1 | <0.00500 | mg/L | 5 | 0.00100 |
| Xylene | B | 1 | 0.0124 | mg/L | 5 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.456 | mg/L | 5 | 0.500 | 91 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.437 | mg/L | 5 | 0.500 | 87 | 70 - 130 |

Sample: 292132 - MW8

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 89652
Prep Batch: 76103

Analytical Method: S 8021B
Date Analyzed: 2012-03-23
Sample Preparation: 2012-03-23

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

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene | | 1 | 12.2 | mg/L | 50 | 0.00100 |
| Toluene | | 1 | <0.0500 | mg/L | 50 | 0.00100 |
| Ethylbenzene | | 1 | 0.192 | mg/L | 50 | 0.00100 |
| Xylene | B | 1 | 0.155 | mg/L | 50 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 4.99 | mg/L | 50 | 5.00 | 100 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 4.46 | mg/L | 50 | 5.00 | 89 | 70 - 130 |

Report Date: March 27, 2012
700376.045.01

Work Order: 12032303
Jal #2

Page Number: 6 of 19
Hobbs, NM

Sample: 292133 - MW10

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 89652

Prep Batch: 76103

Analytical Method: S 8021B

Date Analyzed: 2012-03-23

Sample Preparation: 2012-03-23

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.0895 | mg/L | 1 | 0.100 | 90 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0872 | mg/L | 1 | 0.100 | 87 | 70 - 130 |

Sample: 292134 - MW11

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 89652

Prep Batch: 76103

Analytical Method: S 8021B

Date Analyzed: 2012-03-23

Sample Preparation: 2012-03-23

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.0891 | mg/L | 1 | 0.100 | 89 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0870 | mg/L | 1 | 0.100 | 87 | 70 - 130 |

Report Date: March 27, 2012
700376.045.01

Work Order: 12032303
Jal #2

Page Number: 7 of 19
Hobbs, NM

Sample: 292135 - MW12

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 89652

Prep Batch: 76103

Analytical Method: S 8021B

Date Analyzed: 2012-03-23

Sample Preparation: 2012-03-23

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0886 | mg/L | 1 | 0.100 | 89 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0865 | mg/L | 1 | 0.100 | 86 | 70 - 130 |

Sample: 292136 - MW13

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 89704

Prep Batch: 76142

Analytical Method: S 8021B

Date Analyzed: 2012-03-26

Sample Preparation: 2012-03-26

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|--------|-------|----------|---------|
| Benzene | | 1 | 33.2 | mg/L | 200 | 0.00100 |
| Toluene | Qr,U | 1 | <0.200 | mg/L | 200 | 0.00100 |
| Ethylbenzene | B,Qr | 1 | 0.409 | mg/L | 200 | 0.00100 |
| Xylene | B,Qr | 1 | 0.540 | mg/L | 200 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 20.1 | mg/L | 200 | 20.0 | 100 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 19.4 | mg/L | 200 | 20.0 | 97 | 70 - 130 |

Report Date: March 27, 2012
700376.045.01

Work Order: 12032303
Jal #2

Page Number: 8 of 19
Hobbs, NM

Sample: 292137 - MW14

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2012-03-26 | Analyzed By: | ZLM |
| QC Batch: | 89704 | Sample Preparation: | 2012-03-26 | Prepared By: | ZLM |
| Prep Batch: | 76142 | | | | |

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.0951 | ng/L | 1 | 0.100 | 95 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0963 | ng/L | 1 | 0.100 | 96 | 70 - 130 |

Sample: 292138 - MW15

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2012-03-26 | Analyzed By: | ZLM |
| QC Batch: | 89704 | Sample Preparation: | 2012-03-26 | Prepared By: | ZLM |
| Prep Batch: | 76142 | | | | |

| Parameter | Flag | Cert | Result | RL | | Dilution | RL |
|--------------|-------|------|---------|-------|--|----------|---------|
| | | | | Units | | | |
| Benzene | | 1 | 1.05 | mg/L | | 10 | 0.00100 |
| Toluene | Q,r,U | 1 | <0.0100 | mg/L | | 10 | 0.00100 |
| Ethylbenzene | Q,r,U | 1 | <0.0100 | mg/L | | 10 | 0.00100 |
| Xylene | B,Q,r | 1 | 0.0252 | mg/L | | 10 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.991 | ng/L | 10 | 1.00 | 99 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.988 | ng/L | 10 | 1.00 | 99 | 70 - 130 |

Report Date: March 27, 2012
700376.045.01

Work Order: 12032303
Jal #2

Page Number: 9 of 19
Hobbs, NM

Sample: 292139 - MW16

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2012-03-23 | Analyzed By: | MT |
| QC Batch: | 89652 | Sample Preparation: | 2012-03-23 | Prepared By: | MT |
| Prep Batch: | 76103 | | | | |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|----------------|-------|----------|---------|
| Benzene | | 1 | 0.0675 | mg/L | 1 | 0.00100 |
| Toluene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | JB | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | B | 1 | 0.00380 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0961 | mg/L | 1 | 0.100 | 96 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0882 | mg/L | 1 | 0.100 | 88 | 70 - 130 |

Sample: 292140 - MW17

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2012-03-23 | Analyzed By: | MT |
| QC Batch: | 89652 | Sample Preparation: | 2012-03-23 | Prepared By: | MT |
| Prep Batch: | 76103 | | | | |

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0907 | mg/L | 1 | 0.100 | 91 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0877 | mg/L | 1 | 0.100 | 88 | 70 - 130 |

Report Date: March 27, 2012
700376.045.01

Work Order: 12032303
Jal #2

Page Number: 10 of 19
Hobbs, NM

Sample: 292141 - MW18

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 89652

Prep Batch: 76103

Analytical Method: S 8021B

Date Analyzed: 2012-03-23

Sample Preparation: 2012-03-23

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery | Limits |
|------------------------------|------|------|--------|-------|----------|--------|---------|----------|--------|
| | | | | | | Amount | | | |
| Trifluorotoluene (TFT) | | | 0.102 | ng/L | 1 | 0.100 | 102 | 70 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0880 | ng/L | 1 | 0.100 | 88 | 70 - 130 | |

Sample: 292142 - MW19

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 89652

Prep Batch: 76103

Analytical Method: S 8021B

Date Analyzed: 2012-03-23

Sample Preparation: 2012-03-23

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

| Parameter | Flag | Cert | RL | | Dilution | RL |
|--------------|------|------|----------|-------|----------|---------|
| | | | Result | Units | | |
| Benzene | | 1 | 0.0341 | mg/L | 1 | 0.00100 |
| Toluene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | b | 1 | 0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery | Limits |
|------------------------------|------|------|--------|-------|----------|--------|---------|----------|--------|
| | | | | | | Amount | | | |
| Trifluorotoluene (TFT) | | | 0.0830 | ng/L | 1 | 0.100 | 83 | 70 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0894 | ng/L | 1 | 0.100 | 89 | 70 - 130 | |

Report Date: March 27, 2012
700376.045.01

Work Order: 12032303
Jal #2

Page Number: 11 of 19
Hobbs, NM

Sample: 292143 - MW20

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 89652

Prep Batch: 76103

Analytical Method: S 8021B

Date Analyzed: 2012-03-23

Sample Preparation: 2012-03-23

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0899 | mg/L | 1 | 0.100 | 90 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0864 | mg/L | 1 | 0.100 | 86 | 70 - 130 |

Sample: 292144 - MW21

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 89652

Prep Batch: 76103

Analytical Method: S 8021B

Date Analyzed: 2012-03-23

Sample Preparation: 2012-03-23

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0900 | mg/L | 1 | 0.100 | 90 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0886 | mg/L | 1 | 0.100 | 89 | 70 - 130 |

Report Date: March 27, 2012
700376.045.01

Work Order: 12032303
Jal #2

Page Number: 12 of 19
Hobbs, NM

Method Blanks

Method Blank (1) QC Batch: 89652

QC Batch: 89652
Prep Batch: 76103

Date Analyzed: 2012-03-23
QC Preparation: 2012-03-23

Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | MDL | Result | Units | RL |
|--------------|------|------|-----------|--------|-------|----|
| Benzene | | 1 | <0.000310 | mg/L | 0.001 | |
| Toluene | | 1 | <0.000259 | mg/L | 0.001 | |
| Ethylbenzene | | 1 | 0.000300 | mg/L | 0.001 | |
| Xylene | | 1 | 0.000900 | mg/L | 0.001 | |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0891 | mg/L | 1 | 0.100 | 89 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0871 | mg/L | 1 | 0.100 | 87 | 70 - 130 |

Method Blank (1) QC Batch: 89704

QC Batch: 89704
Prep Batch: 76142

Date Analyzed: 2012-03-26
QC Preparation: 2012-03-26

Analyzed By: ZLM
Prepared By: ZLM

| Parameter | Flag | Cert | MDL | Result | Units | RL |
|--------------|------|------|-----------|--------|-------|----|
| Benzene | | 1 | <0.000310 | mg/L | 0.001 | |
| Toluene | | 1 | <0.000259 | mg/L | 0.001 | |
| Ethylbenzene | | 1 | 0.000400 | mg/L | 0.001 | |
| Xylene | | 1 | 0.00100 | mg/L | 0.001 | |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0954 | mg/L | 1 | 0.100 | 95 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0985 | mg/L | 1 | 0.100 | 98 | 70 - 130 |

Report Date: March 27, 2012
700376.045.01

Work Order: 12032303
Jal #2

Page Number: 13 of 19
Hobbs, NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 89652 Date Analyzed: 2012-03-23 Analyzed By: MT
Prep Batch: 76103 QC Preparation: 2012-03-23 Prepared By: MT

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Benzene | | 1 | 0.0917 | mg/L | 1 | 0.100 | <0.000310 | 92 | 74.2 - 120 |
| Toluene | | 1 | 0.0889 | mg/L | 1 | 0.100 | <0.000259 | 89 | 75.8 - 120 |
| Ethylbenzene | | 1 | 0.0897 | mg/L | 1 | 0.100 | 0.0003 | 90 | 71.8 - 120 |
| Xylene | | 1 | 0.270 | mg/L | 1 | 0.300 | 0.0009 | 90 | 73.8 - 120 |

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

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | | 1 | 0.0916 | mg/L | 1 | 0.100 | <0.000310 | 92 | 74.2 - 120 | 0 | 20 |
| Toluene | | 1 | 0.0892 | mg/L | 1 | 0.100 | <0.000259 | 89 | 75.8 - 120 | 0 | 20 |
| Ethylbenzene | | 1 | 0.0899 | mg/L | 1 | 0.100 | 0.0003 | 90 | 71.8 - 120 | 0 | 20 |
| Xylene | | 1 | 0.269 | mg/L | 1 | 0.300 | 0.0009 | 90 | 73.8 - 120 | 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) | | 0.0922 | 0.0919 | mg/L | 1 | 0.100 | 92 | 92 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0900 | 0.0901 | mg/L | 1 | 0.100 | 90 | 90 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 89704 Date Analyzed: 2012-03-26 Analyzed By: ZLM
Prep Batch: 76142 QC Preparation: 2012-03-26 Prepared By: ZLM

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Benzene | | 1 | 0.104 | mg/L | 1 | 0.100 | <0.000310 | 104 | 74.2 - 120 |
| Toluene | | 1 | 0.106 | mg/L | 1 | 0.100 | <0.000259 | 106 | 75.8 - 120 |
| Ethylbenzene | | 1 | 0.104 | mg/L | 1 | 0.100 | 0.0004 | 104 | 71.8 - 120 |
| Xylene | | 1 | 0.312 | mg/L | 1 | 0.300 | 0.001 | 104 | 73.8 - 120 |

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

Report Date: March 27, 2012
700376.045.01

Work Order: 12032303
Jal #2

Page Number: 14 of 19
Hobbs, NM

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|----------------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
| Benzene | | 1 | 0.104 | mg/L | 1 | 0.100 | <0.000310 | 104 | 74.2 - 120 | 1 | 20 |
| Toluene | | 1 | 0.107 | mg/L | 1 | 0.100 | <0.000259 | 107 | 75.8 - 120 | 1 | 20 |
| Ethylbenzene | | 1 | 0.105 | mg/L | 1 | 0.100 | 0.0004 | 105 | 71.8 - 120 | 1 | 20 |
| Xylene | | 1 | 0.314 | mg/L | 1 | 0.300 | 0.001 | 105 | 73.8 - 120 | 1 | 20 |

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

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 0.100 | 0.0991 | mg/L | 1 | 0.100 | 100 | 99 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.102 | 0.101 | mg/L | 1 | 0.100 | 102 | 101 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 292118

QC Batch: 89652
Prep Batch: 76103

Date Analyzed: 2012-03-23
QC Preparation: 2012-03-23

Analyzed By: MT
Prepared By: MT

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|--------------|---------------|
| Benzene | | 1 | 0.0777 | mg/L | 1 | 0.100 | 0.0059 | 72 | 47 - 131 |
| Toluene | | 1 | 0.0752 | mg/L | 1 | 0.100 | <0.000259 | 75 | 52.2 - 128 |
| Ethylbenzene | | 1 | 0.0747 | mg/L | 1 | 0.100 | <0.000291 | 74 | 26.5 - 154 |
| Xylene | | 1 | 0.224 | mg/L | 1 | 0.300 | 0.0007 | 74 | 50.1 - 130 |

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

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
| Benzene | | 1 | 0.0717 | mg/L | 1 | 0.100 | 0.0059 | 66 | 47 - 131 | 8 | 20 |
| Toluene | | 1 | 0.0683 | mg/L | 1 | 0.100 | <0.000259 | 68 | 52.2 - 128 | 10 | 20 |
| Ethylbenzene | | 1 | 0.0697 | mg/L | 1 | 0.100 | <0.000291 | 70 | 26.5 - 154 | 7 | 20 |
| Xylene | | 1 | 0.208 | mg/L | 1 | 0.300 | 0.0007 | 69 | 50.1 - 130 | 7 | 20 |

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

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 0.0927 | 0.0905 | mg/L | 1 | 0.1 | 93 | 90 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.0904 | 0.0899 | mg/L | 1 | 0.1 | 90 | 90 | 70 - 130 |

Report Date: March 27, 2012
700376.045.01

Work Order: 12032303
Jal #2

Page Number: 15 of 19
Hobbs, NM

Matrix Spike (MS-1) Spiked Sample: 292136

QC Batch: 89704
Prep Batch: 76142

Date Analyzed: 2012-03-26
QC Preparation: 2012-03-26

Analyzed By: ZLM
Prepared By: ZLM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | | 1 | 50.0 | mg/L | 200 | 20.0 | 33.2 | 84 | 47 - 131 |
| Toluene | | 1 | 17.1 | mg/L | 200 | 20.0 | <0.0518 | 86 | 52.2 - 128 |
| Ethylbenzene | | 1 | 17.1 | mg/L | 200 | 20.0 | 0.409 | 83 | 26.5 - 154 |
| Xylene | | 1 | 50.8 | mg/L | 200 | 60.0 | 0.54 | 84 | 50.1 - 130 |

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

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|----------------|------------------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | | 1 | 49.1 | mg/L | 200 | 20.0 | 33.2 | 80 | 47 - 131 | 2 | 20 |
| Toluene | Q _r | Q _r 1 | 21.2 | mg/L | 200 | 20.0 | <0.0518 | 106 | 52.2 - 128 | 21 | 20 |
| Ethylbenzene | Q _r | Q _r 1 | 21.1 | mg/L | 200 | 20.0 | 0.409 | 103 | 26.5 - 154 | 21 | 20 |
| Xylene | Q _r | Q _r 1 | 62.8 | mg/L | 200 | 60.0 | 0.54 | 104 | 50.1 - 130 | 21 | 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) | 21.9 | 21.0 | mg/L | 200 | 20 | 110 | 105 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 20.2 | 20.3 | mg/L | 200 | 20 | 101 | 102 | 70 - 130 |

Report Date: March 27, 2012
700376.045.01

Work Order: 12032303
Jal #2

Page Number: 16 of 19
Hobbs, NM

Calibration Standards

Standard (CCV-1)

QC Batch: 89652 Date Analyzed: 2012-03-23 Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | 1 | | mg/L | 0.100 | 0.0929 | 93 | 80 - 120 | 2012-03-23 |
| Toluene | 1 | | mg/L | 0.100 | 0.0911 | 91 | 80 - 120 | 2012-03-23 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.0921 | 92 | 80 - 120 | 2012-03-23 |
| Xylene | 1 | | mg/L | 0.300 | 0.276 | 92 | 80 - 120 | 2012-03-23 |

Standard (CCV-2)

QC Batch: 89652 Date Analyzed: 2012-03-23 Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | 1 | | mg/L | 0.100 | 0.0894 | 89 | 80 - 120 | 2012-03-23 |
| Toluene | 1 | | mg/L | 0.100 | 0.0877 | 88 | 80 - 120 | 2012-03-23 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.0884 | 88 | 80 - 120 | 2012-03-23 |
| Xylene | 1 | | mg/L | 0.300 | 0.266 | 89 | 80 - 120 | 2012-03-23 |

Standard (CCV-3)

QC Batch: 89652 Date Analyzed: 2012-03-23 Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | 1 | | mg/L | 0.100 | 0.0908 | 91 | 80 - 120 | 2012-03-23 |
| Toluene | 1 | | mg/L | 0.100 | 0.0883 | 88 | 80 - 120 | 2012-03-23 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.0884 | 88 | 80 - 120 | 2012-03-23 |
| Xylene | 1 | | mg/L | 0.300 | 0.266 | 89 | 80 - 120 | 2012-03-23 |

Report Date: March 27, 2012
700376.045.01

Work Order: 12032303
Jal #2

Page Number: 17 of 19
Hobbs, NM

Standard (CCV-1)

QC Batch: 89704

Date Analyzed: 2012-03-26

Analyzed By: ZLM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.0976 | 98 | 80 - 120 | 2012-03-26 |
| Toluene | | 1 | mg/L | 0.100 | 0.0978 | 98 | 80 - 120 | 2012-03-26 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0976 | 98 | 80 - 120 | 2012-03-26 |
| Xylene | | 1 | mg/L | 0.300 | 0.292 | 97 | 80 - 120 | 2012-03-26 |

Standard (CCV-2)

QC Batch: 89704

Date Analyzed: 2012-03-26

Analyzed By: ZLM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.102 | 102 | 80 - 120 | 2012-03-26 |
| Toluene | | 1 | mg/L | 0.100 | 0.104 | 104 | 80 - 120 | 2012-03-26 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.102 | 102 | 80 - 120 | 2012-03-26 |
| Xylene | | 1 | mg/L | 0.300 | 0.305 | 102 | 80 - 120 | 2012-03-26 |

Appendix

Report Definitions

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

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | NELAP | T104704219-12-6 | Lubbock |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Result Comments

1 Sample dilution due to soil in the voa.

Attachments

Report Date: March 27, 2012
700376.045.01

Work Order: 12032303
Jal #2

Page Number: 19 of 19
Hobbs, NM

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

Summary Report

Chris Spore
 Talon LPE-Midland
 2901 State Highway 349
 Midland, TX 79706

Report Date: June 20, 2012
 Work Order: 12061401

Project Location: Hobbs, NM
 Project Name: Jal #2
 Project Number: 700376.045.01
 SRS #: 2002-10273

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 301025 | MW-2 | water | 2012-06-13 | 10:30 | 2012-06-13 |
| 301026 | MW-8 | water | 2012-06-13 | 10:05 | 2012-06-13 |
| 301027 | MW-10 | water | 2012-06-12 | 13:17 | 2012-06-13 |
| 301028 | MW-11 | water | 2012-06-12 | 11:15 | 2012-06-13 |
| 301029 | MW-12 | water | 2012-06-12 | 10:57 | 2012-06-13 |
| 301030 | MW-13 | water | 2012-06-13 | 10:17 | 2012-06-13 |
| 301031 | MW-14 | water | 2012-06-12 | 10:45 | 2012-06-13 |
| 301032 | MW-15 | water | 2012-06-13 | 09:50 | 2012-06-13 |
| 301033 | MW-16 | water | 2012-06-13 | 09:35 | 2012-06-13 |
| 301034 | MW-17 | water | 2012-06-12 | 11:35 | 2012-06-13 |
| 301035 | MW-18 | water | 2012-06-12 | 13:05 | 2012-06-13 |
| 301036 | MW-19 | water | 2012-06-12 | 13:35 | 2012-06-13 |
| 301037 | MW-20 | water | 2012-06-12 | 10:05 | 2012-06-13 |
| 301038 | MW-21 | water | 2012-06-12 | 10:15 | 2012-06-13 |

| Sample - Field Code | BTEX | | | | MTBE (mg/L) |
|---------------------|-----------------------|-------------------|------------------------|------------------|----------------|
| | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylene (mg/L) | |
| 301025 - MW-2 | <0.00500 ¹ | <0.00500 | <0.00500 | 0.00550 | |
| 301026 - MW-8 | 6.18 | <0.100 | 0.380 | <0.100 | |
| 301027 - MW-10 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | |
| 301028 - MW-11 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | |
| 301029 - MW-12 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | |
| 301030 - MW-13 | 33.6 | <0.200 | <0.200 | 0.286 | |
| 301031 - MW-14 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | |
| 301032 - MW-15 | 3.14 | <0.100 | <0.100 | <0.100 | |
| 301033 - MW-16 | 0.0162 | <0.00100 | <0.00100 | <0.00100 | |

continued ...

¹Sample dilution due to soil.

... continued

| Sample - Field Code | BTEX | | | | MTBE (mg/L) |
|---------------------|-------------------|-------------------|------------------------|------------------|----------------|
| | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylene (mg/L) | |
| 301034 - MW-17 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | |
| 301035 - MW-18 | 0.0696 | <0.00100 | <0.00100 | 0.00750 | |
| 301036 - MW-19 | 0.0393 | <0.00100 | <0.00100 | 0.00170 | |
| 301037 - MW-20 | 0.0121 | <0.00100 | <0.00100 | <0.00100 | |
| 301038 - MW-21 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | |

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Chris Spore
Talon LPE-Midland
2901 State Highway 349
Midland, TX, 79706

Report Date: June 20, 2012

Work Order: 12061401



Project Location: Hobbs, NM
Project Name: Jal #2
Project Number: 700376.045.01
SRS #: 2002-10273

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 301025 | MW-2 | water | 2012-06-13 | 10:30 | 2012-06-13 |
| 301026 | MW-8 | water | 2012-06-13 | 10:05 | 2012-06-13 |
| 301027 | MW-10 | water | 2012-06-12 | 13:17 | 2012-06-13 |
| 301028 | MW-11 | water | 2012-06-12 | 11:15 | 2012-06-13 |
| 301029 | MW-12 | water | 2012-06-12 | 10:57 | 2012-06-13 |
| 301030 | MW-13 | water | 2012-06-13 | 10:17 | 2012-06-13 |
| 301031 | MW-14 | water | 2012-06-12 | 10:45 | 2012-06-13 |
| 301032 | MW-15 | water | 2012-06-13 | 09:50 | 2012-06-13 |
| 301033 | MW-16 | water | 2012-06-13 | 09:35 | 2012-06-13 |
| 301034 | MW-17 | water | 2012-06-12 | 11:35 | 2012-06-13 |
| 301035 | MW-18 | water | 2012-06-12 | 13:05 | 2012-06-13 |
| 301036 | MW-19 | water | 2012-06-12 | 13:35 | 2012-06-13 |
| 301037 | MW-20 | water | 2012-06-12 | 10:05 | 2012-06-13 |
| 301038 | MW-21 | water | 2012-06-12 | 10:15 | 2012-06-13 |

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

This report consists of a total of 23 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



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

Report Contents

| | |
|---|-----------|
| Case Narrative | 5 |
| Analytical Report | 6 |
| Sample 301025 (MW-2) | 6 |
| Sample 301026 (MW-8) | 6 |
| Sample 301027 (MW-10) | 6 |
| Sample 301028 (MW-11) | 7 |
| Sample 301029 (MW-12) | 7 |
| Sample 301030 (MW-13) | 8 |
| Sample 301031 (MW-14) | 8 |
| Sample 301032 (MW-15) | 9 |
| Sample 301033 (MW-16) | 9 |
| Sample 301034 (MW-17) | 10 |
| Sample 301035 (MW-18) | 10 |
| Sample 301036 (MW-19) | 11 |
| Sample 301037 (MW-20) | 11 |
| Sample 301038 (MW-21) | 12 |
| Method Blanks | 13 |
| QC Batch 92148 - Method Blank (1) | 13 |
| QC Batch 92249 - Method Blank (1) | 13 |
| QC Batch 92253 - Method Blank (1) | 13 |
| Laboratory Control Spikes | 15 |
| QC Batch 92148 - LCS (1) | 15 |
| QC Batch 92249 - LCS (1) | 15 |
| QC Batch 92253 - LCS (1) | 16 |
| QC Batch 92148 - MS (1) | 16 |
| QC Batch 92249 - MS (1) | 17 |
| QC Batch 92253 - MS (1) | 18 |
| Calibration Standards | 19 |
| QC Batch 92148 - CCV (1) | 19 |
| QC Batch 92148 - CCV (2) | 19 |
| QC Batch 92148 - CCV (3) | 19 |
| QC Batch 92249 - CCV (1) | 19 |
| QC Batch 92249 - CCV (2) | 20 |
| QC Batch 92249 - CCV (3) | 20 |
| QC Batch 92253 - CCV (1) | 20 |
| QC Batch 92253 - CCV (2) | 21 |
| QC Batch 92253 - CCV (3) | 21 |
| Appendix | 22 |
| Report Definitions | 22 |
| Laboratory Certifications | 22 |
| Standard Flags | 22 |

| | |
|---------------------------|----|
| Result Comments | 22 |
| Attachments | 22 |

Case Narrative

Samples for project Jal #2 were received by TraceAnalysis, Inc. on 2012-06-13 and assigned to work order 12061401. Samples for work order 12061401 were received intact without headspace and at a temperature of 4.3 C.

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

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|------|---------|------------|---------------------|----------|---------------------|
| BTEX | S 8021B | 78173 | 2012-06-14 at 16:10 | 92148 | 2012-06-14 at 16:10 |
| BTEX | S 8021B | 78254 | 2012-06-18 at 08:29 | 92249 | 2012-06-18 at 08:29 |
| BTEX | S 8021B | 78256 | 2012-06-18 at 08:30 | 92253 | 2012-06-18 at 08:30 |

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 12061401 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 6 of 23
Hobbs, NM

Analytical Report

Sample: 301025 - MW-2

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 92249

Prep Batch: 78254

Analytical Method: S 8021B

Date Analyzed: 2012-06-18

Sample Preparation: 2012-06-18

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

| Parameter | Flag | Cert | RL | | Dilution | RL |
|--------------|------|------|----------------|-------|----------|---------|
| | | | Result | Units | | |
| Benzene | 1 | 1 | <0.00500 | mg/L | 5 | 0.00100 |
| Toluene | | 1 | <0.00500 | mg/L | 5 | 0.00100 |
| Ethylbenzene | U | 1 | <0.00500 | mg/L | 5 | 0.00100 |
| Xylene | | 1 | 0.00550 | mg/L | 5 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.512 | mg/L | 5 | 0.500 | 102 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.527 | mg/L | 5 | 0.500 | 105 | 70 - 130 |

Sample: 301026 - MW-8

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 92249

Prep Batch: 78254

Analytical Method: S 8021B

Date Analyzed: 2012-06-18

Sample Preparation: 2012-06-18

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

| Parameter | Flag | Cert | RL | | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| | | | Result | Units | | |
| Benzene | | 1 | 6.18 | mg/L | 100 | 0.00100 |
| Toluene | U | 1 | <0.100 | mg/L | 100 | 0.00100 |
| Ethylbenzene | | 1 | 0.380 | mg/L | 100 | 0.00100 |
| Xylene | U | 1 | <0.100 | mg/L | 100 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 10.1 | mg/L | 100 | 10.0 | 101 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 10.5 | mg/L | 100 | 10.0 | 105 | 70 - 130 |

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 7 of 23
Hobbs, NM

Sample: 301027 - MW-10

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 92249

Prep Batch: 78254

Analytical Method: S 8021B

Date Analyzed: 2012-06-18

Sample Preparation: 2012-06-18

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

| Parameter | Flag | Cert | Result | RL | | Dilution | RL | |
|------------------------------|------|------|----------|-------|----------|----------|----------|----------|
| | | | | Units | Dilution | | | |
| Benzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Toluene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Ethylbenzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Xylene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | |
| | | | | | | Amount | Recovery | |
| Trifluorotoluene (TFT) | | | 0.102 | mg/L | 1 | 0.100 | 102 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.105 | mg/L | 1 | 0.100 | 105 | 70 - 130 |

Sample: 301028 - MW-11

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 92249

Prep Batch: 78254

Analytical Method: S 8021B

Date Analyzed: 2012-06-18

Sample Preparation: 2012-06-18

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

| Parameter | Flag | Cert | Result | RL | | Dilution | RL | |
|------------------------------|------|------|----------|-------|----------|----------|----------|----------|
| | | | | Units | Dilution | | | |
| Benzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Toluene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Ethylbenzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Xylene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | |
| | | | | | | Amount | Recovery | |
| Trifluorotoluene (TFT) | | | 0.102 | mg/L | 1 | 0.100 | 102 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.105 | mg/L | 1 | 0.100 | 105 | 70 - 130 |

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 8 of 23
Hobbs, NM

Sample: 301029 - MW-12

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 92249

Prep Batch: 78254

Analytical Method: S 8021B

Date Analyzed: 2012-06-18

Sample Preparation: 2012-06-18

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------|------------------|-----------------|
| | | | | | | Amount | | |
| Trifluorotoluene (TFT) | | | 0.102 | mg/L | 1 | 0.100 | 102 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.104 | mg/L | 1 | 0.100 | 104 | 70 - 130 |

Sample: 301030 - MW-13

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 92249

Prep Batch: 78254

Analytical Method: S 8021B

Date Analyzed: 2012-06-18

Sample Preparation: 2012-06-18

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

| Parameter | Flag | Cert | RL | | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| | | | Result | Units | | |
| Benzene | | 1 | 33.6 | mg/L | 200 | 0.00100 |
| Toluene | u | 1 | <0.200 | mg/L | 200 | 0.00100 |
| Ethylbenzene | | 1 | <0.200 | mg/L | 200 | 0.00100 |
| Xylene | | 1 | 0.286 | mg/L | 200 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------|------------------|-----------------|
| | | | | | | Amount | | |
| Trifluorotoluene (TFT) | | | 19.4 | mg/L | 200 | 20.0 | 97 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 20.5 | mg/L | 200 | 20.0 | 102 | 70 - 130 |

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 9 of 23
Hobbs, NM

Sample: 301031 - MW-14

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2012-06-18 | Analyzed By: | ZLM |
| QC Batch: | 92249 | Sample Preparation: | 2012-06-18 | Prepared By: | ZLM |
| Prep Batch: | 78254 | | | | |

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.102 | mg/L | 1 | 0.100 | 102 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.103 | mg/L | 1 | 0.100 | 103 | 70 - 130 |

Sample: 301032 - MW-15

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2012-06-18 | Analyzed By: | ZLM |
| QC Batch: | 92253 | Sample Preparation: | 2012-06-18 | Prepared By: | ZLM |
| Prep Batch: | 78256 | | | | |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|-------------|-------|----------|---------|
| Benzene | | 1 | 3.14 | mg/L | 100 | 0.00100 |
| Toluene | u | 1 | <0.100 | mg/L | 100 | 0.00100 |
| Ethylbenzene | jb | 1 | <0.100 | mg/L | 100 | 0.00100 |
| Xylene | jb | 1 | <0.100 | mg/L | 100 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 8.13 | mg/L | 100 | 10.0 | 81 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 8.69 | mg/L | 100 | 10.0 | 87 | 70 - 130 |

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 10 of 23
Hobbs, NM

Sample: 301033 - MW-16

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 92253
Prep Batch: 78256

Analytical Method: S 8021B
Date Analyzed: 2012-06-18
Sample Preparation: 2012-06-18

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

| Parameter | Flag | Cert | RL | | Dilution | RL |
|--------------|------|------|---------------|-------|----------|---------|
| | | | Result | Units | | |
| Benzene | | 1 | 0.0162 | mg/L | 1 | 0.00100 |
| Toluene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | jb | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------|------------------|-----------------|
| | | | | | | Amount | | |
| Trifluorotoluene (TFT) | | | 0.0814 | mg/L | 1 | 0.100 | 81 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0869 | mg/L | 1 | 0.100 | 87 | 70 - 130 |

Sample: 301034 - MW-17

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 92253
Prep Batch: 78256

Analytical Method: S 8021B
Date Analyzed: 2012-06-18
Sample Preparation: 2012-06-18

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

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------|------------------|-----------------|
| | | | | | | Amount | | |
| Trifluorotoluene (TFT) | | | 0.0821 | mg/L | 1 | 0.100 | 82 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0864 | mg/L | 1 | 0.100 | 86 | 70 - 130 |

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 11 of 23
Hobbs, NM

Sample: 301035 - MW-18

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 92148

Prep Batch: 78173

Analytical Method: S 8021B

Date Analyzed: 2012-06-14

Sample Preparation: 2012-06-14

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|----------------|-------|----------|---------|
| Benzene | | 1 | 0.0696 | mg/L | 1 | 0.00100 |
| Toluene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | 1 | 0.00750 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.113 | mg/L | 1 | 0.100 | 113 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.104 | mg/L | 1 | 0.100 | 104 | 70 - 130 |

Sample: 301036 - MW-19

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 92148

Prep Batch: 78173

Analytical Method: S 8021B

Date Analyzed: 2012-06-14

Sample Preparation: 2012-06-14

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|----------------|-------|----------|---------|
| Benzene | | 1 | 0.0393 | mg/L | 1 | 0.00100 |
| Toluene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | 1 | 0.00170 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0965 | mg/L | 1 | 0.100 | 96 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.101 | mg/L | 1 | 0.100 | 101 | 70 - 130 |

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 12 of 23
Hobbs, NM

Sample: 301037 - MW-20

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2012-06-14 | Analyzed By: | MT |
| QC Batch: | 92148 | Sample Preparation: | 2012-06-14 | Prepared By: | MT |
| Prep Batch: | 78173 | | | | |

| Parameter | Flag | Cert | Result | RL | | Dilution | RL |
|--------------|------|------|----------|-------|--|----------|---------|
| | | | | Units | | | |
| Benzene | | 1 | 0.0121 | mg/L | | 1 | 0.00100 |
| Toluene | u | 1 | <0.00100 | mg/L | | 1 | 0.00100 |
| Ethylbenzene | u | 1 | <0.00100 | mg/L | | 1 | 0.00100 |
| Xylene | | 1 | <0.00100 | mg/L | | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------|------------------|-----------------|
| | | | | | | Amount | | |
| Trifluorotoluene (TFT) | | | 0.102 | mg/L | 1 | 0.100 | 102 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0975 | mg/L | 1 | 0.100 | 98 | 70 - 130 |

Sample: 301038 - MW-21

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2012-06-14 | Analyzed By: | MT |
| QC Batch: | 92148 | Sample Preparation: | 2012-06-14 | Prepared By: | MT |
| Prep Batch: | 78173 | | | | |

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------|------------------|-----------------|
| | | | | | | Amount | | |
| Trifluorotoluene (TFT) | | | 0.105 | mg/L | 1 | 0.100 | 105 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0956 | mg/L | 1 | 0.100 | 96 | 70 - 130 |

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 13 of 23
Hobbs, NM

Method Blanks

Method Blank (1) QC Batch: 92148

QC Batch: 92148 Date Analyzed: 2012-06-14
Prep Batch: 78173 QC Preparation: 2012-06-14
Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|------|------------|-------|-------|
| Benzene | 1 | | <0.000371 | mg/L | 0.001 |
| Toluene | 1 | | <0.000347 | mg/L | 0.001 |
| Ethylbenzene | 1 | | <0.000326 | mg/L | 0.001 |
| Xylene | 1 | | <0.000357 | mg/L | 0.001 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.102 | mg/L | 1 | 0.100 | 102 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.102 | mg/L | 1 | 0.100 | 102 | 70 - 130 |

Method Blank (1) QC Batch: 92249

QC Batch: 92249 Date Analyzed: 2012-06-18
Prep Batch: 78254 QC Preparation: 2012-06-18
Analyzed By: ZLM
Prepared By: ZLM

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|------|------------|-------|-------|
| Benzene | 1 | | <0.000371 | mg/L | 0.001 |
| Toluene | 1 | | <0.000347 | mg/L | 0.001 |
| Ethylbenzene | 1 | | <0.000326 | mg/L | 0.001 |
| Xylene | 1 | | <0.000357 | mg/L | 0.001 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.102 | mg/L | 1 | 0.100 | 102 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.107 | mg/L | 1 | 0.100 | 107 | 70 - 130 |

Method Blank (1) QC Batch: 92253

QC Batch: 92253 Date Analyzed: 2012-06-18
Prep Batch: 78256 QC Preparation: 2012-06-18
Analyzed By: ZLM
Prepared By: ZLM

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 14 of 23
Hobbs, NM

| Parameter | Flag | Cert | MDL Result | Units | RL |
|------------------------------|------|------|------------|-------|--|
| Benzene | | 1 | <0.000310 | mg/L | 0.001 |
| Toluene | | 1 | <0.000259 | mg/L | 0.001 |
| Ethylbenzene | | 1 | 0.000400 | mg/L | 0.001 |
| Xylene | | 1 | 0.00110 | mg/L | 0.001 |
| Surrogate | Flag | Cert | Result | Units | Spike Dilution Amount Percent Recovery Recovery Limits |
| Trifluorotoluene (TFT) | | | 0.0816 | ng/L | 1 0.100 82 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0875 | mg/L | 1 0.100 88 70 - 130 |

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 92148
Prep Batch: 78173

Date Analyzed: 2012-06-14
QC Preparation: 2012-06-14

Analyzed By: MT
Prepared By: MT

| Param | F | C | LCS | | Spike | | Matrix | | Rec. | |
|--------------|---|---|--------|-------|-------|--------|-----------|------|------------|--|
| | | | Result | Units | Dil. | Amount | Result | Rec. | Limit | |
| Benzene | | 1 | 0.102 | mg/L | 1 | 0.100 | <0.000371 | 102 | 78.6 - 120 | |
| Toluene | | 1 | 0.0992 | mg/L | 1 | 0.100 | <0.000347 | 99 | 79.6 - 120 | |
| Ethylbenzene | | 1 | 0.0986 | mg/L | 1 | 0.100 | <0.000326 | 99 | 80 - 120 | |
| Xylene | | 1 | 0.286 | mg/L | 1 | 0.300 | <0.000357 | 95 | 79.3 - 120 | |

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

| Param | F | C | LCSD | | Spike | | Matrix | | Rec. | | RPD |
|--------------|---|---|--------|-------|-------|--------|-----------|------|------------|-----|-------|
| | | | Result | Units | Dil. | Amount | Result | Rec. | Limit | RPD | Limit |
| Benzene | | 1 | 0.100 | mg/L | 1 | 0.100 | <0.000371 | 100 | 78.6 - 120 | 2 | 20 |
| Toluene | | 1 | 0.0992 | mg/L | 1 | 0.100 | <0.000347 | 99 | 79.6 - 120 | 0 | 20 |
| Ethylbenzene | | 1 | 0.0979 | mg/L | 1 | 0.100 | <0.000326 | 98 | 80 - 120 | 1 | 20 |
| Xylene | | 1 | 0.288 | mg/L | 1 | 0.300 | <0.000357 | 96 | 79.3 - 120 | 1 | 20 |

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

| Surrogate | F | C | LCS | | LCSD | | Spike | | LCS | | LCSD |
|------------------------------|---|---|--------|-------|--------|-------|-------|--------|------|------|----------|
| | | | Result | Units | Result | Units | Dil. | Amount | Rec. | Rec. | Limit |
| Trifluorotoluene (TFT) | | | 0.0967 | mg/L | 0.0965 | mg/L | 1 | 0.100 | 97 | 96 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0948 | mg/L | 0.0964 | mg/L | 1 | 0.100 | 95 | 96 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 92249
Prep Batch: 78254

Date Analyzed: 2012-06-18
QC Preparation: 2012-06-18

Analyzed By: ZLM
Prepared By: ZLM

| Param | F | C | LCS | | Spike | | Matrix | | Rec. | |
|--------------|---|---|--------|-------|-------|--------|-----------|------|------------|--|
| | | | Result | Units | Dil. | Amount | Result | Rec. | Limit | |
| Benzene | | 1 | 0.100 | mg/L | 1 | 0.100 | <0.000371 | 100 | 78.6 - 120 | |
| Toluene | | 1 | 0.0988 | mg/L | 1 | 0.100 | <0.000347 | 99 | 79.6 - 120 | |
| Ethylbenzene | | 1 | 0.0974 | mg/L | 1 | 0.100 | <0.000326 | 97 | 80 - 120 | |
| Xylene | | 1 | 0.280 | mg/L | 1 | 0.300 | <0.000357 | 93 | 79.3 - 120 | |

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

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 16 of 23
Hobbs, NM

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Limit | RPD | RPD Limit |
|--------------|---|---|----------------|-------|------|-----------------|------------------|--------------|------------|-----|--------------|
| Benzene | | 1 | 0.100 | mg/L | 1 | 0.100 | <0.000371 | 100 | 78.6 - 120 | 0 | 20 |
| Toluene | | 1 | 0.0991 | mg/L | 1 | 0.100 | <0.000347 | 99 | 79.6 - 120 | 0 | 20 |
| Ethylbenzene | | 1 | 0.0975 | mg/L | 1 | 0.100 | <0.000326 | 98 | 80 - 120 | 0 | 20 |
| Xylene | | 1 | 0.283 | mg/L | 1 | 0.300 | <0.000357 | 94 | 79.3 - 120 | 1 | 20 |

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

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 0.0978 | 0.0985 | mg/L | 1 | 0.100 | 98 | 98 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.0980 | 0.0987 | mg/L | 1 | 0.100 | 98 | 99 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 92253
Prep Batch: 78256

Date Analyzed: 2012-06-18
QC Preparation: 2012-06-18

Analyzed By: ZLM
Prepared By: ZLM

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|--------------|---------------|
| Benzene | | 1 | 0.0858 | mg/L | 1 | 0.100 | <0.000310 | 86 | 74.2 - 120 |
| Toluene | | 1 | 0.0882 | mg/L | 1 | 0.100 | <0.000259 | 88 | 75.8 - 120 |
| Ethylbenzene | | 1 | 0.0864 | mg/L | 1 | 0.100 | 0.0004 | 86 | 71.8 - 120 |
| Xylene | | 1 | 0.262 | mg/L | 1 | 0.300 | 0.0011 | 87 | 73.8 - 120 |

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

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | RPD | RPD Limit | |
|--------------|---|---|----------------|-------|------|-----------------|------------------|--------------|------------|--------------|----|
| Benzene | | 1 | 0.0872 | mg/L | 1 | 0.100 | <0.000310 | 87 | 74.2 - 120 | 2 | 20 |
| Toluene | | 1 | 0.0892 | mg/L | 1 | 0.100 | <0.000259 | 89 | 75.8 - 120 | 1 | 20 |
| Ethylbenzene | | 1 | 0.0883 | mg/L | 1 | 0.100 | 0.0004 | 88 | 71.8 - 120 | 2 | 20 |
| Xylene | | 1 | 0.268 | mg/L | 1 | 0.300 | 0.0011 | 89 | 73.8 - 120 | 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) | 0.0832 | 0.0829 | mg/L | 1 | 0.100 | 83 | 83 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.0895 | 0.0901 | mg/L | 1 | 0.100 | 90 | 90 | 70 - 130 |

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 17 of 23
Hobbs, NM

Matrix Spike (MS-1) Spiked Sample: 301083

QC Batch: 92148
Prep Batch: 78173

Date Analyzed: 2012-06-14
QC Preparation: 2012-06-14

Analyzed By: MT
Prepared By: MT

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | 1 | | 0.117 | mg/L | 1 | 0.100 | 0.0152 | 102 | 42.2 - 136 |
| Toluene | 1 | | 0.102 | mg/L | 1 | 0.100 | 0.0012 | 101 | 44.3 - 133 |
| Ethylbenzene | 1 | | 0.102 | mg/L | 1 | 0.100 | 0.0009 | 101 | 45.6 - 132 |
| Xylene | 1 | | 0.301 | mg/L | 1 | 0.300 | 0.0076 | 98 | 44.7 - 128 |

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

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | 1 | | 0.116 | mg/L | 1 | 0.100 | 0.0152 | 101 | 42.2 - 136 | 1 | 20 |
| Toluene | 1 | | 0.103 | mg/L | 1 | 0.100 | 0.0012 | 102 | 44.3 - 133 | 1 | 20 |
| Ethylbenzene | 1 | | 0.103 | mg/L | 1 | 0.100 | 0.0009 | 102 | 45.6 - 132 | 1 | 20 |
| Xylene | 1 | | 0.303 | mg/L | 1 | 0.300 | 0.0076 | 98 | 44.7 - 128 | 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 | Matrix Result | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------------|---------|----------|------------|
| Trifluorotoluene (TFT) | 0.0972 | 0.0959 | mg/L | 1 | 0.1 | 97 | 96 | 70 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | 0.0958 | 0.0959 | mg/L | 1 | 0.1 | 96 | 96 | 70 - 130 | |

Matrix Spike (MS-1) Spiked Sample: 300776

QC Batch: 92249
Prep Batch: 78254

Date Analyzed: 2012-06-18
QC Preparation: 2012-06-18

Analyzed By: ZLM
Prepared By: ZLM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | 1 | | 1.67 | mg/L | 10 | 1.00 | 0.6 | 107 | 42.2 - 136 |
| Toluene | 1 | | 1.18 | mg/L | 10 | 1.00 | 0.165 | 102 | 44.3 - 133 |
| Ethylbenzene | 1 | | 1.09 | mg/L | 10 | 1.00 | 0.104 | 99 | 45.6 - 132 |
| Xylene | 1 | | 2.88 | mg/L | 10 | 3.00 | 0.0589 | 94 | 44.7 - 128 |

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

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | 1 | | 1.66 | mg/L | 10 | 1.00 | 0.6 | 106 | 42.2 - 136 | 1 | 20 |
| Toluene | 1 | | 1.17 | mg/L | 10 | 1.00 | 0.165 | 100 | 44.3 - 133 | 1 | 20 |

continued . . .

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 18 of 23
Hobbs, NM

matrix spikes continued ...

| Param | F | C | MSD | | Spike Amount | Matrix Result | Rec. Rec. | RPD | RPD Limit |
|--------------|---|------|--------|-------|--------------|---------------|-----------|------------|-----------|
| | | | Result | Units | | | | | |
| Ethylbenzene | 1 | 1.09 | mg/L | 10 | 1.00 | 0.104 | 99 | 45.6 - 132 | 0 20 |
| Xylene | 1 | 2.87 | mg/L | 10 | 3.00 | 0.0589 | 94 | 44.7 - 128 | 0 20 |

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

| Surrogate | MS | | MSD | | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--------|--------|-------|------|--------------|---------|----------|------------|
| | Result | Result | Units | Dil. | | | | |
| Trifluorotoluene (TFT) | 0.977 | 0.960 | mg/L | 10 | 1 | 98 | 96 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.996 | 0.988 | mg/L | 10 | 1 | 100 | 99 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 301180

QC Batch: 92253
Prep Batch: 78256

Date Analyzed: 2012-06-18
QC Preparation: 2012-06-18

Analyzed By: ZLM
Prepared By: ZLM

| Param | F | C | MS | | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit |
|--------------|---|--------|--------|-------|--------------|---------------|-----------|------------|
| | | | Result | Units | | | | |
| Benzene | 1 | 0.0865 | mg/L | 1 | 0.100 | <0.000310 | 86 | 47 - 131 |
| Toluene | 1 | 0.0891 | mg/L | 1 | 0.100 | <0.000259 | 89 | 52.2 - 128 |
| Ethylbenzene | 1 | 0.0852 | mg/L | 1 | 0.100 | <0.000291 | 85 | 26.5 - 154 |
| Xylene | 1 | 0.252 | mg/L | 1 | 0.300 | 0.0007 | 84 | 50.1 - 130 |

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

| Param | F | C | MSD | | Spike Amount | Matrix Result | Rec. Rec. | RPD | RPD Limit |
|--------------|---|--------|--------|-------|--------------|---------------|-----------|------------|-----------|
| | | | Result | Units | | | | | |
| Benzene | 1 | 0.0841 | mg/L | 1 | 0.100 | <0.000310 | 84 | 47 - 131 | 3 20 |
| Toluene | 1 | 0.0853 | mg/L | 1 | 0.100 | <0.000259 | 85 | 52.2 - 128 | 4 20 |
| Ethylbenzene | 1 | 0.0832 | mg/L | 1 | 0.100 | <0.000291 | 83 | 26.5 - 154 | 2 20 |
| Xylene | 1 | 0.247 | mg/L | 1 | 0.300 | 0.0007 | 82 | 50.1 - 130 | 2 20 |

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

| Surrogate | MS | | MSD | | Spike Amount | Matrix Result | Rec. Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--------|--------|-------|------|--------------|---------------|-----------|----------|------------|
| | Result | Result | Units | Dil. | | | | | |
| Trifluorotoluene (TFT) | 0.0820 | 0.0810 | mg/L | 1 | 0.1 | 82 | 81 | 70 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | 0.0883 | 0.0881 | mg/L | 1 | 0.1 | 88 | 88 | 70 - 130 | |

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 19 of 23
Hobbs, NM

Calibration Standards

Standard (CCV-1)

QC Batch: 92148

Date Analyzed: 2012-06-14

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | 1 | | mg/L | 0.100 | 0.0985 | 98 | 80 - 120 | 2012-06-14 |
| Toluene | 1 | | mg/L | 0.100 | 0.0970 | 97 | 80 - 120 | 2012-06-14 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.0972 | 97 | 80 - 120 | 2012-06-14 |
| Xylene | 1 | | mg/L | 0.300 | 0.283 | 94 | 80 - 120 | 2012-06-14 |

Standard (CCV-2)

QC Batch: 92148

Date Analyzed: 2012-06-14

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | 1 | | mg/L | 0.100 | 0.0979 | 98 | 80 - 120 | 2012-06-14 |
| Toluene | 1 | | mg/L | 0.100 | 0.0971 | 97 | 80 - 120 | 2012-06-14 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.0965 | 96 | 80 - 120 | 2012-06-14 |
| Xylene | 1 | | mg/L | 0.300 | 0.280 | 93 | 80 - 120 | 2012-06-14 |

Standard (CCV-3)

QC Batch: 92148

Date Analyzed: 2012-06-14

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | 1 | | mg/L | 0.100 | 0.101 | 101 | 80 - 120 | 2012-06-14 |
| Toluene | 1 | | mg/L | 0.100 | 0.0986 | 99 | 80 - 120 | 2012-06-14 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.0980 | 98 | 80 - 120 | 2012-06-14 |
| Xylene | 1 | | mg/L | 0.300 | 0.284 | 95 | 80 - 120 | 2012-06-14 |

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 20 of 23
Hobbs, NM

Standard (CCV-1)

QC Batch: 92249

Date Analyzed: 2012-06-18

Analyzed By: ZLM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | 1 | | mg/L | 0.100 | 0.0986 | 99 | 80 - 120 | 2012-06-18 |
| Toluene | 1 | | mg/L | 0.100 | 0.0984 | 98 | 80 - 120 | 2012-06-18 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.0969 | 97 | 80 - 120 | 2012-06-18 |
| Xylene | 1 | | mg/L | 0.300 | 0.281 | 94 | 80 - 120 | 2012-06-18 |

Standard (CCV-2)

QC Batch: 92249

Date Analyzed: 2012-06-18

Analyzed By: ZLM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | 1 | | mg/L | 0.100 | 0.101 | 101 | 80 - 120 | 2012-06-18 |
| Toluene | 1 | | mg/L | 0.100 | 0.0994 | 99 | 80 - 120 | 2012-06-18 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.0973 | 97 | 80 - 120 | 2012-06-18 |
| Xylene | 1 | | mg/L | 0.300 | 0.282 | 94 | 80 - 120 | 2012-06-18 |

Standard (CCV-3)

QC Batch: 92249

Date Analyzed: 2012-06-18

Analyzed By: ZLM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | 1 | | mg/L | 0.100 | 0.0997 | 100 | 80 - 120 | 2012-06-18 |
| Toluene | 1 | | mg/L | 0.100 | 0.0977 | 98 | 80 - 120 | 2012-06-18 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.0971 | 97 | 80 - 120 | 2012-06-18 |
| Xylene | 1 | | mg/L | 0.300 | 0.275 | 92 | 80 - 120 | 2012-06-18 |

Standard (CCV-1)

QC Batch: 92253

Date Analyzed: 2012-06-18

Analyzed By: ZLM

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 21 of 23
Hobbs, NM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.0870 | 87 | 80 - 120 | 2012-06-18 |
| Toluene | | 1 | mg/L | 0.100 | 0.0900 | 90 | 80 - 120 | 2012-06-18 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0878 | 88 | 80 - 120 | 2012-06-18 |
| Xylene | | 1 | mg/L | 0.300 | 0.267 | 89 | 80 - 120 | 2012-06-18 |

Standard (CCV-2)

QC Batch: 92253

Date Analyzed: 2012-06-18

Analyzed By: ZLM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.0843 | 84 | 80 - 120 | 2012-06-18 |
| Toluene | | 1 | mg/L | 0.100 | 0.0862 | 86 | 80 - 120 | 2012-06-18 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0853 | 85 | 80 - 120 | 2012-06-18 |
| Xylene | | 1 | mg/L | 0.300 | 0.260 | 87 | 80 - 120 | 2012-06-18 |

Standard (CCV-3)

QC Batch: 92253

Date Analyzed: 2012-06-18

Analyzed By: ZLM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.0847 | 85 | 80 - 120 | 2012-06-18 |
| Toluene | | 1 | mg/L | 0.100 | 0.0866 | 87 | 80 - 120 | 2012-06-18 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0847 | 85 | 80 - 120 | 2012-06-18 |
| Xylene | | 1 | mg/L | 0.300 | 0.258 | 86 | 80 - 120 | 2012-06-18 |

Appendix

Report Definitions

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

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | NELAP | T104704219-12-8 | Lubbock |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Result Comments

1 Sample dilution due to soil.

Attachments

Report Date: June 20, 2012
700376.045.01

Work Order: 12061401
Jal #2

Page Number: 23 of 23
Hobbs, NM

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

TraceAnalysis, Inc.

email: lab@traceanalysis.com

10/10

Phone #

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

Company Name: Talon
Address: 2901 Lake Hwy 349 Minocqua Street, City, Zip
Contact Person: Chris Spore Phone #:
Fax #:
E-mail: CSpore@talonpc.com

~~2002-10-1~~
different from above)

Project Name: TG 1 ~~2~~

Sample Signature:

Project Location (including state): Hopkins, MN

TraceAnalysis, Inc.

email: lab@traceanalysis.com
 Street, City, Zip: Hwy 349 Midland
 Contact Person: Chris Spire

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

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

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

BioAquatic Testing Carrollton, Texas 75006 Tel (972) 242-7750

ANALYSIS REQUEST
(Circle or Specify Method No.)

Phone #:

Fax #:

E-mail:

Project Name: *Jal #2*Sampler Signature: *Chris Spire*Invoice to: *2002-10273*Project #: *700376045191*Project Location (including state): *Texas NM*

Date:

Time:

Received by:

Company:

Summary Report

Chris Spore
 Talon LPE-Midland
 2901 State Highway 349
 Midland, TX 79706

Report Date: October 4, 2012
 Work Order: 12092825

Project Location: Hobbs, NM
 Project Name: Jal #2
 Project Number: 700376.045.01
 SRS #: 2002-10273

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 310502 | MW-8 | water | 2012-09-27 | 13:45 | 2012-09-28 |
| 310503 | MW-10 | water | 2012-09-26 | 11:20 | 2012-09-28 |
| 310504 | MW-11 | water | 2012-09-26 | 11:30 | 2012-09-28 |
| 310505 | MW-12 | water | 2012-09-26 | 11:40 | 2012-09-28 |
| 310506 | MW-13 | water | 2012-09-27 | 14:00 | 2012-09-28 |
| 310507 | MW-14 | water | 2012-09-27 | 10:05 | 2012-09-28 |
| 310508 | MW-15 | water | 2012-09-27 | 11:40 | 2012-09-28 |
| 310509 | MW-16 | water | 2012-09-27 | 11:30 | 2012-09-28 |
| 310510 | MW-17 | water | 2012-09-27 | 10:15 | 2012-09-28 |
| 310511 | MW-18 | water | 2012-09-27 | 10:30 | 2012-09-28 |
| 310512 | MW-19 | water | 2012-09-27 | 10:45 | 2012-09-28 |
| 310513 | MW-20 | water | 2012-09-26 | 13:15 | 2012-09-28 |
| 310514 | MW-21 | water | 2012-09-26 | 13:00 | 2012-09-28 |

| Sample - Field Code | BTEX | | | | MTBE (mg/L) |
|---------------------|-------------------|-------------------|------------------------|------------------|----------------|
| | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylene (mg/L) | |
| 310502 - MW-8 | 3.50 | <0.0500 | 0.401 | <0.0500 | <0.0500 |
| 310503 - MW-10 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| 310504 - MW-11 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| 310505 - MW-12 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| 310506 - MW-13 | 17.1 | <0.0500 | 0.102 | 0.187 | <0.0500 |
| 310507 - MW-14 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| 310508 - MW-15 | 7.89 | <0.0500 | 0.141 | 0.113 | <0.0500 |
| 310509 - MW-16 | 0.0114 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| 310510 - MW-17 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| 310511 - MW-18 | 0.308 | <0.00100 | <0.00100 | 0.0226 | <0.00100 |
| 310512 - MW-19 | 0.0501 | <0.00100 | <0.00100 | 0.00260 | <0.00100 |

continued ...

... *continued*

| Sample - Field Code | BTEX | | | | MTBE MTBE (mg/L) |
|---------------------|-------------------|-------------------|------------------------|------------------|------------------------|
| | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylene (mg/L) | |
| 310513 - MW-20 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| 310514 - MW-21 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 806-794-1296 FAX 806-794-1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAqueous) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Chris Spore
Talon LPE-Midland
2901 State Highway 349
Midland, TX, 79706

Report Date: October 4, 2012

Work Order: 12092825

Project Location: Hobbs, NM
Project Name: Jal #2
Project Number: 700376.045.01
SRS #: 2002-10273

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 310502 | MW-8 | water | 2012-09-27 | 13:45 | 2012-09-28 |
| 310503 | MW-10 | water | 2012-09-26 | 11:20 | 2012-09-28 |
| 310504 | MW-11 | water | 2012-09-26 | 11:30 | 2012-09-28 |
| 310505 | MW-12 | water | 2012-09-26 | 11:40 | 2012-09-28 |
| 310506 | MW-13 | water | 2012-09-27 | 14:00 | 2012-09-28 |
| 310507 | MW-14 | water | 2012-09-27 | 10:05 | 2012-09-28 |
| 310508 | MW-15 | water | 2012-09-27 | 11:40 | 2012-09-28 |
| 310509 | MW-16 | water | 2012-09-27 | 11:30 | 2012-09-28 |
| 310510 | MW-17 | water | 2012-09-27 | 10:15 | 2012-09-28 |
| 310511 | MW-18 | water | 2012-09-27 | 10:30 | 2012-09-28 |
| 310512 | MW-19 | water | 2012-09-27 | 10:45 | 2012-09-28 |
| 310513 | MW-20 | water | 2012-09-26 | 13:15 | 2012-09-28 |
| 310514 | MW-21 | water | 2012-09-26 | 13:00 | 2012-09-28 |

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

This report consists of a total of 22 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



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

Report Contents

| | |
|---|-----------|
| Case Narrative | 4 |
| Analytical Report | 5 |
| Sample 310502 (MW-8) | 5 |
| Sample 310503 (MW-10) | 5 |
| Sample 310504 (MW-11) | 6 |
| Sample 310505 (MW-12) | 6 |
| Sample 310506 (MW-13) | 6 |
| Sample 310507 (MW-14) | 7 |
| Sample 310508 (MW-15) | 7 |
| Sample 310509 (MW-16) | 8 |
| Sample 310510 (MW-17) | 8 |
| Sample 310511 (MW-18) | 9 |
| Sample 310512 (MW-19) | 9 |
| Sample 310513 (MW-20) | 10 |
| Sample 310514 (MW-21) | 10 |
| Method Blanks | 12 |
| QC Batch 95349 - Method Blank (1) | 12 |
| QC Batch 95350 - Method Blank (1) | 12 |
| QC Batch 95425 - Method Blank (1) | 12 |
| Laboratory Control Spikes | 14 |
| QC Batch 95349 - LCS (1) | 14 |
| QC Batch 95350 - LCS (1) | 14 |
| QC Batch 95425 - LCS (1) | 15 |
| QC Batch 95349 - MS (1) | 16 |
| QC Batch 95350 - MS (1) | 16 |
| QC Batch 95425 - MS (1) | 17 |
| Calibration Standards | 19 |
| QC Batch 95349 - CCV (1) | 19 |
| QC Batch 95349 - CCV (2) | 19 |
| QC Batch 95349 - CCV (3) | 19 |
| QC Batch 95350 - CCV (1) | 20 |
| QC Batch 95350 - CCV (2) | 20 |
| QC Batch 95350 - CCV (3) | 20 |
| QC Batch 95425 - CCV (1) | 20 |
| QC Batch 95425 - CCV (2) | 21 |
| QC Batch 95425 - CCV (3) | 21 |
| Appendix | 22 |
| Report Definitions | 22 |
| Laboratory Certifications | 22 |
| Standard Flags | 22 |
| Attachments | 22 |

Case Narrative

Samples for project Jal #2 were received by TraceAnalysis, Inc. on 2012-09-28 and assigned to work order 12092825. Samples for work order 12092825 were received intact without headspace and at a temperature of 5.3 C.

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

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|------|---------|------------|---------------------|----------|---------------------|
| BTEX | S 8021B | 80800 | 2012-10-01 at 13:50 | 95349 | 2012-10-01 at 13:50 |
| BTEX | S 8021B | 80801 | 2012-10-01 at 13:50 | 95350 | 2012-10-01 at 13:50 |
| BTEX | S 8021B | 80859 | 2012-10-03 at 14:59 | 95425 | 2012-10-03 at 14:59 |
| MTBE | S 8021B | 80800 | 2012-10-01 at 13:50 | 95349 | 2012-10-01 at 13:50 |
| MTBE | S 8021B | 80801 | 2012-10-01 at 13:50 | 95350 | 2012-10-01 at 13:50 |
| MTBE | S 8021B | 80859 | 2012-10-03 at 14:59 | 95425 | 2012-10-03 at 14:59 |

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 12092825 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 5 of 22
Hobbs, NM

Analytical Report

Sample: 310502 - MW-8

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 95349

Prep Batch: 80800

Analytical Method: S 8021B

Date Analyzed: 2012-10-01

Sample Preparation: 2012-10-01

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|---------|-------|----------|---------|
| MTBE | U | 1 | <0.0500 | mg/L | 50 | 0.00100 |
| Benzene | | 1 | 3.50 | mg/L | 50 | 0.00100 |
| Toluene | U | 1 | <0.0500 | mg/L | 50 | 0.00100 |
| Ethylbenzene | | 1 | 0.401 | mg/L | 50 | 0.00100 |
| Xylene | U | 1 | <0.0500 | mg/L | 50 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 4.57 | mg/L | 50 | 5.00 | 91 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 5.10 | mg/L | 50 | 5.00 | 102 | 70 - 130 |

Sample: 310503 - MW-10

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 95349

Prep Batch: 80800

Analytical Method: S 8021B

Date Analyzed: 2012-10-01

Sample Preparation: 2012-10-01

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0919 | mg/L | 1 | 0.100 | 92 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.102 | mg/L | 1 | 0.100 | 102 | 70 - 130 |

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 6 of 22
Hobbs, NM

Sample: 310504 - MW-11

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 95349

Prep Batch: 80800

Analytical Method: S 8021B

Date Analyzed: 2012-10-01

Sample Preparation: 2012-10-01

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|----------|
| | | | | | | Amount | Recovery | Limits | |
| Trifluorotoluene (TFT) | | | 0.0920 | ng/L | 1 | 0.100 | 92 | 70 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | | | 0.103 | ng/L | 1 | 0.100 | 103 | 70 - 130 | |

Sample: 310505 - MW-12

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 95349

Prep Batch: 80800

Analytical Method: S 8021B

Date Analyzed: 2012-10-01

Sample Preparation: 2012-10-01

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|----------|
| | | | | | | Amount | Recovery | Limits | |
| Trifluorotoluene (TFT) | | | 0.0925 | ng/L | 1 | 0.100 | 92 | 70 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | | | 0.101 | ng/L | 1 | 0.100 | 101 | 70 - 130 | |

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 7 of 22
Hobbs, NM

Sample: 310506 - MW-13

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 95350

Prep Batch: 80801

Analytical Method: S 8021B

Date Analyzed: 2012-10-01

Sample Preparation: 2012-10-01

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|---------|-------|----------|---------|
| MTBE | u | 1 | <0.0500 | mg/L | 50 | 0.00100 |
| Benzene | | 1 | 17.1 | mg/L | 50 | 0.00100 |
| Toluene | u | 1 | <0.0500 | mg/L | 50 | 0.00100 |
| Ethylbenzene | | 1 | 0.102 | mg/L | 50 | 0.00100 |
| Xylene | | 1 | 0.187 | mg/L | 50 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 4.30 | mg/L | 50 | 5.00 | 86 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 4.95 | mg/L | 50 | 5.00 | 99 | 70 - 130 |

Sample: 310507 - MW-14

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 95350

Prep Batch: 80801

Analytical Method: S 8021B

Date Analyzed: 2012-10-01

Sample Preparation: 2012-10-01

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0891 | mg/L | 1 | 0.100 | 89 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0996 | mg/L | 1 | 0.100 | 100 | 70 - 130 |

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 8 of 22
Hobbs, NM

Sample: 310508 - MW-15

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 95350

Prep Batch: 80801

Analytical Method: S 8021B

Date Analyzed: 2012-10-01

Sample Preparation: 2012-10-01

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|---------|-------|----------|---------|
| MTBE | u | 1 | <0.0500 | mg/L | 50 | 0.00100 |
| Benzene | | 1 | 7.89 | mg/L | 50 | 0.00100 |
| Toluene | u | 1 | <0.0500 | mg/L | 50 | 0.00100 |
| Ethylbenzene | | 1 | 0.141 | mg/L | 50 | 0.00100 |
| Xylene | | 1 | 0.113 | mg/L | 50 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 4.53 | mg/L | 50 | 5.00 | 91 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 4.97 | mg/L | 50 | 5.00 | 99 | 70 - 130 |

Sample: 310509 - MW-16

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 95350

Prep Batch: 80801

Analytical Method: S 8021B

Date Analyzed: 2012-10-01

Sample Preparation: 2012-10-01

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|----------|-------|----------|---------|
| MTBE | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Benzene | | 1 | 0.0114 | mg/L | 1 | 0.00100 |
| Toluene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0950 | mg/L | 1 | 0.100 | 95 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0991 | mg/L | 1 | 0.100 | 99 | 70 - 130 |

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 9 of 22
Hobbs, NM

Sample: 310510 - MW-17

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 95350

Prep Batch: 80801

Analytical Method: S 8021B

Date Analyzed: 2012-10-01

Sample Preparation: 2012-10-01

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0901 | mg/L | 1 | 0.100 | 90 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.100 | mg/L | 1 | 0.100 | 100 | 70 - 130 |

Sample: 310511 - MW-18

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 95350

Prep Batch: 80801

Analytical Method: S 8021B

Date Analyzed: 2012-10-01

Sample Preparation: 2012-10-01

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|---------------|-------|----------|---------|
| MTBE | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Benzene | | 1 | 0.308 | mg/L | 1 | 0.00100 |
| Toluene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | 1 | 0.0226 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0833 | mg/L | 1 | 0.100 | 83 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.100 | mg/L | 1 | 0.100 | 100 | 70 - 130 |

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 10 of 22
Hobbs, NM

Sample: 310512 - MW-19

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 95425

Prep Batch: 80859

Analytical Method: S 8021B

Date Analyzed: 2012-10-03

Sample Preparation: 2012-10-03

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

| Parameter | Flag | Cert | RL | | Dilution | RL |
|--------------|------|------|----------------|-------|----------|---------|
| | | | Result | Units | | |
| MTBE | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Benzene | | 1 | 0.0501 | mg/L | 1 | 0.00100 |
| Toluene | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | B | 1 | 0.00260 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.0889 | mg/L | 1 | 0.100 | 89 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0971 | mg/L | 1 | 0.100 | 97 | 70 - 130 |

Sample: 310513 - MW-20

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 95350

Prep Batch: 80801

Analytical Method: S 8021B

Date Analyzed: 2012-10-01

Sample Preparation: 2012-10-01

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.0910 | mg/L | 1 | 0.100 | 91 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.101 | mg/L | 1 | 0.100 | 101 | 70 - 130 |

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 11 of 22
Hobbs, NM

Sample: 310514 - MW-21

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 95350

Prep Batch: 80801

Analytical Method: S 8021B

Date Analyzed: 2012-10-01

Sample Preparation: 2012-10-01

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0923 | mg/L | 1 | 0.100 | 92 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.102 | mg/L | 1 | 0.100 | 102 | 70 - 130 |

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 12 of 22
Hobbs, NM

Method Blanks

Method Blank (1) QC Batch: 95349

QC Batch: 95349
Prep Batch: 80800

Date Analyzed: 2012-10-01
QC Preparation: 2012-10-01

Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|------|------------|-------|-------|
| MTBE | | 1 | <0.000954 | mg/L | 0.001 |
| Benzene | | 1 | <0.000371 | mg/L | 0.001 |
| Toluene | | 1 | <0.000347 | mg/L | 0.001 |
| Ethylbenzene | | 1 | <0.000326 | mg/L | 0.001 |
| Xylene | | 1 | <0.000357 | mg/L | 0.001 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0923 | mg/L | 1 | 0.100 | 92 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.101 | mg/L | 1 | 0.100 | 101 | 70 - 130 |

Method Blank (1) QC Batch: 95350

QC Batch: 95350
Prep Batch: 80801

Date Analyzed: 2012-10-01
QC Preparation: 2012-10-01

Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|------|------------|-------|-------|
| MTBE | | 1 | <0.000954 | mg/L | 0.001 |
| Benzene | | 1 | <0.000371 | mg/L | 0.001 |
| Toluene | | 1 | <0.000347 | mg/L | 0.001 |
| Ethylbenzene | | 1 | <0.000326 | mg/L | 0.001 |
| Xylene | | 1 | <0.000357 | mg/L | 0.001 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0909 | mg/L | 1 | 0.100 | 91 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.100 | mg/L | 1 | 0.100 | 100 | 70 - 130 |

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 13 of 22
Hobbs, NM

Method Blank (1) QC Batch: 95425

QC Batch: 95425
Prep Batch: 80859

Date Analyzed: 2012-10-03
QC Preparation: 2012-10-03

Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|------|------------|-------|-------|
| MTBE | | 1 | <0.000331 | mg/L | 0.001 |
| Benzene | | 1 | <0.000310 | mg/L | 0.001 |
| Toluene | | 1 | <0.000259 | mg/L | 0.001 |
| Ethylbenzene | | 1 | <0.000291 | mg/L | 0.001 |
| Xylene | | 1 | 0.000400 | mg/L | 0.001 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0943 | mg/L | 1 | 0.100 | 94 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0969 | mg/L | 1 | 0.100 | 97 | 70 - 130 |

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 14 of 22
Hobbs, NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 95349
Prep Batch: 80800

Date Analyzed: 2012-10-01
QC Preparation: 2012-10-01

Analyzed By: MT
Prepared By: MT

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| MTBE | | 1 | 0.0917 | mg/L | 1 | 0.100 | <0.000954 | 92 | 69.9 - 120 |
| Benzene | | 1 | 0.0931 | mg/L | 1 | 0.100 | <0.000371 | 93 | 78.6 - 120 |
| Toluene | | 1 | 0.0974 | mg/L | 1 | 0.100 | <0.000347 | 97 | 79.6 - 120 |
| Ethylbenzene | | 1 | 0.100 | mg/L | 1 | 0.100 | <0.000326 | 100 | 80 - 120 |
| Xylene | | 1 | 0.298 | mg/L | 1 | 0.300 | <0.000357 | 99 | 79.3 - 120 |

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

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| MTBE | | 1 | 0.0895 | mg/L | 1 | 0.100 | <0.000954 | 90 | 69.9 - 120 | 2 | 20 |
| Benzene | | 1 | 0.0916 | mg/L | 1 | 0.100 | <0.000371 | 92 | 78.6 - 120 | 2 | 20 |
| Toluene | | 1 | 0.0951 | mg/L | 1 | 0.100 | <0.000347 | 95 | 79.6 - 120 | 2 | 20 |
| Ethylbenzene | | 1 | 0.0991 | mg/L | 1 | 0.100 | <0.000326 | 99 | 80 - 120 | 1 | 20 |
| Xylene | | 1 | 0.292 | mg/L | 1 | 0.300 | <0.000357 | 97 | 79.3 - 120 | 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) | | 0.0888 | 0.0884 | mg/L | 1 | 0.100 | 89 | 88 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0941 | 0.0928 | mg/L | 1 | 0.100 | 94 | 93 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 95350
Prep Batch: 80801

Date Analyzed: 2012-10-01
QC Preparation: 2012-10-01

Analyzed By: MT
Prepared By: MT

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| MTBE | | 1 | 0.0911 | mg/L | 1 | 0.100 | <0.000954 | 91 | 69.9 - 120 |
| Benzene | | 1 | 0.0908 | mg/L | 1 | 0.100 | <0.000371 | 91 | 78.6 - 120 |
| Toluene | | 1 | 0.0985 | mg/L | 1 | 0.100 | <0.000347 | 98 | 79.6 - 120 |

continued ...

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 15 of 22
Hobbs, NM

control spikes continued ...

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Ethylbenzene | 1 | | 0.103 | mg/L | 1 | 0.100 | <0.000326 | 103 | 80 - 120 |
| Xylene | 1 | | 0.304 | mg/L | 1 | 0.300 | <0.000357 | 101 | 79.3 - 120 |

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

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| MTBE | 1 | | 0.0900 | mg/L | 1 | 0.100 | <0.000954 | 90 | 69.9 - 120 | 1 | 20 |
| Benzene | 1 | | 0.0904 | mg/L | 1 | 0.100 | <0.000371 | 90 | 78.6 - 120 | 0 | 20 |
| Toluene | 1 | | 0.0966 | mg/L | 1 | 0.100 | <0.000347 | 97 | 79.6 - 120 | 2 | 20 |
| Ethylbenzene | 1 | | 0.100 | mg/L | 1 | 0.100 | <0.000326 | 100 | 80 - 120 | 3 | 20 |
| Xylene | 1 | | 0.296 | mg/L | 1 | 0.300 | <0.000357 | 99 | 79.3 - 120 | 3 | 20 |

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

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT) | 0.0891 | 0.0869 | mg/L | 1 | 0.100 | 89 | 87 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.0955 | 0.0930 | mg/L | 1 | 0.100 | 96 | 93 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 95425
Prep Batch: 80859

Date Analyzed: 2012-10-03
QC Preparation: 2012-10-03

Analyzed By: MT
Prepared By: MT

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|
| MTBE | 1 | | 0.0969 | mg/L | 1 | 0.100 | <0.000331 | 97 | 70.9 - 120 |
| Benzene | 1 | | 0.0898 | mg/L | 1 | 0.100 | <0.000310 | 90 | 74.2 - 120 |
| Toluene | 1 | | 0.0954 | mg/L | 1 | 0.100 | <0.000259 | 95 | 75.8 - 120 |
| Ethylbenzene | 1 | | 0.0955 | mg/L | 1 | 0.100 | <0.000291 | 96 | 71.8 - 120 |
| Xylene | 1 | | 0.296 | mg/L | 1 | 0.300 | 0.0004 | 99 | 73.8 - 120 |

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

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| MTBE | 1 | | 0.0978 | mg/L | 1 | 0.100 | <0.000331 | 98 | 70.9 - 120 | 1 | 20 |
| Benzene | 1 | | 0.0896 | mg/L | 1 | 0.100 | <0.000310 | 90 | 74.2 - 120 | 0 | 20 |
| Toluene | 1 | | 0.0947 | mg/L | 1 | 0.100 | <0.000259 | 95 | 75.8 - 120 | 1 | 20 |
| Ethylbenzene | 1 | | 0.0946 | mg/L | 1 | 0.100 | <0.000291 | 95 | 71.8 - 120 | 1 | 20 |
| Xylene | 1 | | 0.293 | mg/L | 1 | 0.300 | 0.0004 | 98 | 73.8 - 120 | 1 | 20 |

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

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 16 of 22
Hobbs, NM

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT) | 0.0940 | 0.0918 | mg/L | 1 | 0.100 | 94 | 92 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.100 | 0.0965 | mg/L | 1 | 0.100 | 100 | 96 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 310545

QC Batch: 95349
Prep Batch: 80800

Date Analyzed: 2012-10-01
QC Preparation: 2012-10-01

Analyzed By: MT
Prepared By: MT

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| MTBE | | 1 | 0.0930 | mg/L | 1 | 0.100 | <0.000954 | 93 | 43.8 - 128 |
| Benzene | | 1 | 0.0931 | mg/L | 1 | 0.100 | <0.000371 | 93 | 42.2 - 136 |
| Toluene | | 1 | 0.100 | mg/L | 1 | 0.100 | <0.000347 | 100 | 44.3 - 133 |
| Ethylbenzene | | 1 | 0.103 | mg/L | 1 | 0.100 | <0.000326 | 103 | 45.6 - 132 |
| Xylene | | 1 | 0.304 | mg/L | 1 | 0.300 | <0.000357 | 101 | 44.7 - 128 |

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

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| MTBE | | 1 | 0.0893 | mg/L | 1 | 0.100 | <0.000954 | 89 | 43.8 - 128 | 4 | 20 |
| Benzene | | 1 | 0.0891 | mg/L | 1 | 0.100 | <0.000371 | 89 | 42.2 - 136 | 4 | 20 |
| Toluene | | 1 | 0.0958 | mg/L | 1 | 0.100 | <0.000347 | 96 | 44.3 - 133 | 4 | 20 |
| Ethylbenzene | | 1 | 0.0992 | mg/L | 1 | 0.100 | <0.000326 | 99 | 45.6 - 132 | 4 | 20 |
| Xylene | | 1 | 0.293 | mg/L | 1 | 0.300 | <0.000357 | 98 | 44.7 - 128 | 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) | | 0.0921 | 0.0893 | mg/L | 1 | 0.1 | 92 | 89 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0978 | 0.0958 | mg/L | 1 | 0.1 | 98 | 96 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 310550

QC Batch: 95350
Prep Batch: 80801

Date Analyzed: 2012-10-01
QC Preparation: 2012-10-01

Analyzed By: MT
Prepared By: MT

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| MTBE | | 1 | 0.0931 | mg/L | 1 | 0.100 | <0.000954 | 93 | 43.8 - 128 |

continued ...

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 17 of 22
Hobbs, NM

matrix spikes continued ...

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | | 1 | 0.0940 | mg/L | 1 | 0.100 | <0.000371 | 94 | 42.2 - 136 |
| Toluene | | 1 | 0.101 | mg/L | 1 | 0.100 | <0.000347 | 101 | 44.3 - 133 |
| Ethylbenzene | | 1 | 0.104 | mg/L | 1 | 0.100 | <0.000326 | 104 | 45.6 - 132 |
| Xylene | | 1 | 0.307 | mg/L | 1 | 0.300 | <0.000357 | 102 | 44.7 - 128 |

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

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| MTBE | | 1 | 0.0899 | mg/L | 1 | 0.100 | <0.000954 | 90 | 43.8 - 128 | 4 | 20 |
| Benzene | | 1 | 0.0904 | mg/L | 1 | 0.100 | <0.000371 | 90 | 42.2 - 136 | 4 | 20 |
| Toluene | | 1 | 0.0979 | mg/L | 1 | 0.100 | <0.000347 | 98 | 44.3 - 133 | 3 | 20 |
| Ethylbenzene | | 1 | 0.102 | mg/L | 1 | 0.100 | <0.000326 | 102 | 45.6 - 132 | 2 | 20 |
| Xylene | | 1 | 0.302 | mg/L | 1 | 0.300 | <0.000357 | 101 | 44.7 - 128 | 2 | 20 |

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

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT) | 0.0903 | 0.0884 | mg/L | 1 | 0.1 | 90 | 88 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.0961 | 0.0961 | mg/L | 1 | 0.1 | 96 | 96 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 310677

QC Batch: 95425
Prep Batch: 80859

Date Analyzed: 2012-10-03
QC Preparation: 2012-10-03

Analyzed By: MT
Prepared By: MT

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| MTBE | | 1 | 0.0752 | mg/L | 1 | 0.100 | <0.000331 | 75 | 51.9 - 132 |
| Benzene | | 1 | 0.0686 | mg/L | 1 | 0.100 | <0.000310 | 69 | 47 - 131 |
| Toluene | | 1 | 0.0726 | mg/L | 1 | 0.100 | 0.0003 | 72 | 52.2 - 128 |
| Ethylbenzene | | 1 | 0.0742 | mg/L | 1 | 0.100 | <0.000291 | 74 | 26.5 - 154 |
| Xylene | | 1 | 0.226 | mg/L | 1 | 0.300 | <0.000268 | 75 | 50.1 - 130 |

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

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| MTBE | | 1 | 0.0842 | mg/L | 1 | 0.100 | <0.000331 | 84 | 51.9 - 132 | 11 | 20 |
| Benzene | | 1 | 0.0774 | mg/L | 1 | 0.100 | <0.000310 | 77 | 47 - 131 | 12 | 20 |
| Toluene | | 1 | 0.0820 | mg/L | 1 | 0.100 | 0.0003 | 82 | 52.2 - 128 | 12 | 20 |
| Ethylbenzene | | 1 | 0.0832 | mg/L | 1 | 0.100 | <0.000291 | 83 | 26.5 - 154 | 11 | 20 |
| Xylene | | 1 | 0.255 | mg/L | 1 | 0.300 | <0.000268 | 85 | 50.1 - 130 | 12 | 20 |

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 18 of 22
Hobbs, NM

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) | 0.111 | 0.109 | mg/L | 1 | 0.1 | 111 | 109 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.0980 | 0.106 | mg/L | 1 | 0.1 | 98 | 106 | 70 - 130 |

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 19 of 22
Hobbs, NM

Calibration Standards

Standard (CCV-1)

QC Batch: 95349

Date Analyzed: 2012-10-01

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE | 1 | | mg/L | 0.100 | 0.0929 | 93 | 80 - 120 | 2012-10-01 |
| Benzene | 1 | | mg/L | 0.100 | 0.0950 | 95 | 80 - 120 | 2012-10-01 |
| Toluene | 1 | | mg/L | 0.100 | 0.0991 | 99 | 80 - 120 | 2012-10-01 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.102 | 102 | 80 - 120 | 2012-10-01 |
| Xylene | 1 | | mg/L | 0.300 | 0.301 | 100 | 80 - 120 | 2012-10-01 |

Standard (CCV-2)

QC Batch: 95349

Date Analyzed: 2012-10-01

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE | 1 | | mg/L | 0.100 | 0.0982 | 98 | 80 - 120 | 2012-10-01 |
| Benzene | 1 | | mg/L | 0.100 | 0.0967 | 97 | 80 - 120 | 2012-10-01 |
| Toluene | 1 | | mg/L | 0.100 | 0.103 | 103 | 80 - 120 | 2012-10-01 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.106 | 106 | 80 - 120 | 2012-10-01 |
| Xylene | 1 | | mg/L | 0.300 | 0.313 | 104 | 80 - 120 | 2012-10-01 |

Standard (CCV-3)

QC Batch: 95349

Date Analyzed: 2012-10-01

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE | 1 | | mg/L | 0.100 | 0.0922 | 92 | 80 - 120 | 2012-10-01 |
| Benzene | 1 | | mg/L | 0.100 | 0.0922 | 92 | 80 - 120 | 2012-10-01 |
| Toluene | 1 | | mg/L | 0.100 | 0.0991 | 99 | 80 - 120 | 2012-10-01 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.103 | 103 | 80 - 120 | 2012-10-01 |
| Xylene | 1 | | mg/L | 0.300 | 0.304 | 101 | 80 - 120 | 2012-10-01 |

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 20 of 22
Hobbs, NM

Standard (CCV-1)

QC Batch: 95350

Date Analyzed: 2012-10-01

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE | 1 | | mg/L | 0.100 | 0.0913 | 91 | 80 - 120 | 2012-10-01 |
| Benzene | 1 | | mg/L | 0.100 | 0.0899 | 90 | 80 - 120 | 2012-10-01 |
| Toluene | 1 | | mg/L | 0.100 | 0.0961 | 96 | 80 - 120 | 2012-10-01 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.0993 | 99 | 80 - 120 | 2012-10-01 |
| Xylene | 1 | | mg/L | 0.300 | 0.293 | 98 | 80 - 120 | 2012-10-01 |

Standard (CCV-2)

QC Batch: 95350

Date Analyzed: 2012-10-01

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE | 1 | | mg/L | 0.100 | 0.0937 | 94 | 80 - 120 | 2012-10-01 |
| Benzene | 1 | | mg/L | 0.100 | 0.0915 | 92 | 80 - 120 | 2012-10-01 |
| Toluene | 1 | | mg/L | 0.100 | 0.0988 | 99 | 80 - 120 | 2012-10-01 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.103 | 103 | 80 - 120 | 2012-10-01 |
| Xylene | 1 | | mg/L | 0.300 | 0.301 | 100 | 80 - 120 | 2012-10-01 |

Standard (CCV-3)

QC Batch: 95350

Date Analyzed: 2012-10-01

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE | 1 | | mg/L | 0.100 | 0.0929 | 93 | 80 - 120 | 2012-10-01 |
| Benzene | 1 | | mg/L | 0.100 | 0.0930 | 93 | 80 - 120 | 2012-10-01 |
| Toluene | 1 | | mg/L | 0.100 | 0.0985 | 98 | 80 - 120 | 2012-10-01 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.102 | 102 | 80 - 120 | 2012-10-01 |
| Xylene | 1 | | mg/L | 0.300 | 0.298 | 99 | 80 - 120 | 2012-10-01 |

Report Date: October 4, 2012
700376.045.01

Work Order: 12092825
Jal #2

Page Number: 21 of 22
Hobbs, NM

Standard (CCV-1)

QC Batch: 95425

Date Analyzed: 2012-10-03

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE | 1 | | mg/L | 0.100 | 0.0987 | 99 | 80 - 120 | 2012-10-03 |
| Benzene | 1 | | mg/L | 0.100 | 0.0896 | 90 | 80 - 120 | 2012-10-03 |
| Toluene | 1 | | mg/L | 0.100 | 0.0943 | 94 | 80 - 120 | 2012-10-03 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.0942 | 94 | 80 - 120 | 2012-10-03 |
| Xylene | 1 | | mg/L | 0.300 | 0.293 | 98 | 80 - 120 | 2012-10-03 |

Standard (CCV-2)

QC Batch: 95425

Date Analyzed: 2012-10-03

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE | 1 | | mg/L | 0.100 | 0.0981 | 98 | 80 - 120 | 2012-10-03 |
| Benzene | 1 | | mg/L | 0.100 | 0.0936 | 94 | 80 - 120 | 2012-10-03 |
| Toluene | 1 | | mg/L | 0.100 | 0.0972 | 97 | 80 - 120 | 2012-10-03 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.0961 | 96 | 80 - 120 | 2012-10-03 |
| Xylene | 1 | | mg/L | 0.300 | 0.298 | 99 | 80 - 120 | 2012-10-03 |

Standard (CCV-3)

QC Batch: 95425

Date Analyzed: 2012-10-03

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE | 1 | | mg/L | 0.100 | 0.0967 | 97 | 80 - 120 | 2012-10-03 |
| Benzene | 1 | | mg/L | 0.100 | 0.0898 | 90 | 80 - 120 | 2012-10-03 |
| Toluene | 1 | | mg/L | 0.100 | 0.0954 | 95 | 80 - 120 | 2012-10-03 |
| Ethylbenzene | 1 | | mg/L | 0.100 | 0.0949 | 95 | 80 - 120 | 2012-10-03 |
| Xylene | 1 | | mg/L | 0.300 | 0.293 | 98 | 80 - 120 | 2012-10-03 |

Appendix

Report Definitions

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

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | NELAP | T104704219-12-8 | Lubbock |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Attachments

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

Summary Report

Brad Ivy
 Talon LPE-Midland
 2901 State Highway 349
 Midland, TX 79706

Report Date: December 26, 2012

Work Order: 12121702

Project Location: Hobbs, NM
 Project Name: Jal #2
 Project Number: 700376.045.01
 SRS #: 2002-10273

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 316854 | MW-8 | water | 2012-12-14 | 12:30 | 2012-12-14 |
| 316855 | MW-10 | water | 2012-12-14 | 11:45 | 2012-12-14 |
| 316856 | MW-11 | water | 2012-12-14 | 11:40 | 2012-12-14 |
| 316857 | MW-12 | water | 2012-12-14 | 12:45 | 2012-12-14 |
| 316858 | MW-13 | water | 2012-12-14 | 12:35 | 2012-12-14 |
| 316859 | MW-14 | water | 2012-12-14 | 11:25 | 2012-12-14 |
| 316860 | MW-15 | water | 2012-12-14 | 11:30 | 2012-12-14 |
| 316861 | MW-16 | water | 2012-12-14 | 11:35 | 2012-12-14 |
| 316862 | MW-17 | water | 2012-12-14 | 12:20 | 2012-12-14 |
| 316863 | MW-18 | water | 2012-12-14 | 12:10 | 2012-12-14 |
| 316864 | MW-19 | water | 2012-12-14 | 11:55 | 2012-12-14 |
| 316865 | MW-20 | water | 2012-12-14 | 09:10 | 2012-12-14 |
| 316866 | MW-21 | water | 2012-12-14 | 09:15 | 2012-12-14 |

| Sample - Field Code | BTEX | | | | MTBE (mg/L) |
|---------------------|-----------------------------|-------------------------|------------------------------|-------------------------------|----------------|
| | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylene (mg/L) | |
| 316854 - MW-8 | 0.210 Q _s | <0.00100 Q _s | 0.0317 Q _s | 0.00200 Q _s | |
| 316855 - MW-10 | <0.00100 Q _s | <0.00100 Q _s | <0.00100 Q _s | <0.00100 Q _s | |
| 316856 - MW-11 | <0.00100 Q _s | <0.00100 Q _s | <0.00100 Q _s | <0.00100 Q _s | |
| 316857 - MW-12 | <0.00100 | 0.00140 | <0.00100 | 0.00100 | |
| 316858 - MW-13 | 10.7 | <0.0500 | 0.0690 | <0.0500 | |
| 316859 - MW-14 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | |
| 316860 - MW-15 | 9.63 | <0.0500 | 0.122 | 0.279 | |
| 316861 - MW-16 | 0.0546 | <0.00100 | <0.00100 | 0.00420 | |
| 316862 - MW-17 | <0.00100 | 0.00120 | <0.00100 | 0.00240 | |
| 316863 - MW-18 | 0.0465 | <0.00100 | <0.00100 | 0.00410 | |
| 316864 - MW-19 | 0.00980 | <0.00100 | <0.00100 | <0.00100 | |

continued ...

... continued

| Sample - Field Code | BTEX | | | | MTBE (mg/L) |
|---------------------|-------------------|-------------------|------------------------|------------------|----------------|
| | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylene (mg/L) | |
| 316865 - MW-20 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | |
| 316866 - MW-21 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | |

Sample: 316862 - MW-17

| Param | Flag | Result | Units | RL |
|------------------------|------|-----------|-------|--------|
| Naphthalene | | <0.000199 | mg/L | 0.0002 |
| 2-Methylnaphthalene | | <0.000199 | mg/L | 0.0002 |
| 1-Methylnaphthalene | | <0.000199 | mg/L | 0.0002 |
| Acenaphthylene | | <0.000199 | mg/L | 0.0002 |
| Acenaphthene | | <0.000199 | mg/L | 0.0002 |
| Dibenzofuran | | <0.000199 | mg/L | 0.0002 |
| Fluorene | | <0.000199 | mg/L | 0.0002 |
| Anthracene | | <0.000199 | mg/L | 0.0002 |
| Phenanthrene | | <0.000199 | mg/L | 0.0002 |
| Fluoranthene | | <0.000199 | mg/L | 0.0002 |
| Pyrene | | <0.000199 | mg/L | 0.0002 |
| Benzo(a)anthracene | | <0.000199 | mg/L | 0.0002 |
| Chrysene | Qs | <0.000199 | mg/L | 0.0002 |
| Benzo(b)fluoranthene | | <0.000199 | mg/L | 0.0002 |
| Benzo(k)fluoranthene | | <0.000199 | mg/L | 0.0002 |
| Benzo(a)pyrene | Qs | <0.000199 | mg/L | 0.0002 |
| Indeno(1,2,3-cd)pyrene | | <0.000199 | mg/L | 0.0002 |
| Dibenzo(a,h)anthracene | | <0.000199 | mg/L | 0.0002 |
| Benzo(g,h,i)perylene | | <0.000199 | mg/L | 0.0002 |

Sample: 316863 - MW-18

| Param | Flag | Result | Units | RL |
|----------------------|------|-----------|-------|--------|
| Naphthalene | | 0.00253 | mg/L | 0.0002 |
| 2-Methylnaphthalene | | 0.000825 | mg/L | 0.0002 |
| 1-Methylnaphthalene | | 0.00182 | mg/L | 0.0002 |
| Acenaphthylene | | <0.000199 | mg/L | 0.0002 |
| Acenaphthene | | <0.000199 | mg/L | 0.0002 |
| Dibenzofuran | | <0.000199 | mg/L | 0.0002 |
| Fluorene | | <0.000199 | mg/L | 0.0002 |
| Anthracene | | <0.000199 | mg/L | 0.0002 |
| Phenanthrene | | <0.000199 | mg/L | 0.0002 |
| Fluoranthene | | <0.000199 | mg/L | 0.0002 |
| Pyrene | | <0.000199 | mg/L | 0.0002 |
| Benzo(a)anthracene | | <0.000199 | mg/L | 0.0002 |
| Chrysene | Qs | <0.000199 | mg/L | 0.0002 |
| Benzo(b)fluoranthene | | <0.000199 | mg/L | 0.0002 |

continued ...

sample 316863 continued ...

| Param | Flag | Result | Units | RL |
|------------------------|------|-----------|-------|--------|
| Benzo(k)fluoranthene | | <0.000199 | mg/L | 0.0002 |
| Benzo(a)pyrene | Qs | <0.000199 | mg/L | 0.0002 |
| Indeno(1,2,3-cd)pyrene | | <0.000199 | mg/L | 0.0002 |
| Dibenzo(a,h)anthracene | | <0.000199 | mg/L | 0.0002 |
| Benzo(g,h,i)perylene | | <0.000199 | mg/L | 0.0002 |

Sample: 316864 - MW-19

| Param | Flag | Result | Units | RL |
|------------------------|------|-----------|-------|--------|
| Naphthalene | | <0.000200 | mg/L | 0.0002 |
| 2-Methylnaphthalene | | <0.000200 | mg/L | 0.0002 |
| 1-Methylnaphthalene | | <0.000200 | mg/L | 0.0002 |
| Acenaphthylene | | <0.000200 | mg/L | 0.0002 |
| Acenaphthene | | <0.000200 | mg/L | 0.0002 |
| Dibenzofuran | | <0.000200 | mg/L | 0.0002 |
| Fluorene | | <0.000200 | mg/L | 0.0002 |
| Anthracene | | <0.000200 | mg/L | 0.0002 |
| Phenanthrene | | <0.000200 | mg/L | 0.0002 |
| Fluoranthene | | <0.000200 | mg/L | 0.0002 |
| Pyrene | | <0.000200 | mg/L | 0.0002 |
| Benzo(a)anthracene | | <0.000200 | mg/L | 0.0002 |
| Chrysene | Qs | <0.000200 | mg/L | 0.0002 |
| Benzo(b)fluoranthene | | <0.000200 | mg/L | 0.0002 |
| Benzo(k)fluoranthene | | <0.000200 | mg/L | 0.0002 |
| Benzo(a)pyrene | Qs | <0.000200 | mg/L | 0.0002 |
| Indeno(1,2,3-cd)pyrene | | <0.000200 | mg/L | 0.0002 |
| Dibenzo(a,h)anthracene | | <0.000200 | mg/L | 0.0002 |
| Benzo(g,h,i)perylene | | <0.000200 | mg/L | 0.0002 |

TRACEANALYSIS, INC.

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(BioAqualytic) 2501 Mayes Rd., Suite 100 Carlsbad, Texas 75006 972·242·7750
E-Mail: lab@traceanalysis.com WEB www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Brad Ivy
Talon LPE-Midland
2901 State Highway 349
Midland, TX, 79706

Report Date: December 26, 2012

Work Order: 12121702



Project Location: Hobbs, NM
Project Name: Jal #2
Project Number: 700376.045.01
SRS #: 2002-10273

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 316854 | MW-8 | water | 2012-12-14 | 12:30 | 2012-12-14 |
| 316855 | MW-10 | water | 2012-12-14 | 11:45 | 2012-12-14 |
| 316856 | MW-11 | water | 2012-12-14 | 11:40 | 2012-12-14 |
| 316857 | MW-12 | water | 2012-12-14 | 12:45 | 2012-12-14 |
| 316858 | MW-13 | water | 2012-12-14 | 12:35 | 2012-12-14 |
| 316859 | MW-14 | water | 2012-12-14 | 11:25 | 2012-12-14 |
| 316860 | MW-15 | water | 2012-12-14 | 11:30 | 2012-12-14 |
| 316861 | MW-16 | water | 2012-12-14 | 11:35 | 2012-12-14 |
| 316862 | MW-17 | water | 2012-12-14 | 12:20 | 2012-12-14 |
| 316863 | MW-18 | water | 2012-12-14 | 12:10 | 2012-12-14 |
| 316864 | MW-19 | water | 2012-12-14 | 11:55 | 2012-12-14 |
| 316865 | MW-20 | water | 2012-12-14 | 09:10 | 2012-12-14 |
| 316866 | MW-21 | water | 2012-12-14 | 09:15 | 2012-12-14 |

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



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

Report Contents

| | |
|---|-----------|
| Case Narrative | 4 |
| Analytical Report | 5 |
| Sample 316854 (MW-8) | 5 |
| Sample 316855 (MW-10) | 5 |
| Sample 316856 (MW-11) | 5 |
| Sample 316857 (MW-12) | 6 |
| Sample 316858 (MW-13) | 6 |
| Sample 316859 (MW-14) | 7 |
| Sample 316860 (MW-15) | 7 |
| Sample 316861 (MW-16) | 8 |
| Sample 316862 (MW-17) | 8 |
| Sample 316863 (MW-18) | 10 |
| Sample 316864 (MW-19) | 11 |
| Sample 316865 (MW-20) | 12 |
| Sample 316866 (MW-21) | 13 |
| Method Blanks | 14 |
| QC Batch 97499 - Method Blank (1) | 14 |
| QC Batch 97501 - Method Blank (1) | 14 |
| QC Batch 97677 - Method Blank (1) | 14 |
| Laboratory Control Spikes | 16 |
| QC Batch 97499 - LCS (1) | 16 |
| QC Batch 97501 - LCS (1) | 16 |
| QC Batch 97677 - LCS (1) | 17 |
| QC Batch 97499 - MS (1) | 18 |
| QC Batch 97501 - MS (1) | 19 |
| Calibration Standards | 20 |
| QC Batch 97499 - CCV (1) | 20 |
| QC Batch 97499 - CCV (2) | 20 |
| QC Batch 97499 - CCV (3) | 20 |
| QC Batch 97501 - CCV (1) | 20 |
| QC Batch 97501 - CCV (2) | 21 |
| QC Batch 97501 - CCV (3) | 21 |
| QC Batch 97677 - CCV (2) | 21 |
| Appendix | 23 |
| Report Definitions | 23 |
| Laboratory Certifications | 23 |
| Standard Flags | 23 |
| Attachments | 23 |

Case Narrative

Samples for project Jal #2 were received by TraceAnalysis, Inc. on 2012-12-14 and assigned to work order 12121702. Samples for work order 12121702 were received intact without headspace and at a temperature of 2.0 C.

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

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|------|---------|------------|---------------------|----------|---------------------|
| BTEX | S 8021B | 82620 | 2012-12-17 at 14:19 | 97499 | 2012-12-17 at 14:19 |
| BTEX | S 8021B | 82621 | 2012-12-17 at 14:45 | 97501 | 2012-12-17 at 14:45 |
| PAH | S 8270D | 82752 | 2012-12-19 at 15:00 | 97677 | 2012-12-26 at 10:06 |

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 12121702 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 5 of 24
Hobbs, NM

Analytical Report

Sample: 316854 - MW-8

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 97501

Prep Batch: 82621

Analytical Method: S 8021B

Date Analyzed: 2012-12-17

Sample Preparation: 2012-12-17

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------------------|------|----------|-------|----------|---------|
| Benzene | Q _s | 1 | 0.210 | mg/L | 1 | 0.00100 |
| Toluene | Q _{s,U} | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | Q _s | 1 | 0.0317 | mg/L | 1 | 0.00100 |
| Xylene | Q _s | 1 | 0.00200 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0930 | mg/L | 1 | 0.100 | 93 | 80 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0956 | mg/L | 1 | 0.100 | 96 | 80 - 120 |

Sample: 316855 - MW-10

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 97501

Prep Batch: 82621

Analytical Method: S 8021B

Date Analyzed: 2012-12-17

Sample Preparation: 2012-12-17

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------------------|------|----------|-------|----------|---------|
| Benzene | Q _{s,U} | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | Q _{s,U} | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | Q _{s,U} | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | Q _{s,U} | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0946 | mg/L | 1 | 0.100 | 95 | 80 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0896 | mg/L | 1 | 0.100 | 90 | 80 - 120 |

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 6 of 24
Hobbs, NM

Sample: 316856 - MW-11

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 97501

Prep Batch: 82621

Analytical Method: S 8021B

Date Analyzed: 2012-12-17

Sample Preparation: 2012-12-17

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.0957 | mg/L | 1 | 0.100 | 96 | 80 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0961 | mg/L | 1 | 0.100 | 96 | 80 - 120 |

Sample: 316857 - MW-12

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 97499

Prep Batch: 82620

Analytical Method: S 8021B

Date Analyzed: 2012-12-17

Sample Preparation: 2012-12-17

Prep Method: S 5030B

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | RL | | Dilution | RL |
|--------------|------|------|----------|-------|----------|---------|
| | | | Result | Units | | |
| Benzene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | B | 1 | 0.00140 | mg/L | 1 | 0.00100 |
| Ethylbenzene | Jb | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | B | 1 | 0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|------------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.0779 | mg/L | 1 | 0.100 | 78 | 69.2 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0803 | mg/L | 1 | 0.100 | 80 | 67.1 - 120 |

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 7 of 24
Hobbs, NM

Sample: 316858 - MW-13

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 97499

Prep Batch: 82620

Analytical Method: S 8021B

Date Analyzed: 2012-12-17

Sample Preparation: 2012-12-17

Prep Method: S 5030B

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | Result | RL | | Dilution | RL | |
|------------------------------|------|------|---------|-------|----------|-----------------|------------------|------------|
| | | | | Units | Dilution | | | |
| Benzene | | 1 | 10.7 | mg/L | 50 | 0.00100 | | |
| Toluene | U | 1 | <0.0500 | mg/L | 50 | 0.00100 | | |
| Ethylbenzene | B | 1 | 0.0690 | mg/L | 50 | 0.00100 | | |
| Xylene | U | 1 | <0.0500 | mg/L | 50 | 0.00100 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | |
| | | | | | | Recovery Limits | | |
| Trifluorotoluene (TFT) | | | 3.91 | mg/L | 50 | 5.00 | 78 | 69.2 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | | 3.91 | mg/L | 50 | 5.00 | 78 | 67.1 - 120 |

Sample: 316859 - MW-14

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 97499

Prep Batch: 82620

Analytical Method: S 8021B

Date Analyzed: 2012-12-17

Sample Preparation: 2012-12-17

Prep Method: S 5030B

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | Result | RL | | Dilution | RL | |
|------------------------------|------|------|----------|-------|----------|-----------------|------------------|------------|
| | | | | Units | Dilution | | | |
| Benzene | U | 1 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Toluene | U | 1 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Ethylbenzene | J | 1 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Xylene | J | 1 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | |
| | | | | | | Recovery Limits | | |
| Trifluorotoluene (TFT) | | | 0.0748 | mg/L | 1 | 0.100 | 75 | 69.2 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0799 | mg/L | 1 | 0.100 | 80 | 67.1 - 120 |

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 8 of 24
Hobbs, NM

Sample: 316860 - MW-15

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2012-12-17 | Analyzed By: | JS |
| QC Batch: | 97499 | Sample Preparation: | 2012-12-17 | Prepared By: | JS |
| Prep Batch: | 82620 | | | | |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene | | 1 | 9.63 | mg/L | 50 | 0.00100 |
| Toluene | U | 1 | <0.0500 | mg/L | 50 | 0.00100 |
| Ethylbenzene | B | 1 | 0.122 | mg/L | 50 | 0.00100 |
| Xylene | | 1 | 0.279 | mg/L | 50 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 3.75 | mg/L | 50 | 5.00 | 75 | 69.2 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | | 3.96 | mg/L | 50 | 5.00 | 79 | 67.1 - 120 |

Sample: 316861 - MW-16

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2012-12-17 | Analyzed By: | JS |
| QC Batch: | 97499 | Sample Preparation: | 2012-12-17 | Prepared By: | JS |
| Prep Batch: | 82620 | | | | |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|----------------|-------|----------|---------|
| Benzene | | 1 | 0.0546 | mg/L | 1 | 0.00100 |
| Toluene | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | Jb | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | 1 | 0.00420 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0766 | mg/L | 1 | 0.100 | 77 | 69.2 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0807 | mg/L | 1 | 0.100 | 81 | 67.1 - 120 |

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 9 of 24
Hobbs, NM

Sample: 316862 - MW-17

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 97499

Prep Batch: 82620

Analytical Method: S 8021B

Date Analyzed: 2012-12-17

Sample Preparation: 2012-12-17

Prep Method: S 5030B

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|----------------|-------|----------|---------|
| Benzene | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | B | 1 | 0.00120 | mg/L | 1 | 0.00100 |
| Ethylbenzene | Jb | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | B | 1 | 0.00240 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0786 | mg/L | 1 | 0.100 | 79 | 69.2 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0748 | mg/L | 1 | 0.100 | 75 | 67.1 - 120 |

Sample: 316862 - MW-17

Laboratory: Lubbock

Analysis: PAH

QC Batch: 97677

Prep Batch: 82752

Analytical Method: S 8270D

Date Analyzed: 2012-12-26

Sample Preparation: 2012-12-19

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|------------------------|------|------|-----------|-------|----------|----------|
| Naphthalene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| 2-Methylnaphthalene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| 1-Methylnaphthalene | U | | <0.000199 | mg/L | 0.995 | 0.000200 |
| Acenaphthylene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Acenaphthene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Dibenzofuran | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Fluorene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Anthracene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Phenanthrene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Fluoranthene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Pyrene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Benzo(a)anthracene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Chrysene | Qs,U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Benzo(b)fluoranthene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Benzo(k)fluoranthene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Benzo(a)pyrene | Qs,U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Indeno(1,2,3-cd)pyrene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Dibenzo(a,h)anthracene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |

continued ...

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 10 of 24
Hobbs, NM

sample 316862 continued ...

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|----------------------|------|------|-----------|-------|----------|--------------|
| Benzo(g,h,i)perylene | u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| <hr/> | | | | | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount |
| Nitrobenzene-d5 | | | 0.0695 | mg/L | 0.995 | 0.0800 |
| 2-Fluorobiphenyl | | | 0.0651 | mg/L | 0.995 | 0.0800 |
| Terphenyl-d14 | | | 0.0701 | mg/L | 0.995 | 0.0800 |

Sample: 316863 - MW-18

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 97499

Prep Batch: 82620

Analytical Method: S 8021B

Date Analyzed: 2012-12-17

Sample Preparation: 2012-12-17

Prep Method: S 5030B

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|------------------------------|------|------|----------------|-------|----------|--------------|
| Benzene | | 1 | 0.0465 | mg/L | 1 | 0.00100 |
| Toluene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | jb | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | 1 | 0.00410 | mg/L | 1 | 0.00100 |
| <hr/> | | | | | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount |
| Trifluorotoluene (TFT) | | | 0.0703 | mg/L | 1 | 0.100 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0769 | mg/L | 1 | 0.100 |

Sample: 316863 - MW-18

Laboratory: Lubbock

Analysis: PAH

QC Batch: 97677

Prep Batch: 82752

Analytical Method: S 8270D

Date Analyzed: 2012-12-26

Sample Preparation: 2012-12-19

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|---------------------|------|------|-----------------|-------|----------|----------|
| Naphthalene | | 1 | 0.00253 | mg/L | 0.995 | 0.000200 |
| 2-Methylnaphthalene | | 1 | 0.000825 | mg/L | 0.995 | 0.000200 |
| 1-Methylnaphthalene | | | 0.00182 | mg/L | 0.995 | 0.000200 |

continued ...

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 11 of 24
Hobbs, NM

sample 316863 continued ...

| Parameter | Flag | Cert | Result | Units | Dilution | RL | | |
|------------------------|------|------|-----------|-------|----------|--------------|------------------|-----------------|
| Acenaphthylene | u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Acenaphthene | u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Dibenzofuran | u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Fluorene | u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Anthracene | u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Phenanthrene | u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Fluoranthene | u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Pyrene | u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Benzo(a)anthracene | u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Chrysene | Qs,u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Benzo(b)fluoranthene | u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Benzo(k)fluoranthene | u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Benzo(a)pyrene | Qs,u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Indeno(1,2,3-cd)pyrene | u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Dibenzo(a,h)anthracene | u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Benzo(g,h,i)perylene | u | 1 | <0.000199 | mg/L | 0.995 | 0.000200 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Nitrobenzene-d5 | | | 0.0619 | mg/L | 0.995 | 0.0800 | 77 | 40 - 110 |
| 2-Fluorobiphenyl | | | 0.0626 | mg/L | 0.995 | 0.0800 | 78 | 50 - 110 |
| Terphenyl-d14 | | | 0.0655 | mg/L | 0.995 | 0.0800 | 82 | 50 - 135 |

Sample: 316864 - MW-19

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 97499

Prep Batch: 82620

Analytical Method: S 8021B

Date Analyzed: 2012-12-17

Sample Preparation: 2012-12-17

Prep Method: S 5030B

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | Result | Units | Dilution | RL | | |
|------------------------|------|------|----------|-------|----------|--------------|------------------|-----------------|
| Benzene | | 1 | 0.00980 | mg/L | 1 | 0.00100 | | |
| Toluene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Ethylbenzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Xylene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotoluene (TFT) | | | 0.0793 | mg/L | 1 | 0.100 | 79 | 69.2 - 120 |

continued ...

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 12 of 24
Hobbs, NM

sample continued ...

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| 4-Bromofluorobenzene (4-BFB) | | | 0.0754 | mg/L | 1 | 0.100 | 75 | 67.1 - 120 |

Sample: 316864 - MW-19

Laboratory: Lubbock

Analysis: PAH

QC Batch: 97677

Prep Batch: 82752

Analytical Method: S 8270D

Date Analyzed: 2012-12-26

Sample Preparation: 2012-12-19

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5 | | | 0.0733 | mg/L | 1 | 0.0800 | 92 | 40 - 110 |
| 2-Fluorobiphenyl | | | 0.0734 | mg/L | 1 | 0.0800 | 92 | 50 - 110 |
| Terphenyl-d14 | | | 0.0897 | mg/L | 1 | 0.0800 | 112 | 50 - 135 |

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 13 of 24
Hobbs, NM

Sample: 316865 - MW-20

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 97499

Prep Batch: 82620

Analytical Method: S 8021B

Date Analyzed: 2012-12-17

Sample Preparation: 2012-12-17

Prep Method: S 5030B

Analyzed By: JS

Prepared By: JS

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0770 | mg/L | 1 | 0.100 | 77 | 69.2 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0799 | mg/L | 1 | 0.100 | 80 | 67.1 - 120 |

Sample: 316866 - MW-21

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 97499

Prep Batch: 82620

Analytical Method: S 8021B

Date Analyzed: 2012-12-17

Sample Preparation: 2012-12-17

Prep Method: S 5030B

Analyzed By: JS

Prepared By: JS

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0713 | mg/L | 1 | 0.100 | 71 | 69.2 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0796 | mg/L | 1 | 0.100 | 80 | 67.1 - 120 |

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 14 of 24
Hobbs, NM

Method Blanks

Method Blank (1) QC Batch: 97499

QC Batch: 97499 Date Analyzed: 2012-12-17 Analyzed By: JS
Prep Batch: 82620 QC Preparation: 2012-12-17 Prepared By: JS

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|-----------|------------|-------|----|
| Benzene | 1 | <0.000310 | mg/L | 0.001 | |
| Toluene | 1 | 0.000300 | mg/L | 0.001 | |
| Ethylbenzene | 1 | 0.000600 | mg/L | 0.001 | |
| Xylene | 1 | 0.000400 | mg/L | 0.001 | |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 0.0782 | mg/L | 1 | 0.100 | 78 | 69.2 - 120 | |
| 4-Bromofluorobenzene (4-BFB) | | 0.0790 | mg/L | 1 | 0.100 | 79 | 67.1 - 120 | |

Method Blank (1) QC Batch: 97501

QC Batch: 97501 Date Analyzed: 2012-12-17 Analyzed By: MT
Prep Batch: 82621 QC Preparation: 2012-12-17 Prepared By: MT

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|-----------|------------|-------|----|
| Benzene | 1 | <0.000371 | mg/L | 0.001 | |
| Toluene | 1 | <0.000347 | mg/L | 0.001 | |
| Ethylbenzene | 1 | <0.000326 | mg/L | 0.001 | |
| Xylene | 1 | <0.000357 | mg/L | 0.001 | |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|-------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 0.100 | mg/L | 1 | 0.100 | 100 | 80 - 120 | |
| 4-Bromofluorobenzene (4-BFB) | | 0.104 | mg/L | 1 | 0.100 | 104 | 80 - 120 | |

Method Blank (1) QC Batch: 97677

QC Batch: 97677 Date Analyzed: 2012-12-26 Analyzed By: MN
Prep Batch: 82752 QC Preparation: 2012-12-19 Prepared By: MN

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 15 of 24
Hobbs, NM

| Parameter | Flag | Cert | MDL Result | Units | RL |
|------------------------|------|------|------------|-------|--------|
| Naphthalene | | 1 | <0.000121 | mg/L | 0.0002 |
| 2-Methylnaphthalene | | 1 | <0.0000913 | mg/L | 0.0002 |
| 1-Methylnaphthalene | | | <0.000109 | mg/L | 0.0002 |
| Acenaphthylene | | 1 | <0.000100 | mg/L | 0.0002 |
| Acenaphthene | | 1 | <0.000122 | mg/L | 0.0002 |
| Dibenzofuran | | 1 | <0.000108 | mg/L | 0.0002 |
| Fluorene | | 1 | <0.000100 | mg/L | 0.0002 |
| Anthracene | | 1 | <0.0000791 | mg/L | 0.0002 |
| Phenanthrene | | 1 | <0.0000824 | mg/L | 0.0002 |
| Fluoranthene | | 1 | <0.000124 | mg/L | 0.0002 |
| Pyrene | | 1 | <0.0000691 | mg/L | 0.0002 |
| Benzo(a)anthracene | | 1 | <0.000101 | mg/L | 0.0002 |
| Chrysene | | 1 | <0.0000769 | mg/L | 0.0002 |
| Benzo(b)fluoranthene | | 1 | <0.0000813 | mg/L | 0.0002 |
| Benzo(k)fluoranthene | | 1 | <0.0000790 | mg/L | 0.0002 |
| Benzo(a)pyrene | | 1 | <0.0000701 | mg/L | 0.0002 |
| Indeno(1,2,3-cd)pyrene | | 1 | <0.0000770 | mg/L | 0.0002 |
| Dibenzo(a,h)anthracene | | 1 | <0.0000851 | mg/L | 0.0002 |
| Benzo(g,h,i)perylene | | 1 | <0.0000798 | mg/L | 0.0002 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5 | | | 0.0744 | mg/L | 1 | 0.0800 | 93 | 40 - 110 |
| 2-Fluorobiphenyl | | | 0.0744 | mg/L | 1 | 0.0800 | 93 | 50 - 110 |
| Terphenyl-d14 | | | 0.0765 | mg/L | 1 | 0.0800 | 96 | 50 - 135 |

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 16 of 24
Hobbs, NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 97499 Date Analyzed: 2012-12-17 Analyzed By: JS
Prep Batch: 82620 QC Preparation: 2012-12-17 Prepared By: JS

| Param | F | C | LCS | | Spike | | Matrix | Rec. | Rec. |
|--------------|---|---|--------|-------|-------|--------|-----------|------|------------|
| | | | Result | Units | Dil. | Amount | Result | Rec. | Limit |
| Benzene | | 1 | 0.0815 | mg/L | 1 | 0.100 | <0.000310 | 82 | 71.7 - 120 |
| Toluene | | 1 | 0.0870 | mg/L | 1 | 0.100 | 0.0003 | 87 | 73.3 - 120 |
| Ethylbenzene | | 1 | 0.0875 | mg/L | 1 | 0.100 | 0.0006 | 87 | 72.8 - 120 |
| Xylene | | 1 | 0.263 | mg/L | 1 | 0.300 | 0.0004 | 88 | 72.7 - 120 |

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

| Param | F | C | LCSD | | Spike | | Matrix | Rec. | RPD | RPD | |
|--------------|---|---|--------|-------|-------|--------|-----------|------|------------|-------|----|
| | | | Result | Units | Dil. | Amount | Result | Rec. | Limit | Limit | |
| Benzene | | 1 | 0.0823 | mg/L | 1 | 0.100 | <0.000310 | 82 | 71.7 - 120 | 1 | 20 |
| Toluene | | 1 | 0.0872 | mg/L | 1 | 0.100 | 0.0003 | 87 | 73.3 - 120 | 0 | 20 |
| Ethylbenzene | | 1 | 0.0862 | mg/L | 1 | 0.100 | 0.0006 | 86 | 72.8 - 120 | 2 | 20 |
| Xylene | | 1 | 0.257 | mg/L | 1 | 0.300 | 0.0004 | 86 | 72.7 - 120 | 2 | 20 |

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

| Surrogate | | LCS | LCSD | | Spike | LCS | LCSD | Rec. | Rec. |
|------------------------------|--|--------|--------|-------|-------|--------|------|------|------------|
| | | Result | Result | Units | Dil. | Amount | Rec. | Rec. | Limit |
| Trifluorotoluene (TFT) | | 0.0768 | 0.0745 | mg/L | 1 | 0.100 | 77 | 74 | 69.2 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0836 | 0.0813 | mg/L | 1 | 0.100 | 84 | 81 | 67.1 - 120 |

Laboratory Control Spike (LCS-1)

QC Batch: 97501 Date Analyzed: 2012-12-17 Analyzed By: MT
Prep Batch: 82621 QC Preparation: 2012-12-17 Prepared By: MT

| Param | F | C | LCS | | Spike | | Matrix | Rec. | Rec. |
|--------------|---|---|--------|-------|-------|--------|-----------|------|----------|
| | | | Result | Units | Dil. | Amount | Result | Rec. | Limit |
| Benzene | | 1 | 0.0990 | mg/L | 1 | 0.100 | <0.000371 | 99 | 80 - 120 |
| Toluene | | 1 | 0.102 | mg/L | 1 | 0.100 | <0.000347 | 102 | 80 - 120 |
| Ethylbenzene | | 1 | 0.102 | mg/L | 1 | 0.100 | <0.000326 | 102 | 80 - 120 |
| Xylene | | 1 | 0.305 | mg/L | 1 | 0.300 | <0.000357 | 102 | 80 - 120 |

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

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 17 of 24
Hobbs, NM

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | RPD Limit |
|--------------|---|---|----------------|-------|------|-----------------|------------------|--------------|--------------|
| Benzene | | 1 | 0.0988 | mg/L | 1 | 0.100 | <0.000371 | 99 | 80 - 120 |
| Toluene | | 1 | 0.102 | mg/L | 1 | 0.100 | <0.000347 | 102 | 80 - 120 |
| Ethylbenzene | | 1 | 0.101 | mg/L | 1 | 0.100 | <0.000326 | 101 | 80 - 120 |
| Xylene | | 1 | 0.303 | mg/L | 1 | 0.300 | <0.000357 | 101 | 80 - 120 |

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 | 0.0984 | mg/L | 1 | 0.100 | 96 | 98 | 80 - 120 |
| 4-Bromofluorobenzene (4-BFB) | 0.0976 | 0.0990 | mg/L | 1 | 0.100 | 98 | 99 | 80 - 120 |

Laboratory Control Spike (LCS-1)

QC Batch: 97677
Prep Batch: 82752

Date Analyzed: 2012-12-26
QC Preparation: 2012-12-19

Analyzed By: MN
Prepared By: MN

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit |
|------------------------|----|----|---------------|-------|------|-----------------|------------------|--------------|---------------|
| Naphthalene | | 1 | 0.0663 | mg/L | 1 | 0.0800 | <0.000121 | 83 | 40 - 100 |
| 2-Methylnaphthalene | | 1 | 0.0636 | mg/L | 1 | 0.0800 | <0.0000913 | 80 | 45 - 105 |
| 1-Methylnaphthalene | | | 0.0618 | mg/L | 1 | 0.0800 | <0.000109 | 77 | 70 - 130 |
| Acenaphthylene | | 1 | 0.0711 | mg/L | 1 | 0.0800 | <0.000100 | 89 | 50 - 105 |
| Acenaphthene | | 1 | 0.0680 | mg/L | 1 | 0.0800 | <0.000122 | 85 | 45 - 110 |
| Dibenzofuran | | 1 | 0.0608 | mg/L | 1 | 0.0800 | <0.000108 | 76 | 55 - 105 |
| Fluorene | | 1 | 0.0702 | mg/L | 1 | 0.0800 | <0.000100 | 88 | 50 - 110 |
| Anthracene | | 1 | 0.0637 | mg/L | 1 | 0.0800 | <0.0000791 | 80 | 55 - 110 |
| Phenanthrene | | 1 | 0.0699 | mg/L | 1 | 0.0800 | <0.0000824 | 87 | 50 - 115 |
| Fluoranthene | | 1 | 0.0633 | mg/L | 1 | 0.0800 | <0.000124 | 79 | 55 - 115 |
| Pyrene | | 1 | 0.0527 | mg/L | 1 | 0.0800 | <0.0000691 | 66 | 50 - 130 |
| Benzo(a)anthracene | | 1 | 0.0533 | mg/L | 1 | 0.0800 | <0.000101 | 67 | 55 - 110 |
| Chrysene | Qs | Qs | 0.0889 | mg/L | 1 | 0.0800 | <0.0000769 | 111 | 55 - 110 |
| Benzo(b)fluoranthene | | 1 | 0.0389 | mg/L | 1 | 0.0800 | <0.0000813 | 49 | 45 - 120 |
| Benzo(k)fluoranthene | | 1 | 0.0443 | mg/L | 1 | 0.0800 | <0.0000790 | 55 | 45 - 125 |
| Benzo(a)pyrene | Qs | Qs | 0.0423 | mg/L | 1 | 0.0800 | <0.0000701 | 53 | 55 - 110 |
| Indeno(1,2,3-cd)pyrene | | 1 | 0.0470 | mg/L | 1 | 0.0800 | <0.0000770 | 59 | 45 - 125 |
| Dibenzo(a,h)anthracene | | 1 | 0.0709 | mg/L | 1 | 0.0800 | <0.0000851 | 89 | 40 - 125 |
| Benzo(g,h,i)perylene | | 1 | 0.0454 | mg/L | 1 | 0.0800 | <0.0000798 | 57 | 40 - 125 |

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

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | RPD Limit |
|-------------|---|---|----------------|-------|------|-----------------|------------------|--------------|--------------|
| Naphthalene | | 1 | 0.0670 | mg/L | 1 | 0.0800 | <0.000121 | 84 | 40 - 100 |

continued ...

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 18 of 24
Hobbs, NM

control spikes continued ...

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit | |
|------------------------|----|----|----------------|--------|------|-----------------|------------------|------------|---------------|----------|--------------|----|
| 2-Methylnaphthalene | | | 1 | 0.0654 | mg/L | 1 | 0.0800 | <0.0000913 | 82 | 45 - 105 | 3 | 20 |
| 1-Methylnaphthalene | | | | 0.0640 | mg/L | 1 | 0.0800 | <0.000109 | 80 | 70 - 130 | 4 | 20 |
| Acenaphthylene | | | 1 | 0.0707 | mg/L | 1 | 0.0800 | <0.000100 | 88 | 50 - 105 | 1 | 20 |
| Acenaphthene | | | 1 | 0.0672 | mg/L | 1 | 0.0800 | <0.000122 | 84 | 45 - 110 | 1 | 20 |
| Dibenzofuran | | | 1 | 0.0601 | mg/L | 1 | 0.0800 | <0.000108 | 75 | 55 - 105 | 1 | 20 |
| Fluorene | | | 1 | 0.0696 | mg/L | 1 | 0.0800 | <0.000100 | 87 | 50 - 110 | 1 | 20 |
| Anthracene | | | 1 | 0.0624 | mg/L | 1 | 0.0800 | <0.0000791 | 78 | 55 - 110 | 2 | 20 |
| Phenanthrene | | | 1 | 0.0694 | mg/L | 1 | 0.0800 | <0.0000824 | 87 | 50 - 115 | 1 | 20 |
| Fluoranthene | | | 1 | 0.0622 | mg/L | 1 | 0.0800 | <0.000124 | 78 | 55 - 115 | 2 | 20 |
| Pyrene | | | 1 | 0.0609 | mg/L | 1 | 0.0800 | <0.0000691 | 76 | 50 - 130 | 14 | 20 |
| Benzo(a)anthracene | | | 1 | 0.0614 | mg/L | 1 | 0.0800 | <0.000101 | 77 | 55 - 110 | 14 | 20 |
| Chrysene | Qs | Qs | 1 | 0.102 | mg/L | 1 | 0.0800 | <0.0000769 | 128 | 55 - 110 | 14 | 20 |
| Benzo(b)fluoranthene | | | 1 | 0.0378 | mg/L | 1 | 0.0800 | <0.0000813 | 47 | 45 - 120 | 3 | 20 |
| Benzo(k)fluoranthene | | | 1 | 0.0439 | mg/L | 1 | 0.0800 | <0.0000790 | 55 | 45 - 125 | 1 | 20 |
| Benzo(a)pyrene | Qs | Qs | 1 | 0.0419 | mg/L | 1 | 0.0800 | <0.0000701 | 52 | 55 - 110 | 1 | 20 |
| Indeno(1,2,3-cd)pyrene | | | 1 | 0.0471 | mg/L | 1 | 0.0800 | <0.0000770 | 59 | 45 - 125 | 0 | 20 |
| Dibenzo(a,h)anthracene | | | 1 | 0.0685 | mg/L | 1 | 0.0800 | <0.0000851 | 86 | 40 - 125 | 3 | 20 |
| Benzo(g,h,i)perylene | | | 1 | 0.0444 | mg/L | 1 | 0.0800 | <0.0000798 | 56 | 40 - 125 | 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 |
|------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Nitrobenzene-d5 | 0.0510 | 0.0524 | mg/L | 1 | 0.0800 | 64 | 66 | 40 - 110 |
| 2-Fluorobiphenyl | 0.0570 | 0.0569 | mg/L | 1 | 0.0800 | 71 | 71 | 50 - 110 |
| Terphenyl-d14 | 0.0460 | 0.0534 | mg/L | 1 | 0.0800 | 58 | 67 | 50 - 135 |

Matrix Spike (MS-1) Spiked Sample: 316857

QC Batch: 97499
Prep Batch: 82620

Date Analyzed: 2012-12-17
QC Preparation: 2012-12-17

Analyzed By: JS
Prepared By: JS

| Param | F | C | MS | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|--------|-------|------|--------------|---------------|------|------------|
| | | | Result | Units | | | | | |
| Benzene | | 1 | 0.0816 | mg/L | 1 | 0.100 | 0.0006 | 81 | 56.8 - 127 |
| Toluene | | 1 | 0.0851 | mg/L | 1 | 0.100 | 0.0014 | 84 | 57.6 - 125 |
| Ethylbenzene | | 1 | 0.0836 | mg/L | 1 | 0.100 | 0.0006 | 83 | 60.4 - 121 |
| Xylene | | 1 | 0.253 | mg/L | 1 | 0.300 | 0.001 | 84 | 60.3 - 125 |

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

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 19 of 24
Hobbs, NM

matrix spikes continued ...

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD RPD | RPD Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|-----------|------------|---------|-----------|
| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD RPD | RPD Limit |
| Benzene | 1 | | 0.0825 | mg/L | 1 | 0.100 | 0.0006 | 82 | 56.8 - 127 | 1 | 20 |
| Toluene | 1 | | 0.0860 | mg/L | 1 | 0.100 | 0.0014 | 85 | 57.6 - 125 | 1 | 20 |
| Ethylbenzene | 1 | | 0.0848 | mg/L | 1 | 0.100 | 0.0006 | 84 | 60.4 - 121 | 1 | 20 |
| Xylene | 1 | | 0.257 | mg/L | 1 | 0.300 | 0.001 | 85 | 60.3 - 125 | 2 | 20 |

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

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT) | 0.0745 | 0.0748 | mg/L | 1 | 0.1 | 74 | 75 | 69.2 - 120 |
| 4-Bromofluorobenzene (4-BFB) | 0.0790 | 0.0808 | mg/L | 1 | 0.1 | 79 | 81 | 67.1 - 120 |

Matrix Spike (MS-1) Spiked Sample: 316839

QC Batch: 97501
Prep Batch: 82621

Date Analyzed: 2012-12-17
QC Preparation: 2012-12-17

Analyzed By: MT
Prepared By: MT

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | |
|--------------|----------------|----------------|-----------|-------|------|--------------|---------------|-----------|------------|------------|
| Benzene | Q _s | Q _s | 1 | 2.31 | mg/L | 1 | 0.100 | 2.3289 | -17 | 61.3 - 124 |
| Toluene | Q _s | Q _s | 1 | 0.522 | mg/L | 1 | 0.100 | 0.4531 | 69 | 62 - 126 |
| Ethylbenzene | Q _s | Q _s | 1 | 0.183 | mg/L | 1 | 0.100 | 0.0958 | 87 | 61.6 - 127 |
| Xylene | Q _s | Q _s | 1 | 0.444 | mg/L | 1 | 0.300 | 0.1744 | 90 | 57.3 - 126 |

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

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD RPD | RPD Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|-----------|------------|---------|-----------|
| Benzene | 1 | | 2.33 | mg/L | 1 | 0.100 | 2.3289 | 1 | 61.3 - 124 | 1 | 20 |
| Toluene | 1 | | 0.530 | mg/L | 1 | 0.100 | 0.4531 | 77 | 62 - 126 | 2 | 20 |
| Ethylbenzene | 1 | | 0.186 | mg/L | 1 | 0.100 | 0.0958 | 90 | 61.6 - 127 | 2 | 20 |
| Xylene | 1 | | 0.451 | mg/L | 1 | 0.300 | 0.1744 | 92 | 57.3 - 126 | 2 | 20 |

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

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT) | 0.0914 | 0.0908 | mg/L | 1 | 0.1 | 91 | 91 | 80 - 120 |
| 4-Bromofluorobenzene (4-BFB) | 0.0968 | 0.0950 | mg/L | 1 | 0.1 | 97 | 95 | 80 - 120 |

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 20 of 24
Hobbs, NM

Calibration Standards

Standard (CCV-1)

QC Batch: 97499

Date Analyzed: 2012-12-17

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date |
|--------------|-------|----------|--------|----------|-------|----------|------------|------|
| | | | | True | Found | Percent | Recovery | |
| Conc. | Conc. | Recovery | Limits | Analyzed | | | | |
| Benzene | 1 | mg/L | 0.100 | 0.0815 | 82 | 80 - 120 | 2012-12-17 | |
| Toluene | 1 | mg/L | 0.100 | 0.0891 | 89 | 80 - 120 | 2012-12-17 | |
| Ethylbenzene | 1 | mg/L | 0.100 | 0.0879 | 88 | 80 - 120 | 2012-12-17 | |
| Xylene | 1 | mg/L | 0.300 | 0.256 | 85 | 80 - 120 | 2012-12-17 | |

Standard (CCV-2)

QC Batch: 97499

Date Analyzed: 2012-12-17

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date |
|--------------|-------|----------|--------|----------|-------|----------|------------|------|
| | | | | True | Found | Percent | Recovery | |
| Conc. | Conc. | Recovery | Limits | Analyzed | | | | |
| Benzene | 1 | mg/L | 0.100 | 0.0806 | 81 | 80 - 120 | 2012-12-17 | |
| Toluene | 1 | mg/L | 0.100 | 0.0831 | 83 | 80 - 120 | 2012-12-17 | |
| Ethylbenzene | 1 | mg/L | 0.100 | 0.0838 | 84 | 80 - 120 | 2012-12-17 | |
| Xylene | 1 | mg/L | 0.300 | 0.252 | 84 | 80 - 120 | 2012-12-17 | |

Standard (CCV-3)

QC Batch: 97499

Date Analyzed: 2012-12-17

Analyzed By: JS

| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date |
|--------------|-------|----------|--------|-------|--------|---------|----------|------------|
| | | | | True | Found | Percent | Recovery | Analyzed |
| Conc. | Conc. | Recovery | Limits | | | | | |
| Benzene | | 1 | mg/L | 0.100 | 0.0822 | 82 | 80 - 120 | 2012-12-17 |
| Toluene | | 1 | mg/L | 0.100 | 0.0855 | 86 | 80 - 120 | 2012-12-17 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0839 | 84 | 80 - 120 | 2012-12-17 |
| Xylene | | 1 | mg/L | 0.300 | 0.255 | 85 | 80 - 120 | 2012-12-17 |

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 21 of 24
Hobbs, NM

Standard (CCV-1)

QC Batch: 97501

Date Analyzed: 2012-12-17

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.0979 | 98 | 80 - 120 | 2012-12-17 |
| Toluene | | 1 | mg/L | 0.100 | 0.101 | 101 | 80 - 120 | 2012-12-17 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.101 | 101 | 80 - 120 | 2012-12-17 |
| Xylene | | 1 | mg/L | 0.300 | 0.303 | 101 | 80 - 120 | 2012-12-17 |

Standard (CCV-2)

QC Batch: 97501

Date Analyzed: 2012-12-17

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.101 | 101 | 80 - 120 | 2012-12-17 |
| Toluene | | 1 | mg/L | 0.100 | 0.104 | 104 | 80 - 120 | 2012-12-17 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.103 | 103 | 80 - 120 | 2012-12-17 |
| Xylene | | 1 | mg/L | 0.300 | 0.307 | 102 | 80 - 120 | 2012-12-17 |

Standard (CCV-3)

QC Batch: 97501

Date Analyzed: 2012-12-17

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.0950 | 95 | 80 - 120 | 2012-12-17 |
| Toluene | | 1 | mg/L | 0.100 | 0.0974 | 97 | 80 - 120 | 2012-12-17 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0945 | 94 | 80 - 120 | 2012-12-17 |
| Xylene | | 1 | mg/L | 0.300 | 0.283 | 94 | 80 - 120 | 2012-12-17 |

Standard (CCV-2)

QC Batch: 97677

Date Analyzed: 2012-12-26

Analyzed By: MN

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 22 of 24
Hobbs, NM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Naphthalene | 1 | | mg/L | 60.0 | 60.8 | 101 | 80 - 120 | 2012-12-26 |
| 2-Methylnaphthalene | 1 | | mg/L | 60.0 | 58.2 | 97 | 80 - 120 | 2012-12-26 |
| 1-Methylnaphthalene | | | mg/L | 60.0 | 58.2 | 97 | 80 - 120 | 2012-12-26 |
| Acenaphthylene | 1 | | mg/L | 60.0 | 53.9 | 90 | 80 - 120 | 2012-12-26 |
| Acenaphthene | 1 | | mg/L | 60.0 | 55.7 | 93 | 80 - 120 | 2012-12-26 |
| Dibenzofuran | 1 | | mg/L | 60.0 | 59.4 | 99 | 80 - 120 | 2012-12-26 |
| Fluorene | 1 | | mg/L | 60.0 | 57.3 | 96 | 80 - 120 | 2012-12-26 |
| Anthracene | 1 | | mg/L | 60.0 | 54.4 | 91 | 80 - 120 | 2012-12-26 |
| Phenanthrene | 1 | | mg/L | 60.0 | 58.4 | 97 | 80 - 120 | 2012-12-26 |
| Fluoranthene | 1 | | mg/L | 60.0 | 57.7 | 96 | 80 - 120 | 2012-12-26 |
| Pyrene | 1 | | mg/L | 60.0 | 60.7 | 101 | 80 - 120 | 2012-12-26 |
| Benzo(a)anthracene | 1 | | mg/L | 60.0 | 59.9 | 100 | 80 - 120 | 2012-12-26 |
| Chrysene | 1 | | mg/L | 60.0 | 58.6 | 98 | 80 - 120 | 2012-12-26 |
| Benzo(b)fluoranthene | 1 | | mg/L | 60.0 | 53.8 | 90 | 80 - 120 | 2012-12-26 |
| Benzo(k)fluoranthene | 1 | | mg/L | 60.0 | 55.7 | 93 | 80 - 120 | 2012-12-26 |
| Benzo(a)pyrene | 1 | | mg/L | 60.0 | 57.8 | 96 | 80 - 120 | 2012-12-26 |
| Indeno(1,2,3-cd)pyrene | 1 | | mg/L | 60.0 | 61.5 | 102 | 80 - 120 | 2012-12-26 |
| Dibenzo(a,h)anthracene | 1 | | mg/L | 60.0 | 60.9 | 102 | 80 - 120 | 2012-12-26 |
| Benzo(g,h,i)perylene | 1 | | mg/L | 60.0 | 61.0 | 102 | 80 - 120 | 2012-12-26 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limit |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5 | | | 61.6 | mg/L | 1 | 60.0 | 103 | - |
| 2-Fluorobiphenyl | | | 58.6 | mg/L | 1 | 60.0 | 98 | - |
| Terphenyl-d14 | | | 63.2 | mg/L | 1 | 60.0 | 105 | - |

Appendix

Report Definitions

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

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | NELAP | T104704219-12-8 | Lubbock |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| M11 | Split peak or shoulder peak |
| M12 | Instrument software did not integrate |
| M13 | Instrument software misidentified the peak |
| M14 | Instrument software integrated improperly |
| M15 | Baseline correction |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Attachments

Report Date: December 26, 2012
700376.045.01

Work Order: 12121702
Jal #2

Page Number: 24 of 24
Hobbs, NM

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

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (915) 585-3443
Fax (915) 585-4944
1(888) 588-3443

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

Company Name: *Taylor Lab*
Address: *2701 S State Hwy 110, Lubbock, TX*
Contact Person: *Brenda Ivy*
Invoice to:
(If different from above)
Project #: *432 - S22-2133*
Fax #: *432 - 522-2160*
E-mail: *B.Ivy@taylorlab.com*

Invoice to:

(If different from above)

Project Name: *JOL # 2*Sampler Signature: *[Signature]*Project Location (including state): *TX-35S, NM*

| LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | MATRIX | PRESERVATIVE METHOD | TIME | DATE | SAMPLING | | | | | | REMARKS: | | | | | |
|----------------------------|-----------------------------|-----------------------|--------------------|------------------------|------------------|---------------|---------------|------|------------------|--------------------------------|------|-----|----------|-----|------|----------------------------|----------------------------|--|
| | | | | | | | None | HCl | HNO ₃ | H ₂ SO ₄ | NaOH | ICE | SLUDGE | AIR | SOIL | WATER | VOLUME / AMOUNT | |
| 316854 | MW-8 | 3 | WATER | X | X | 11/12/12 | | | | | | | | | | | | |
| 855 | MW-10 | 3 | AIR | X | X | | | | | | | | | | | | | |
| 856 | MW-11 | 3 | | X | X | | | | | | | | | | | | | |
| 857 | MW-12 | 3 | | X | X | | | | | | | | | | | | | |
| 858 | MW-13 | 3 | | X | X | | | | | | | | | | | | | |
| 859 | MW-14 | 3 | | X | X | | | | | | | | | | | | | |
| 860 | MW-15 | 3 | | X | X | | | | | | | | | | | | | |
| 861 | MW-16 | 3 | | X | X | | | | | | | | | | | | | |
| 862 | MW-17 | 3 | | X | X | | | | | | | | | | | | | |
| 863 | MW-18 | 3 | | X | X | | | | | | | | | | | | | |
| 864 | MW-19 | 3 | | X | X | | | | | | | | | | | | | |
| Relinquished by: | Company: <i>Kerchuk Lab</i> | Date: <i>12/14/12</i> | Time: <i>16:00</i> | Received by: <i></i> | Company: <i></i> | Date: <i></i> | Time: <i></i> | INST | OBS | COR | O | O | O | O | O | LAB USE ONLY | Dry Weight Basis Required | |
| Relinquished by: | Company: <i></i> | Date: <i></i> | Time: <i></i> | Received by: <i></i> | Company: <i></i> | Date: <i></i> | Time: <i></i> | INST | OBS | COR | O | O | O | O | O | TRP Report Required | Check If Special Reporting | |
| Relinquished by: | Company: <i></i> | Date: <i></i> | Time: <i></i> | Received by: <i></i> | Company: <i></i> | Date: <i></i> | Time: <i></i> | INST | OBS | COR | O | O | O | O | O | Check If Special Reporting | Limits Are Needed | |

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

ORIGINAL COPY

Carrier #

Canyon

APPENDIX D

NMOCD C-141

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

State of New Mexico
 Energy Minerals and Natural Resources
 Oil Conservation Division
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

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

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

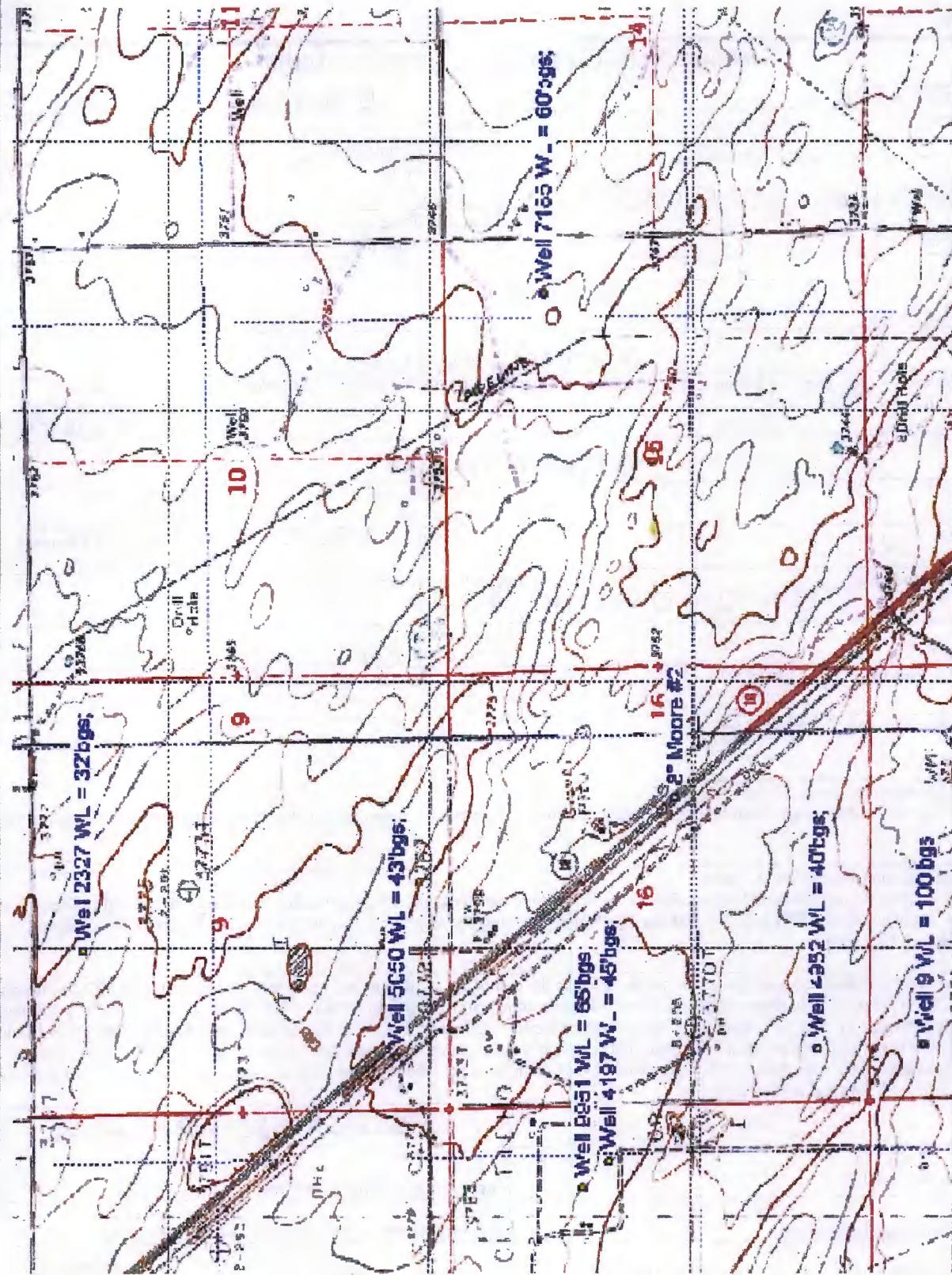
LOCATION OF RELEASE

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

NATURE OF RELEASE

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

* Attach Additional Sheets If Necessary



EOTT ENERGY
LLC
8' MOORE TO
JAL #2
#2002-10273
UL J SEC 16
T17S R37E
AFFECTED AREA
~3794 SQFT



Land of Moore, New Mexico
NW 1/4 Sec 16 T17S R37E

8-10-92 529
12-2002

