



2015 Annual Groundwater Monitoring Report

Darr Angell No. 4

Lea County, New Mexico

SRS #2001-108876

NMOCD Abatement Plan Permit No. AP-007

Prepared for: Plains All American Pipeline, LP

2135 S. Loop 250 W, Midland, Texas 79703 USA

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1. Introduction

This 2015 Annual Groundwater Monitoring Report presents data collected at the Darr Angell No. 4 location (hereafter referred to as the “Site”) by GHD Services, Inc. (GHD) on behalf of Plains Pipeline, L.P. (Plains) in compliance with the New Mexico Oil Conservation Division (NMOCD) correspondence dated May 1998. This Site falls under NMOCD Abatement Plan number AP-007. This report presents groundwater assessment and remediation activities associated with quarterly monitoring/recovery well gauging and groundwater sampling events (March, June, August and late November to early December). Groundwater remediation of hydrocarbons via total fluid pumps in conjunction with vapor extraction, pneumatic product only skimmer pumps and light non-aqueous phase liquid (LNAPL) abatement via bi-weekly (every two weeks) hand bailing were also performed during the 2015 calendar year.

1.1 Site Location and History

The legal description of the Site is NW1/4, NE1/4, Section 11, Township 15 South, Range 37 East and SW1/4, SE1/4, Section 2, Township 15 South, Range 37 East, Lea County, New Mexico and is shown in (Figure 1). The Site was formerly the responsibility of Enron Oil Trading and Transportation (EOTT); however, the Site is currently the responsibility of Plains. There were two separate pipeline releases at the Site. The first release occurred on November 9, 1999, and the second on February 2, 2001. The second release was discovered by EOTT employees and notification was immediately made to the NMOCD. Details of the release were later submitted on a Release Notification and Corrective Action Form (C-141) to the NMOCD on May 21, 2005. According to the release report, an estimated 150 barrels of crude oil was released and 95 barrels were recovered during initial response actions. The release was reported to have occurred from an 8-inch EOTT pipeline and was attributed to internal pipeline corrosion.

Beginning on May 29, 2004, project management responsibilities were assumed by NOVA. GHD, formerly Conestoga-Rovers and Associates, Inc. (CRA) assumed Site remediation and project management responsibilities on May 2, 2011.

Currently, there are 16 groundwater monitoring wells (MW-1A, MW-2, MW-3R, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12R, MW-13, MW-14, MW-15 and MW-16) and 15 product recovery wells (RW-1, RW-2, RW-3R, RW-4R, RW-5, RW-6, RW-7, RW-8, RW-9, RW-10, RW-11, RW-12, RW-13, RW-14 and RW-15) at the Site. Recovery well RW-4 was plugged and abandoned with NMOCD approval on October 9, 2014. Replacement recovery well RW-4R was drilled and constructed on October 9, 2014. Replacement recovery well RW-3R and recovery wells RW-14 and RW-15 were drilled and constructed on October 14, 2014. Monitoring wells MW-3 and MW-12 and recovery well RW-3 were plugged and abandoned with NMOCD approval on October 15, 2014. Replacement monitoring wells MW-3R and MW-12R were drilled and constructed on October 15, 2014. Professional surveying of the new and replacement wells was performed on November 11, 2014.

2. Regulatory Framework

The Site has been assigned Abatement Plan number AP-007 by the New Mexico Oil Conservation Division (NMOCD) Environmental Bureau. The NMOCD guidelines require groundwater to be

analyzed for potential contaminants as defined by the New Mexico Water Quality Control Commission (NMWQCC) Standards 20.6.2.3103 Section A, which provides the Human Health Standards for Groundwater. The constituents of concern (COCs) in affected groundwater at the Site are LNAPL, benzene, toluene, ethylbenzene and total xylenes (BTEX). In this report, groundwater analytical results for the COCs are compared to the NMWQCC standards as shown in the following table:

| Analyte | NMWQCC Standard for Groundwater |
|---|---------------------------------|
| 20.6.2.3103 Section A – Human Health Standard | |
| Benzene | 0.01 mg/L |
| Toluene | 0.75 mg/L |
| Ethylbenzene | 0.75 mg/L |
| Total Xylenes | 0.62 mg/L |

The table below is the site sampling schedule approved by the NMOCD in a correspondence dated April 28, 2004 and was amended in NMOCD correspondence dated June 21, 2005.

| NMOCD APPROVED SAMPLING SCHEDULE | | | | | |
|----------------------------------|-------------------|-----------------|-------------------|-----------------|-------------------|
| Location | Schedule | Location | Schedule | Location | Schedule |
| MW-1A | Annually | MW-11 | Annually | RW-4 | Plugged/Abandoned |
| MW-2 | Annually | MW-12 | Plugged/Abandoned | RW-5 | Quarterly |
| MW-3 | Plugged/Abandoned | MW-13 | Annually | RW-6 | Quarterly |
| MW-4 | Annually | MW-14 | Quarterly | RW-7 | Quarterly |
| MW-5 | Annually | MW-15 | Quarterly | RW-8 | Quarterly |
| MW-6 | Quarterly | MW-16 | Quarterly | RW-9 | Quarterly |
| MW-7 | Annually | | | RW-10 | Quarterly |
| MW-8 | Quarterly | RW-1 | Quarterly | RW-11 | Quarterly |
| MW-9 | Semi-Annually | RW-2 | Quarterly | RW-12 | Quarterly |
| MW-10 | Quarterly | RW-3 | Plugged/Abandoned | RW-13 | Quarterly |

Recently drilled monitoring /recovery wells (MW-3R, MW-12R, RW-3R, RW-4R, RW-14 and RW-15) are currently being monitored on a quarterly basis to establish consistent historical data regarding dissolved phase COCs and LNAPL thicknesses. These wells will be added to the NMOCD approved site sampling schedule following correspondence with the regulatory agency.

3. Groundwater Monitoring Activities

Quarterly groundwater monitoring event activities were conducted by GHD on March 2-5, June 1-5, August 10-14 and November 30-December 4, 2015. The Site is monitored with a network of 16 monitoring wells and 15 recovery wells. Wells were sampled in accordance with the sampling schedule referred to in Section 2.0. Wells containing measureable amounts of LNAPL (>0.01 feet) were not sampled. A Site Details Map is presented as Figure 2.

3.1 Groundwater Monitoring Methodology

Prior to purging wells, each well cap was removed to allow groundwater levels to stabilize and equilibrate. Static fluid levels were measured with an electric interface probe to the nearest

hundredth of a foot to obtain groundwater elevation data and assess for the presence of LNAPL. After recording fluid levels, wells not containing LNAPL were purged of three casing volumes of water and then groundwater samples, including duplicate samples, were collected using clean, disposable PVC bailers. Laboratory-supplied sample containers were then filled directly from the bailers. Collected samples were then placed on ice in insulated coolers and chilled to a temperature of approximately 4°C (40°F). The coolers were prepared for delivery and proper chain-of-custody documentation accompanied the samples to Trace Analysis, Inc. in Midland, Texas for analysis of benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA Method 8021B. In addition, during the late November and early December sampling event, four wells (MW-3R, MW-12R, RW-14 and RW-15) were analyzed for Polycyclic Aromatic Hydrocarbons (PAH) by EPA Method 8270D.

3.2 Groundwater Monitoring Results

All depth to groundwater measurements were recorded from the top of casing (TOC) of each well. The gauging data presented below represents corrected calculated groundwater elevations using a specific gravity of 0.81 for wells with measurable amounts of LNAPL and the elevation data obtained from professional surveying activities. Groundwater gauging data collected by GHD during the March, June, August and November/December 2015 groundwater monitoring events are presented in Table 1. Groundwater gradient maps for March, June, August and November/December are provided as Figures 3, 5, 7 and 9, respectively.

Corrected groundwater elevations ranged from 3,726.84 feet (MW-15) to 3,729.96 feet (MW-13) in March; from 3,726.31 feet (MW-14) to 3,730.01 feet (MW-13) in June; from 3,726.49 feet (MW-15) to 3,727.36 feet (MW-5) in August; and from 3,726.26 feet (MW-15) to 3,727.33 feet (MW-5) in November/December. Monitoring wells MW-2, MW-4, MW-6, MW-7, MW-8, MW-10, MW-13 and recovery well RW-6 were gauged dry throughout the four quarterly events of 2015. Additionally, RW-5 was gauged dry during in the second quarterly event and remained dry throughout the rest of 2015. MW-11 was gauged dry during the third quarterly event and remained dry throughout the rest of 2015. The groundwater flow direction is towards the east-southeast and is consistent with historical data. The average groundwater gradient determined for the Site from the groundwater monitoring events was approximately 0.001 foot/foot. Pertinent well gauging data indicated a decline in the elevation of the potentiometric surface for 2015. The average decline was 0.19 foot per quarter. Based on the average decline calculated for each quarter, the total decline for 2015 was 0.76 foot.

LNAPL was encountered in eleven wells (RW-1, RW-2, RW-3R, RW-4R, RW-7, RW-8, RW-9, RW-10, RW-11, RW-12 and RW-13) during all groundwater monitoring events and were not purged and sampled for BTEX. LNAPL thicknesses ranged from 0.06 foot (RW-7) to 4.65 feet (RW-3R) in March, from 0.08 foot (RW-12) to 1.94 feet (RW-3R) in June, from 0.01 foot (RW-12 and RW-13) to 1.69 feet (RW-8) in August and from 0.01 foot (RW-12) to 3.43 feet (RW-3R) in November/December. For 2015, the following wells exhibited an average decrease in LNAPL thickness when compared to their 2014 average LNAPL thickness: RW-1 (0.90 foot); RW-2 (0.55 foot); RW-7 (0.01 foot); RW-9 (0.79 foot); RW-10 (1.71 feet); RW-11 (2.19 feet); RW-12 (0.05 foot); and RW-13 (0.14 foot). RW-8 exhibited an average increase of 0.52 foot in LNAPL thickness when compared to its 2014 average LNAPL thickness. LNAPL gauging data collected during quarterly monitoring events for each well was used to calculate the yearly average thickness. RW-3R and RW-4, drilled and installed in October 2014, had respective average thicknesses of 2.91 feet and 1.45 feet for 2015.

During the March groundwater monitoring event, eight wells (MW-3R, MW-12R, MW-14, MW-15, MW-16, RW-5, RW-14 and RW-15) were sampled of which RW-14 and RW-15 detected benzene concentrations above the NMWQCC Standard (0.01 mg/L) for benzene. During the June groundwater monitoring event, seven wells (MW-3R, MW-9, MW-12R, MW-14, MW-15, MW-16 and RW-15) were sampled of which RW-15 detected benzene concentrations above the NMWQCC Standard for benzene. During the August groundwater monitoring event, seven wells (MW-3R, MW-12R, MW-14, MW-15, MW-16, RW-14 and RW-15) were sampled of which one well RW-15 detected benzene concentrations above the NMWQCC Standard for benzene. In addition, RW-15 had a total xylene concentration above the NMWQCC Standard (0.62 mg/L) for total xylenes. During the November/December groundwater monitoring event seven wells (MW-3R, MW-12R, MW-14, MW-15, MW-16, RW-14 and RW-15) were sampled of which RW-14 and RW-15 exhibited a benzene concentration above the NMWQCC Standard for benzene. No other BTEX constituents were detected above the NMWQCC standards.

Bi-weekly (every two weeks) hand bailing of MW-12R, RW-14 and RW-15 was initiated in the second quarter of 2015 to reduce the concentrations of BTEX constituents in these wells. The benzene concentration in RW-14 decreased from 0.0756 mg/kg in the first quarter to below laboratory detection limits in the third quarter, before increasing again to 0.0217 mg/kg in the fourth quarter of 2015. RW-14 was not sampled in the second quarter of 2015. The benzene concentration in RW-15 increased throughout 2015 from 0.0262 mg/kg in March 2015 to 0.413 mg/kg in November/December 2015. Monitor well MW-12R consistently had benzene and toluene concentrations below laboratory detection limits, but detectable concentrations of ethylbenzene and xylenes were exhibited during the second and fourth quarterly sampling events. Groundwater BTEX analytical results are summarized in Table 2. LNAPL Thickness and Groundwater BTEX concentration maps for the March, June, August and November/December 2015 groundwater monitoring events are presented as Figures 4, 6, 8 and 10, respectively.

During the November/December groundwater monitoring event, samples for polycyclic aromatic hydrocarbons (PAH) were collected from MW-3R, MW-12R, RW-14 and RW-15. Analytical laboratory results for these wells indicated the wells did not contain any constituents that exceeded the NMWQCC Standards. Recovery well RW-15 had detectable concentrations of fluorine, phenanthrene, naphthalene, 1-Methylnaphthalene, 2-Methylnaphthalene and dibenzofuran. Monitoring well MW-12R and recovery well RW-14 have had all PAH constituents below laboratory detection limits for two consecutive years and these wells will be removed from the sampling list for 2016. The historic data on the PAH results are summarized in Table 3.

A color-coded table highlighting PSH, Benzene and Clean Wells is presented as Table 4. Copies of the certified laboratory reports and chain-of-custody documentation are attached in Appendix A.

4. Corrective Action

For 2015, monitoring/recovery wells gauged with LNAPL had the LNAPL removed using a trailer mounted automated groundwater remediation system, pneumatic product only skimmer pumps and manual methods via bi-weekly (every two weeks) hand bailing as part of the LNAPL abatement program for the Site. RW-1, RW-2, RW-3R, RW-4R, RW-5, RW-6, RW-7, RW-8, RW-9, RW-10, RW-11, RW-12 and RW-13 were the wells targeted for LNAPL Abatement.

A trailer mounted automated groundwater remediation system was operated at the Site for a total of 53 days during 2015. The system operated at the Site for 41 days during the first quarter and for 12 days during the second quarter. Total fluid pumps driven by compressed air in conjunction with vapor extraction were utilized for LNAPL recovery and groundwater remediation. Throughout the first and second quarters of 2015 the trailer mounted system was moved and operated at other sites. When moved to the Site, the system operated for a cycle of 4 weeks with four pumps installed into four of the six targeted recovery wells. After 2 weeks, and in an effort to maximize LNAPL abatement, two pumps were rotated into the two remaining wells for another 4 weeks of operation. During April, the remediation system was permanently stationed at another project site for the rest of 2015. RW-1, RW-2, RW-3R, RW-8, RW-10 and RW-11 were the wells targeted for LNAPL recovery and groundwater remediation. To maintain the most efficient product recovery system possible, GHD personnel mobilized to the Site twice a week to perform operation and maintenance (O&M) of the automated remediation system. O&M of the remediation trailer/system included wellhead and flowline inspections, maintenance of the compressor (i.e. oil changes, drain water) and total fluid pumps (i.e. cleaning, repairs), gauging of fluid recovered in the Site's storage tank and any other required "housekeeping" tasks. Periodically and as needed, GHD personnel adjusted the total fluid pumps' depth intervals in the wells as an effort to increase LNAPL recovery. The cumulative LNAPL recovered by the remediation system during 2015 was 55.1 gallons (1.31 bbls).

During the first quarter of 2015 and when the remediation system was moved and operated at other project locations, pneumatic product only skimmer pumps were installed in four of the six target wells (RW-1, RW-2, RW-3R, RW-8, RW-10 and RW-11) to maintain product recovery. In April and after the trailer mounted remediation system was permanently moved to another project location LNAPL recovery continued via pneumatic product only skimmer pumps in the same six target wells. Periodically and in an effort to maximize LNAPL abatement, two skimmer pumps were rotated into the two remaining wells. The cumulative LNAPL recovered by the skimmer pumps during 2015 was 124.2 gallons (2.96 bbls).

Monitoring and recovery wells which exhibited LNAPL, but were not part of the automated remediation system had LNAPL removed bi-weekly (every two weeks) via manual hand bailing. The cumulative total of LNAPL recovered via hand bailing in 2015 was 71.6 gallons (1.70 bbls).

The 2015 abatement program recovered approximately 250.9 gallons (6.0 barrels) of product. Approximately 17,268 gallons (411 barrels) of product have been recovered since the start of the product abatement program in 2001.

All fluid recovered from purging, sampling, remediation system operation, skimmer pump operation, BTEX and LNAPL abatement were transferred to a storage tank and later disposed of at a licensed disposal facility.

5. **Summary of Findings**

Based on groundwater assessment, monitoring and remedial activities performed by GHD at the Site in 2015, the following summary of findings is presented:

- Currently, the Site is monitored with a network of 16 groundwater monitoring wells (MW-1A, MW-2, MW-3R, MW-4 through MW-11, MW-12R, and MW-13 through MW-16) and 15 product recovery wells (RW-1, RW-2, RW-3R, RW-4R and RW-5 through RW-15);

- The trailer mounted automated groundwater remediation system was operational at the Site for a total of 53 days in 2015. The system operated at the Site for 41 days during the first quarter and for 12 days during the second quarter. The system was permanently moved to another project site during April 2015. MW-4, RW-1, RW-2, RW-3R, RW-10 and RW-11 were the wells targeted for LNAPL recovery and groundwater remediation;
- Weekly O&M on the trailer mounted automated groundwater remediation system, ancillary equipment, flowlines and wellheads was performed while operating at the Site;
- During April 2015, LNAPL recovery was conducted with a skimmer/Xitech product only pump system. The targeted wells for the skimmer pump system were RW-1, RW-2, RW-3R, RW-8, RW-10, and RW-11;
- Corrected groundwater elevations ranged from 3,726.84 feet to 3,729.96 feet in March, from 3,726.31 feet to 3,730.01 feet in June, from 3,726.49 feet to 3,727.36 feet in August and from 3,726.26 feet to 3,727.33 feet in November/December;
- LNAPL was encountered in 11 wells (RW-1, RW-2, MW-3R, MW-4R, RW-7, RW-8, RW-9, RW-10, RW-11, RW-12 and RW-13) during all groundwater monitoring events and were not purged and sampled for BTEX. LNAPL thicknesses ranged from 0.06 foot to 4.65 feet in March, from 0.08 foot to 1.94 feet in June, from 0.01 foot to 1.69 feet in August and from 0.01 foot to 3.43 feet in November/December;
- For 2015 the following wells RW-1, RW-2, RW-7, RW-9, RW-10, RW-11, RW-12 and RW-13 exhibited an average decrease in LNAPL thickness when compared to their 2014 average LNAPL thickness: RW-1 (0.90 foot); RW-2 (0.55 foot); RW-7 (0.01 foot); RW-9 (0.79 foot); RW-10 (1.71 feet); RW-11 (2.19 feet); RW-12 (0.05 foot); and RW-13 (0.14 foot);
- RW-8 exhibited an average increase of 0.52 foot in LNAPL thickness when compared to its 2014 average LNAPL thickness;
- During the March groundwater monitoring event, eight wells (MW-3R, MW-12R, MW-14, MW-15, MW-16, RW-5, RW-14 and RW-15) were sampled of which RW-14 and RW-15 detected benzene concentrations above the NMWQCC Standard (0.01 mg/L) for benzene;
- During the June groundwater monitoring event, seven wells (MW-3R, MW-9, MW-12R, MW-14, MW-15, MW-16 and RW-15) were sampled of which RW-15 detected benzene concentrations above the NMWQCC Standard for benzene;
- During the August groundwater monitoring event, seven wells (MW-3R, MW-12R, MW-14, MW-15, MW-16, RW-14 and RW-15) were sampled of which RW-15 detected benzene and total xylene concentrations above the NMWQCC Standard for both constituents;
- During the November/December groundwater monitoring event, seven wells (MW-3R, MW-12R, MW-14, MW-15, MW-16, RW-14 and RW-15) were sampled of which RW-14 and RW-15 exhibited a benzene concentration above the NMWQCC Standard for benzene;
- The benzene concentration in RW-14 had an overall decrease through 2015 (0.0756 mg/L in March 2015 to 0.0217 mg/L in November/December 2015);
- The benzene concentration in RW-15 had an overall increase through 2015 (0.0262 mg/L in March 2015 to 0.413 mg/L in November/December 2015);
- Bi-weekly (every two weeks) hand bailing to reduce BTEX constituent concentrations in MW-12R, RW-14 and RW-15 was initiated in the second quarter of 2015;

- Polycyclic Aromatic Hydrocarbons (PAH) samples were collected from MW-3R, MW-12R, RW-14 and RW-15 in November 2015. Analytical laboratory results for all four wells indicated the wells did not contain any constituents that exceeded the NMWQCC Standards;
- Monitoring wells MW-2, MW-4, MW-6, MW-7, MW-8, MW-10, MW-13 and recovery well RW-6 were dry throughout 2015. Additionally, RW-5 was gauged dry during the second quarterly sampling event and remained dry throughout the rest of 2015. MW-11 was gauged dry during the third quarterly sampling event and remained dry throughout the rest 2015;
- The Site's groundwater flow direction is to the east-southeast and is consistent with historical data. The average groundwater gradient determined at the Site from the 2015 groundwater monitoring events was approximately 0.001 foot/foot;
- Pertinent well gauging data indicated a decline in the elevation of the potentiometric surface for 2014. The average decline was 0.19 foot per quarter. The total of the average decline for the four quarters of 2015 was 0.76 foot;
- Wells which contained measurable LNAPL, but were not a part of the automated remediation system or pneumatic skimmer pump LNAPL recovery program were hand bailed bi-weekly (every two weeks); and
- The 2015 abatement program recovered approximately 250.9 gallons (6.0 barrels) of product. Approximately 17,268 gallons (411 barrels) of product have been recovered since the start of the product abatement program in 2001.

6. Recommendations

Based upon the data and conclusions presented in this report, the following is recommended for 2016:

- Continue quarterly groundwater monitoring events with annual reporting to the NMOCD. Each event to include monitoring and recovery well gauging, sampling groundwater for BTEX and annual sampling of all applicable wells for the fourth quarterly event;
- Continue annual sampling for Polycyclic Aromatic Hydrocarbons (PAH). Wells sampled during the 2015 annual event and wells that previously contained LNAPL, but the thickness has decreased to <0.01 foot, will be scheduled for sampling during the fourth quarterly monitoring event;
- Continue bi-weekly (every two weeks) hand bailing of RW-14 and RW-15 to decrease benzene concentrations;
- Continue bi-weekly (every two weeks) LNAPL abatement on monitoring and recovery wells which were gauged with LNAPL but are not wells targeted for the pneumatic product only skimmer pump system;
- Continue operating the pneumatic product only skimmer pump system on four of the six targeted wells for 2 weeks with pump rotation into the two remaining after 2 weeks of operation. RW-1, RW-2, RW-3R, RW-8, RW-10 and RW-11 are the wells targeted for LNAPL recovery via the product only skimmer pump system;

- Communicate/correspond with the NMOCD for approval to add new wells (MW-3R, MW-12R, RW-3R, RW-4R, RW-14 and RW-15) and remove plugged and abandoned wells (MW-3, MW-12 and RW-3) to the previously approved sampling schedule presented in Section 2.0.; and
- Complete plugging and abandoning of MW-4, MW-8, MW-10, RW-5 and RW-6 and complete drilling, construction and developing of MW-4R, MW-8R, MW-10R and RW-5R. NMOCD approval was granted on October 2, 2015. In addition, seek approval to reduce the groundwater sampling schedule for MW-14 to semi-annually and reduce the groundwater sampling schedule for MW-15 and MW-16 to annually. The requested reduction in sampling schedule for the aforementioned wells is based on at least 5 years of analytical results depicting the wells as being below the detection limit for all BTEX constituents.

All of which is Respectfully Submitted,

GHD

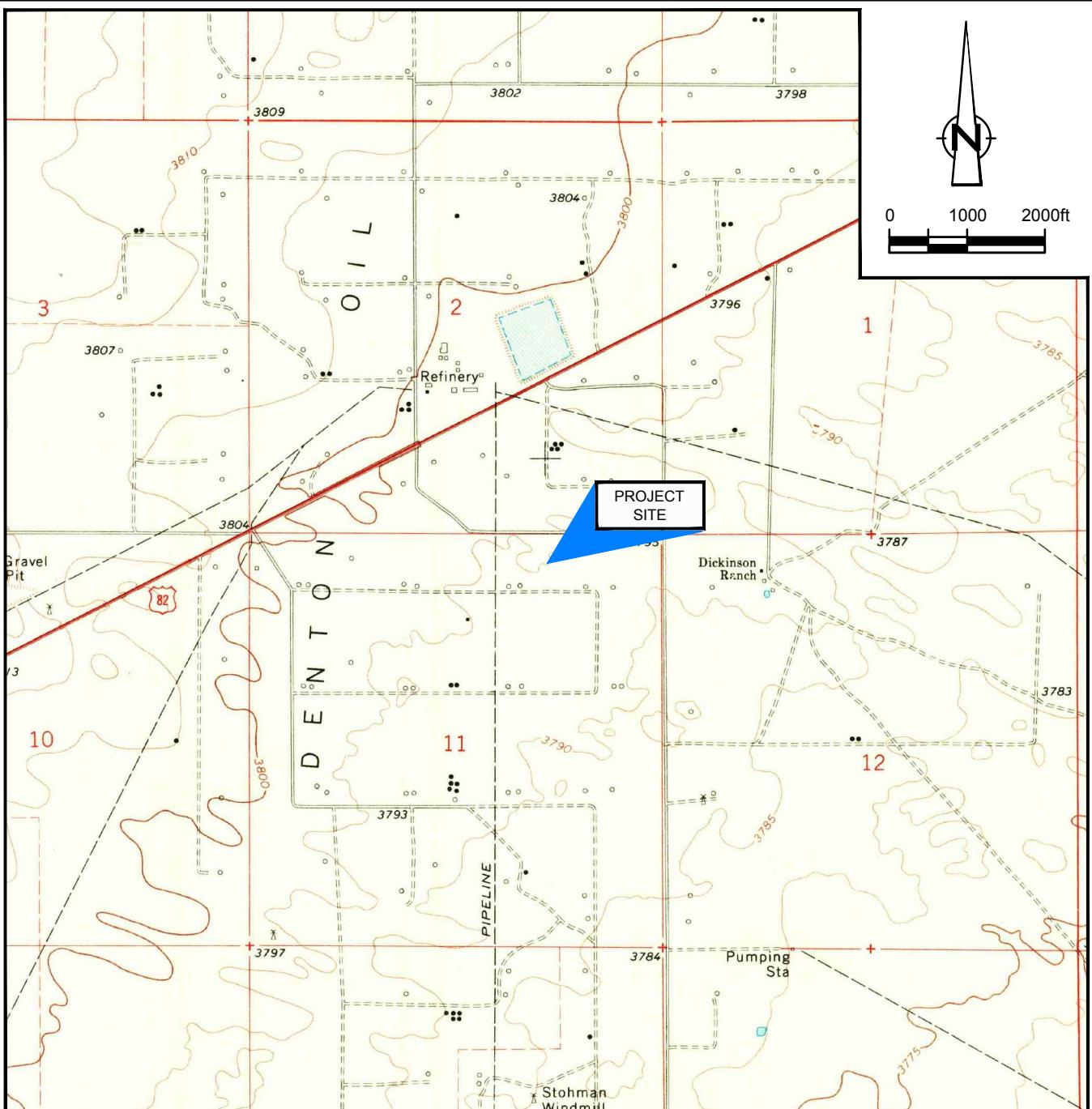


John Fergerson
Senior Project Manager



Thomas C. Larson
Principal, Midland Operations Manager

Figures



SOURCE: USGS 7.5 MINUTE QUAD
"PRAIRIEVIEW, NEW MEXICO"

LAT/LONG: 33.0264° NORTH, 103.1667° WEST
COORDINATE: NAD83 DATUM, U.S. FOOT
STATE PLANE ZONE - NEW MEXICO EAST

Figure 1
SITE LOCATION MAP
DARR ANGELL No.4
LEA COUNTY, NEW MEXICO
Plains Pipeline L.P.



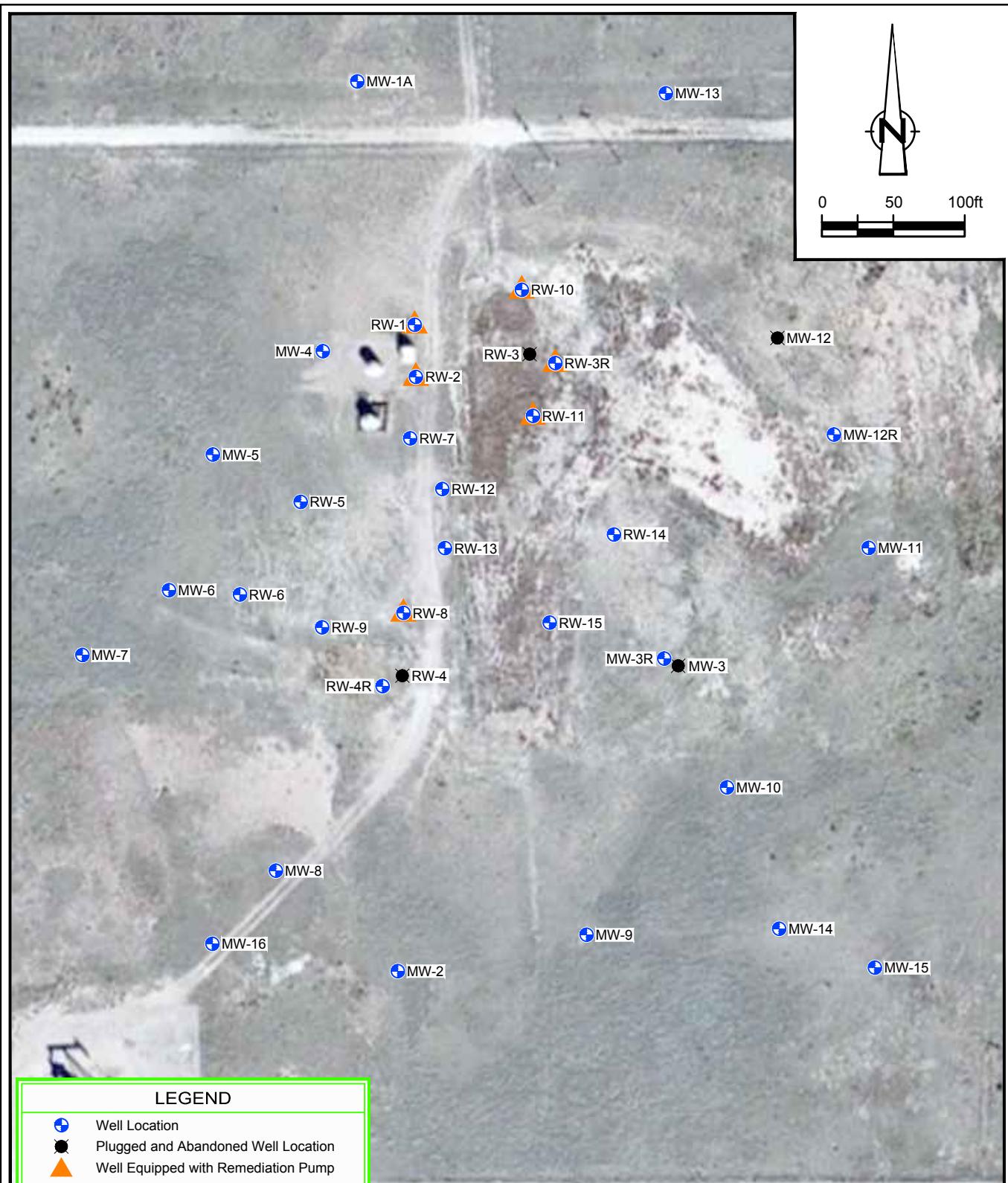


Figure 2
SITE DETAILS MAP
DARR ANGELL No.4
LEA COUNTY, NEW MEXICO
Plains Pipeline L.P.



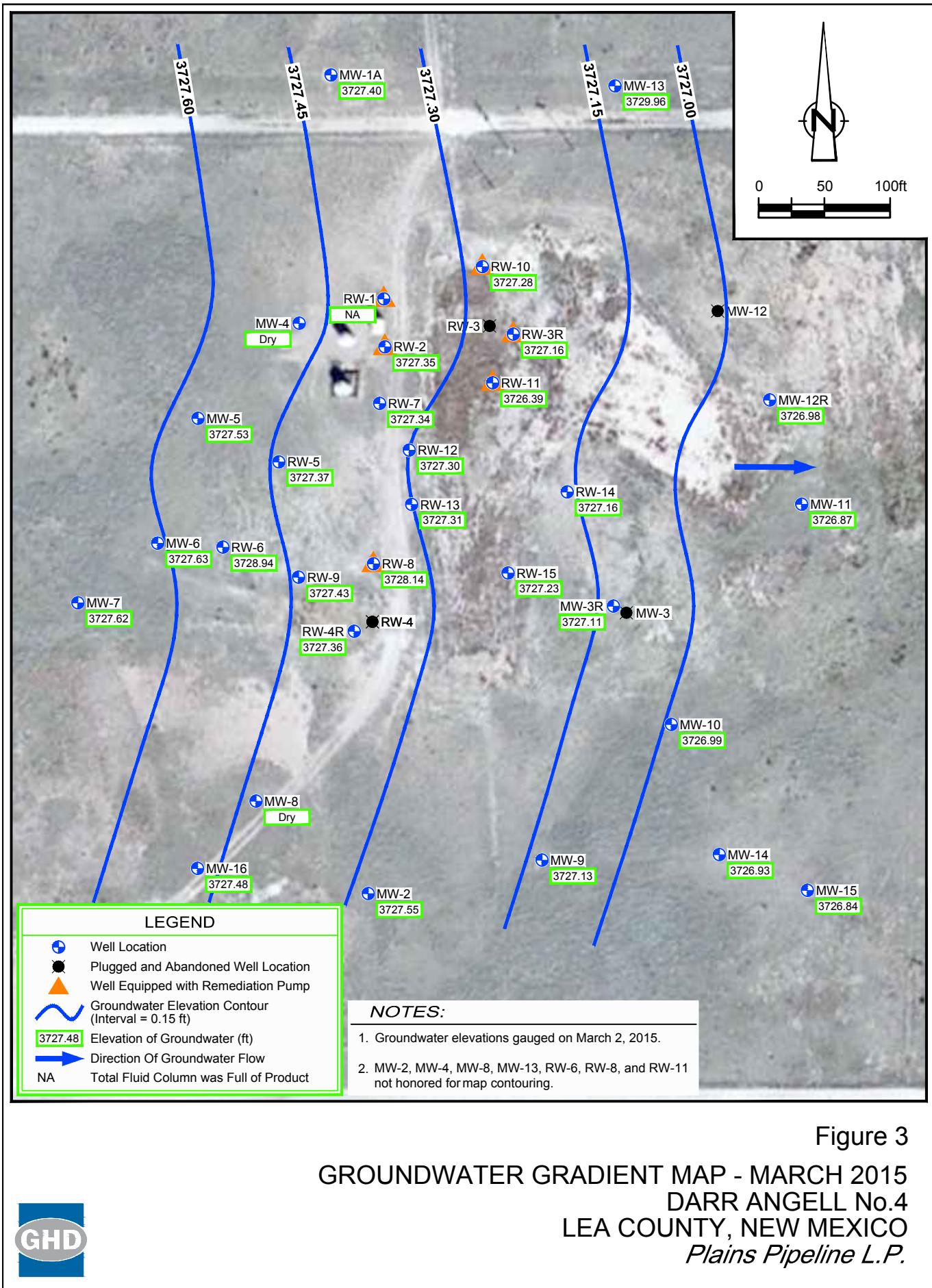


Figure 3
GROUNDWATER GRADIENT MAP - MARCH 2015
DARR ANGELL No.4
LEA COUNTY, NEW MEXICO
Plains Pipeline L.P.



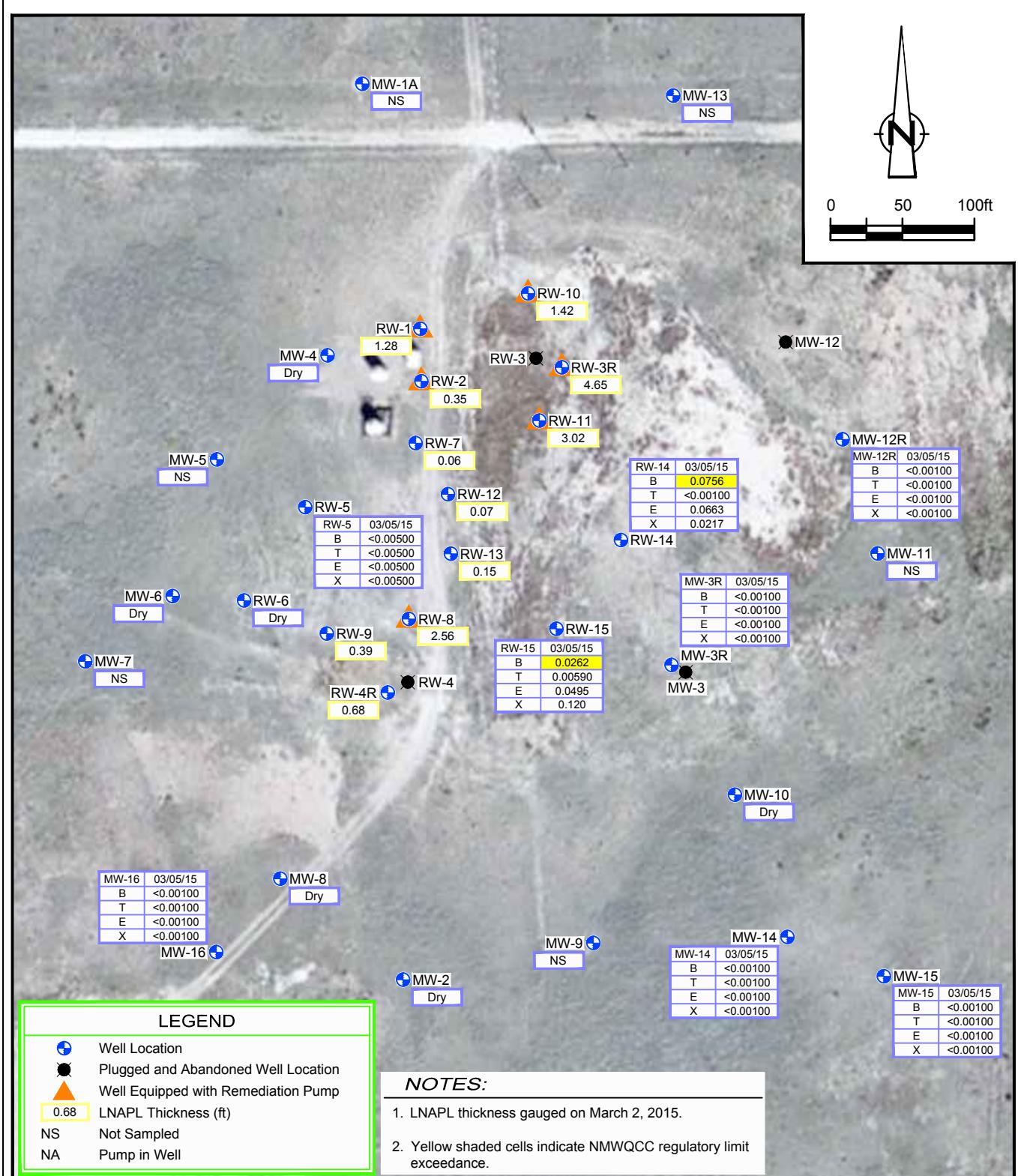
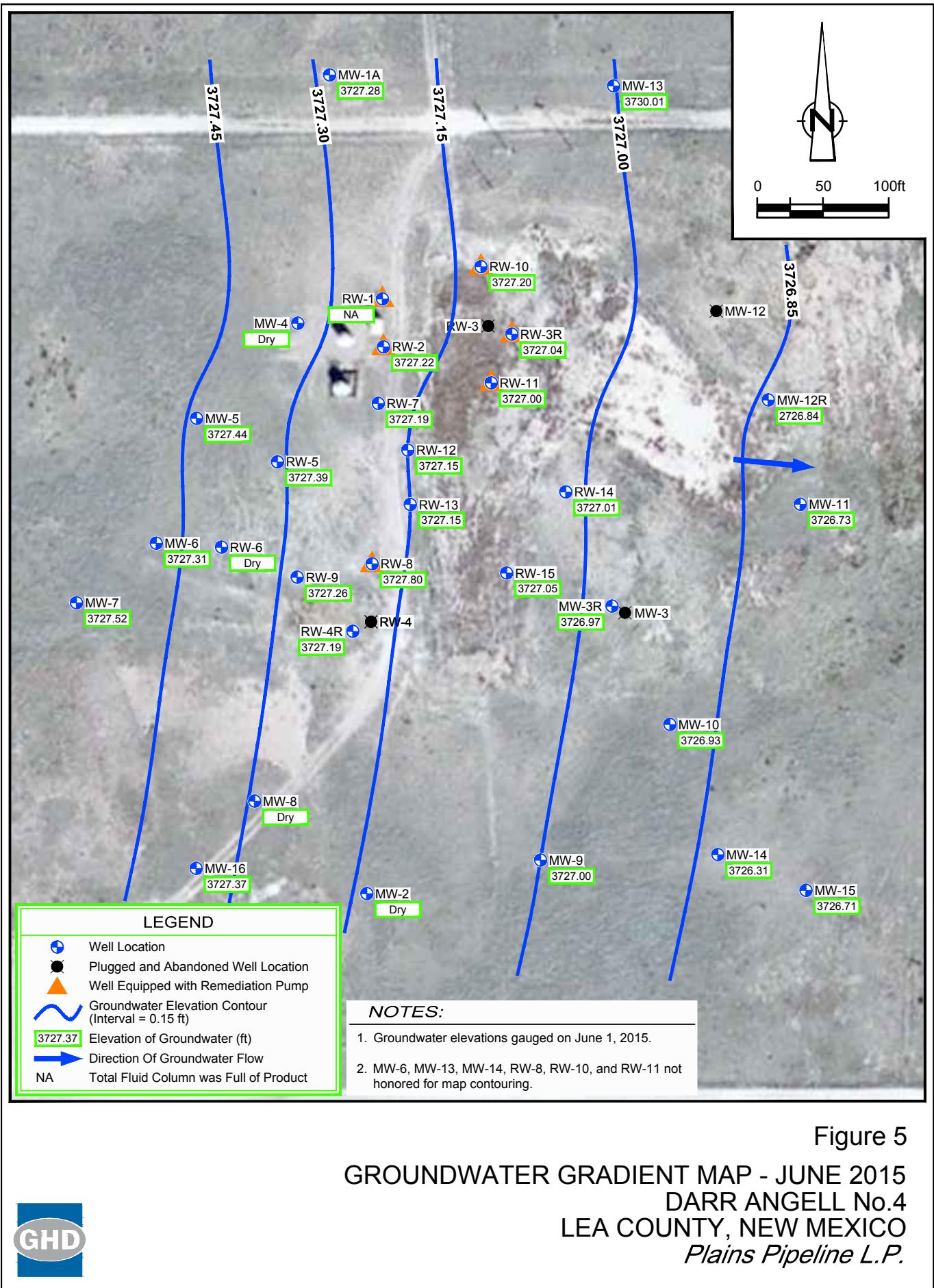
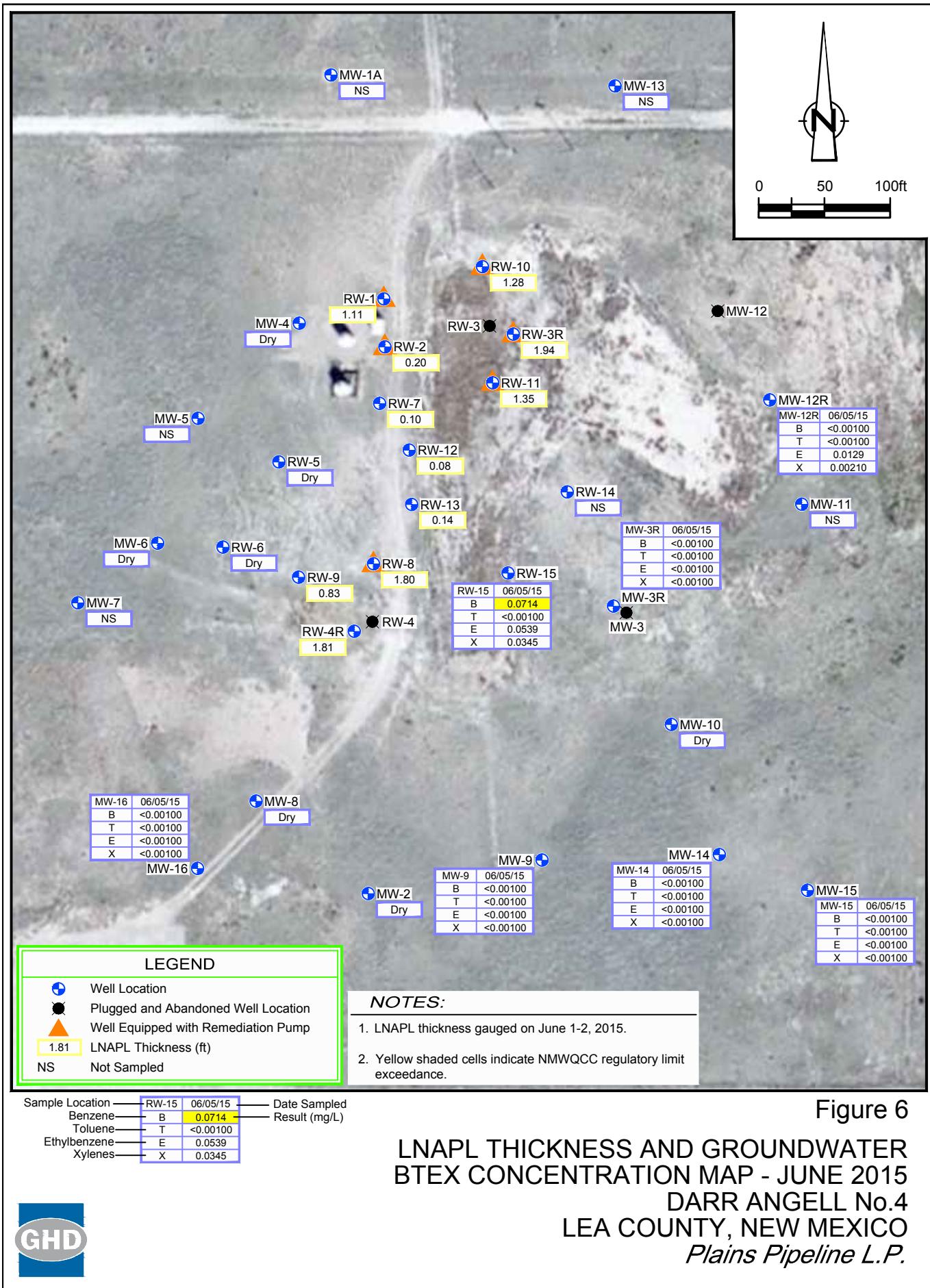


Figure 4

**BTEX CONCENTRATION MAP - MARCH 2015
LNAPL THICKNESS AND GROUNDWATER
DARR ANGELL No.4
LEA COUNTY, NEW MEXICO
Plains Pipeline L.P.**







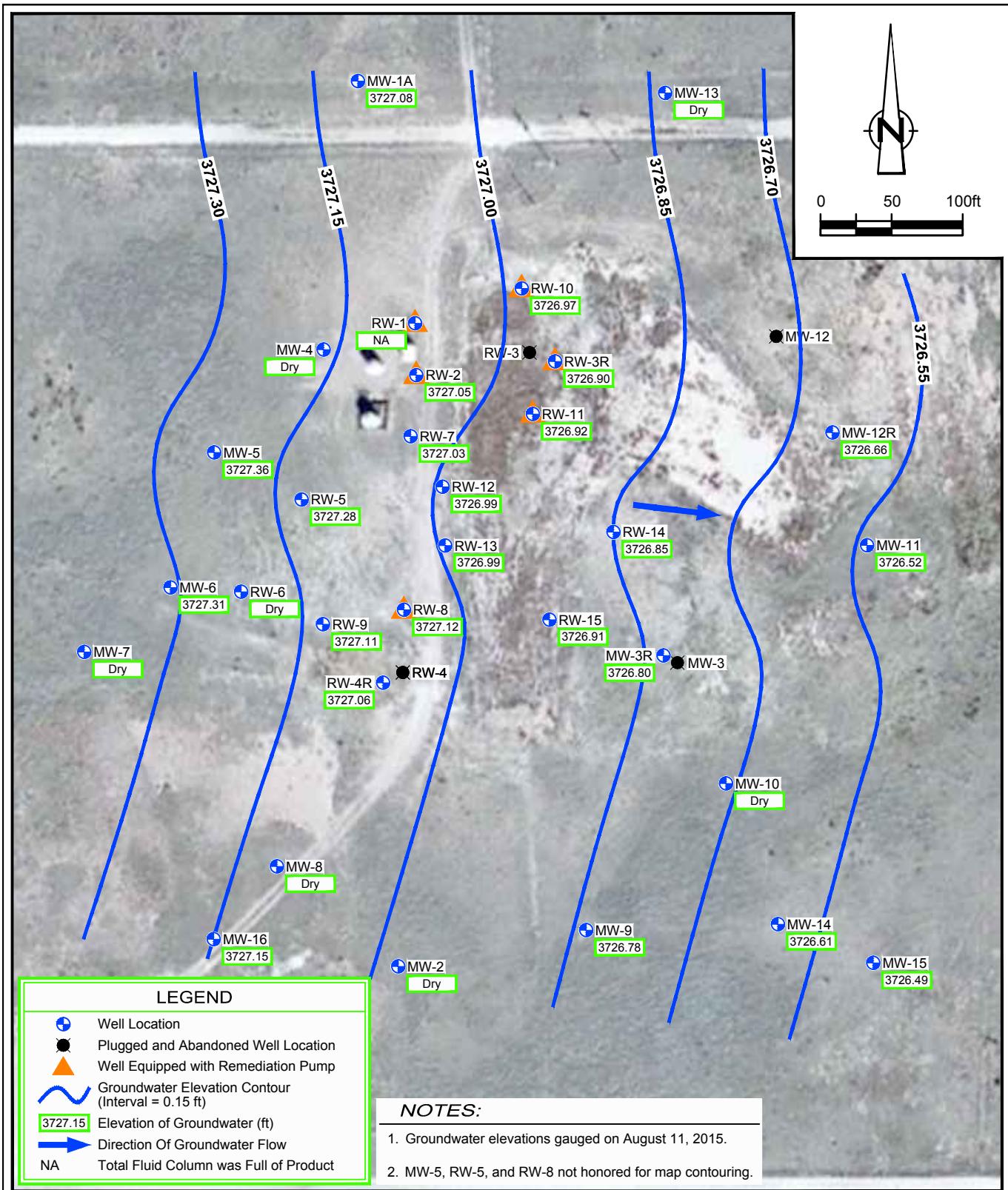
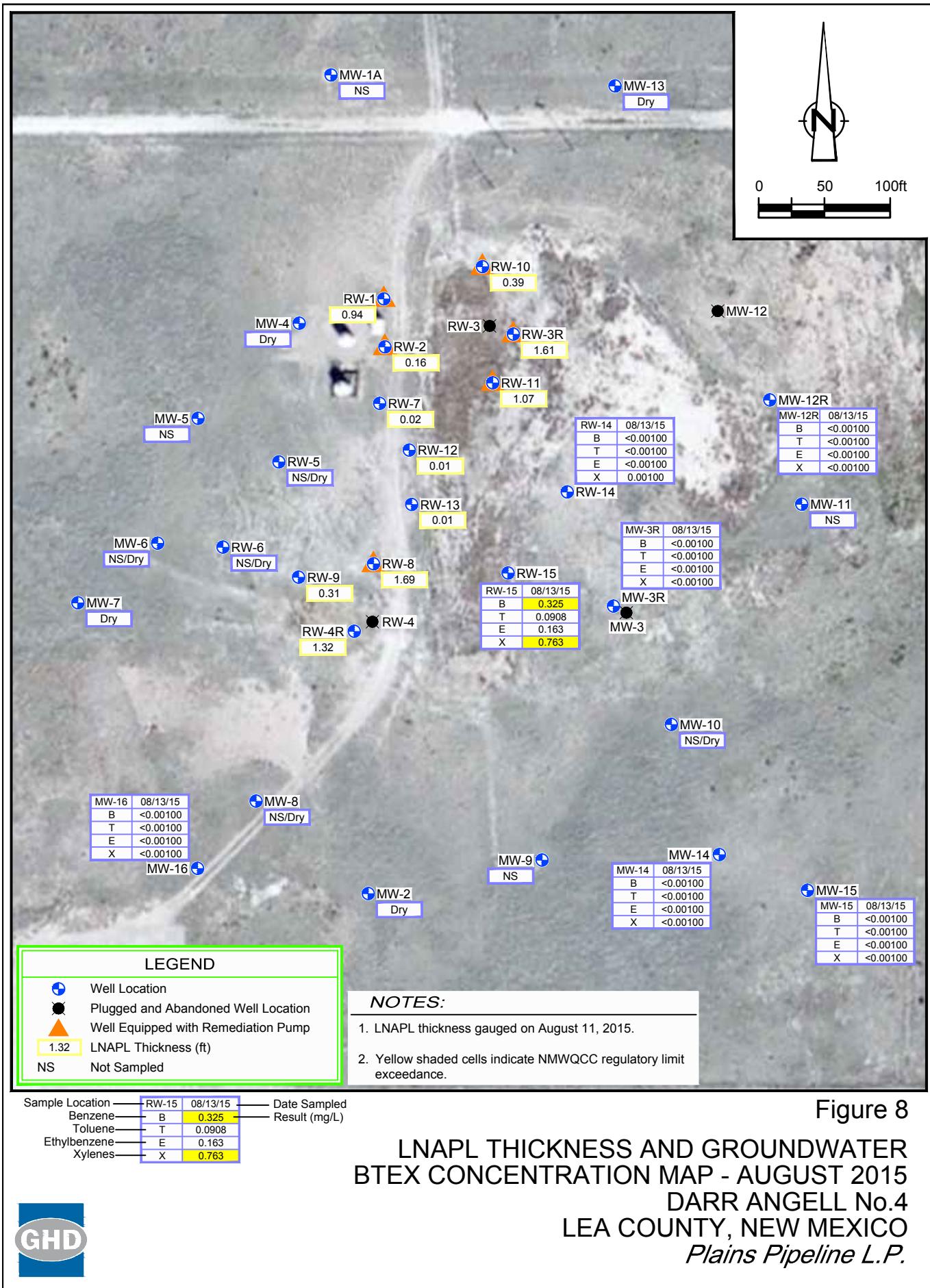


Figure 7
GROUNDWATER GRADIENT MAP - AUGUST 2015
DARR ANGELL No.4
LEA COUNTY, NEW MEXICO
Plains Pipeline L.P.





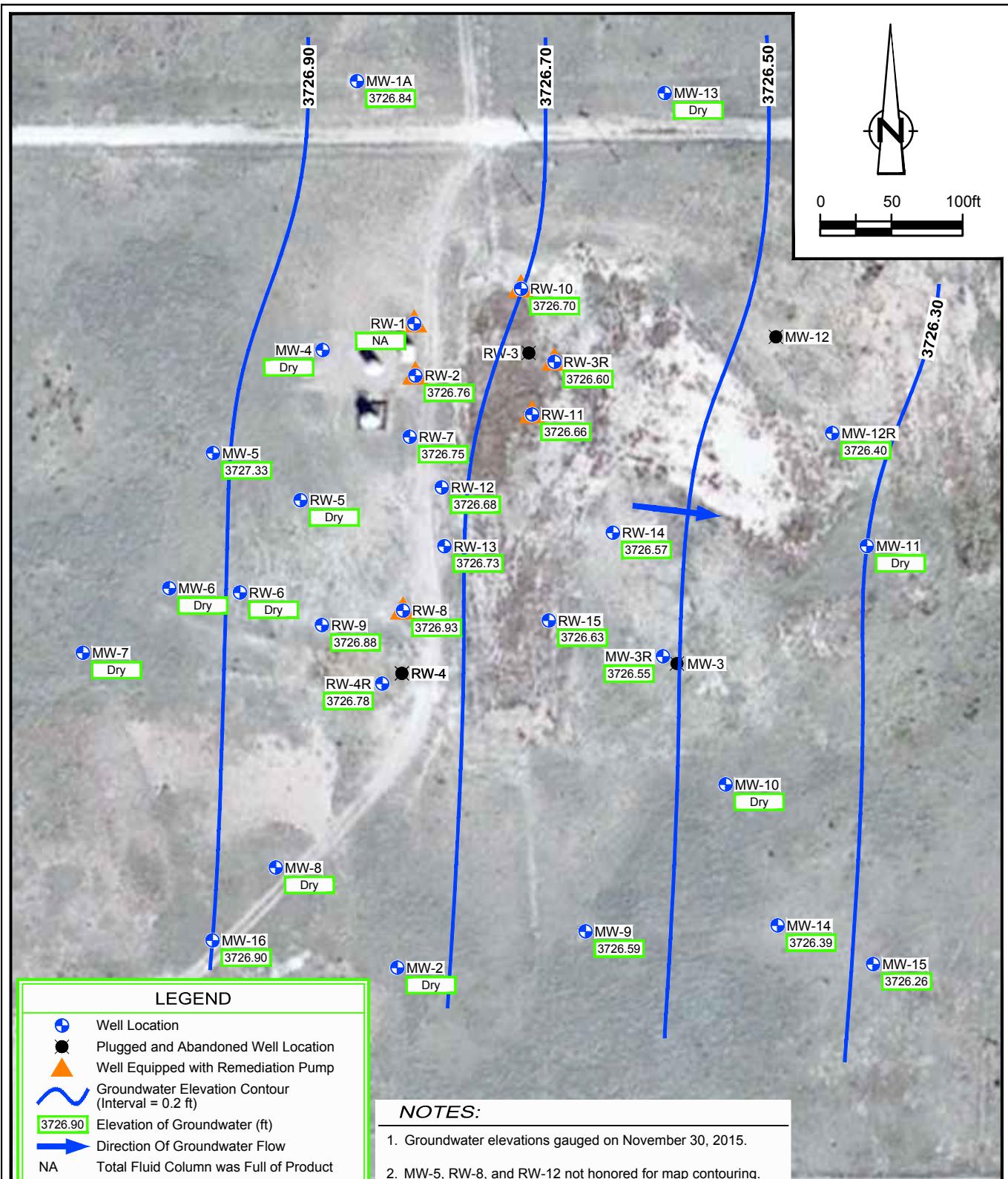
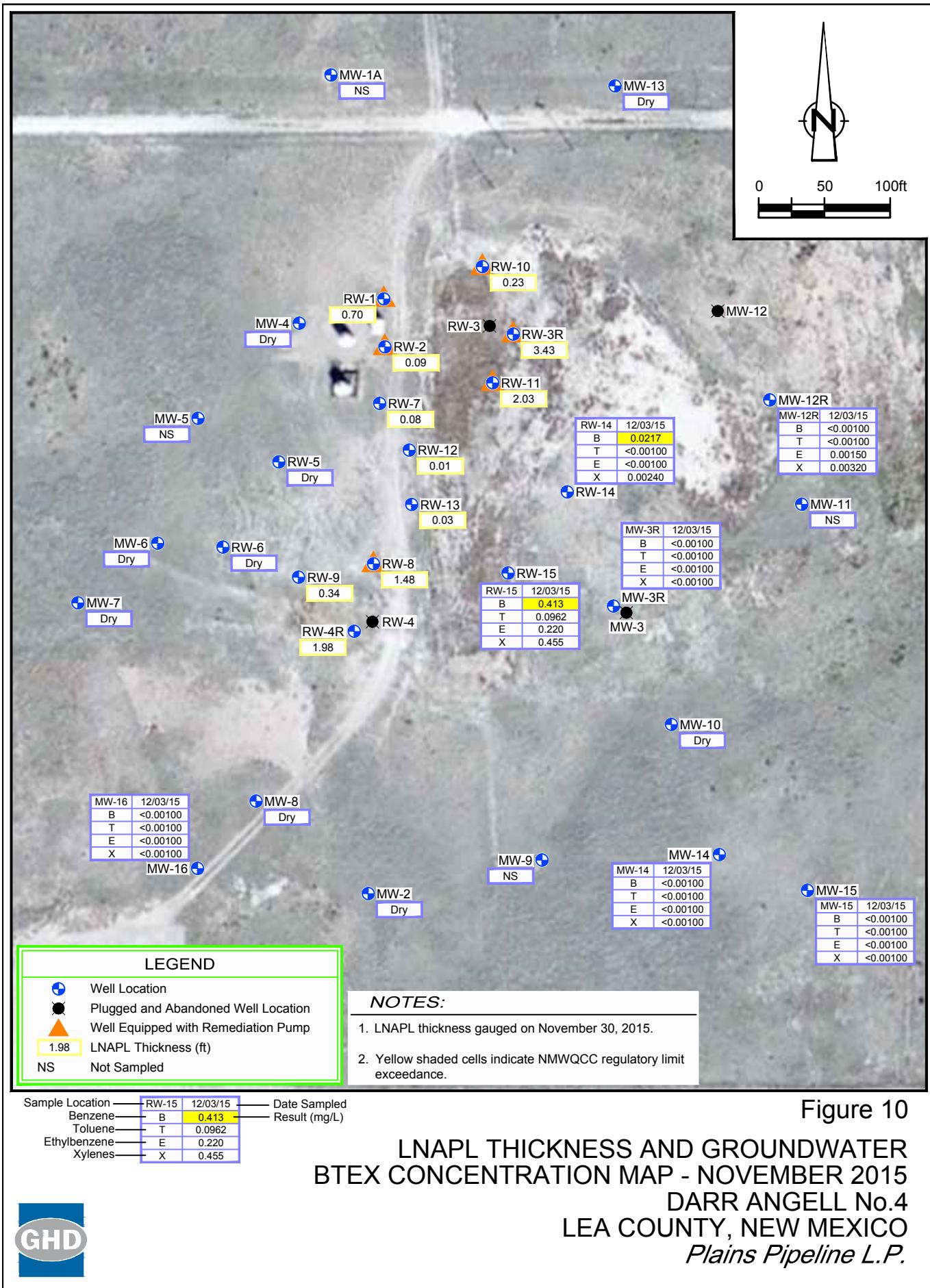


Figure 9

GROUNDWATER GRADIENT MAP - NOVEMBER 2015

DARR ANGELL No.4
LEA COUNTY, NEW MEXICO
Plains Pipeline L.P.





Tables

TABLE 1
GROUNDWATER GAUGING SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| Well ID TOC Elevation | Collection Date | Depth to Groundwater (ft TOC) | Depth to LNAPL (ft TOC) | LNAPL Thickness (ft) | Corrected Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) Well Size (in) |
|--|------------------------|--------------------------------------|--------------------------------|-----------------------------|---|----------------------------|---|
| MW-1A 3800.59 | 6/15/11 | 70.49 | --- | --- | --- | 74.12 | 40-65 |
| | 9/6/11 | 70.65 | --- | --- | --- | 74.14 | 2 |
| | 11/29/11 | 70.83 | --- | --- | --- | 74.15 | |
| | 3/5/12 | 70.97 | --- | --- | --- | 74.12 | |
| | 6/5/12 | 71.15 | --- | --- | --- | 74.15 | |
| | 9/10/12 | 71.33 | --- | --- | --- | 74.15 | |
| | 12/3/12 | 71.50 | --- | --- | --- | 74.20 | |
| | 3/4/13 | 71.66 | --- | --- | --- | 74.10 | |
| | 5/28/13 | 71.85 | --- | --- | --- | --- | |
| | 8/27/13 | 72.05 | --- | --- | --- | 74.18 | |
| | 11/12/13 | 72.17 | --- | --- | --- | 74.17 | |
| | 2/24/14 | 73.26 | --- | --- | --- | 74.15 | |
| | 5/27/14 | 72.58 | --- | --- | --- | 74.15 | |
| | 9/2/14 | 72.75 | --- | --- | --- | 74.15 | |
| | 11/18/14 | 72.95 | --- | --- | 3727.64 | 74.15 | Surveyed on 11/11/14 |
| | 3/2/15 | 73.19 | --- | --- | 3727.40 | 74.19 | |
| | 6/1/15 | 73.31 | --- | --- | 3727.28 | 74.19 | |
| | 8/11/15 | 73.51 | --- | --- | 3727.08 | 74.19 | |
| | 11/30/15 | 73.75 | --- | --- | 3726.84 | 74.19 | |
| MW-2 3796.33 | 6/15/11 | 66.33 | --- | --- | 3730.00 | 68.80 | 41-66 |
| | 9/6/11 | 66.53 | --- | --- | 3729.80 | 68.85 | 2 |
| | 11/29/11 | 66.70 | --- | --- | 3729.63 | 68.90 | |
| | 3/5/12 | 66.81 | --- | --- | 3729.52 | 68.93 | |
| | 6/5/12 | 66.97 | --- | --- | 3729.36 | 68.85 | |
| | 9/10/12 | 67.15 | --- | --- | 3729.18 | 68.85 | |
| | 12/3/12 | 67.30 | --- | --- | 3729.03 | 68.81 | |
| | 3/4/13 | 67.46 | --- | --- | 3728.87 | 68.76 | |
| | 5/28/13 | 67.65 | --- | --- | 3728.68 | --- | |
| | 8/27/13 | 67.84 | --- | --- | 3728.49 | 68.79 | |
| | 11/12/13 | | DRY | | | 68.80 | |
| | 2/25/14 | | DRY | | | 68.80 | |
| | 5/27/14 | 68.34 | --- | --- | 3727.99 | 68.80 | |
| | 9/2/14 | 68.55 | --- | --- | 3727.78 | 68.80 | |
| | 11/18/14 | | DRY | | | 68.80 | |
| | 3/2/15 | 68.78 | --- | --- | 3727.55 | 68.79 | |
| | 6/1/15 | | DRY | | | 68.79 | |
| | 8/11/15 | | DRY | | | 68.79 | |
| | 11/30/15 | | DRY | | | 68.79 | |
| MW-3 3798.10 | 6/15/11 | 68.39 | --- | --- | 3729.71 | 68.92 | 40-65 |
| | 9/6/11 | 68.55 | --- | --- | 3729.55 | 69.01 | 2 |
| | 11/29/11 | 68.72 | --- | --- | 3729.38 | 69.05 | |
| | 3/5/12 | 68.88 | --- | --- | 3729.22 | 69.08 | |
| | 6/5/12 | 68.95 | --- | --- | 3729.15 | 69.02 | |
| | 9/10/12 | | DRY | | | 68.93 | |
| | 12/3/12 | | DRY | | | 68.95 | |
| | 3/4/13 | | DRY | | | 69.04 | |
| | 5/28/13 | | DRY | | | 69.04 | |
| | 8/27/13 | | DRY | | | 69.04 | |
| | 11/12/13 | | DRY | | | 69.05 | |
| | 2/24/14 | | DRY | | | 69.05 | |
| | 5/27/14 | | DRY | | | 69.05 | |
| | 9/2/14 | | DRY | | | 69.05 | |
| | 10/15/14 | | | Plugged and Abandoned | | | |

TABLE 1
GROUNDWATER GAUGING SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| Well ID <i>TOC Elevation</i> | Collection Date | Depth to Groundwater (ft TOC) | Depth to LNAPL (ft TOC) | LNAPL Thickness (ft) | Corrected Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) <i>Well Size (in)</i> |
|--|----------------------------|--|--|-------------------------------------|---|------------------------------------|---|
| MW-3R 3797.80 | 11/18/14 | 74.25 | 69.77 | 4.48 | 3727.18 | 85.12 | Surveyed on 11/11/14 |
| | 3/2/15 | 70.69 | --- | --- | 3727.11 | 84.98 | |
| | 6/1/15 | 70.83 | --- | --- | 3726.97 | 84.98 | |
| | 8/11/15 | 71.00 | --- | --- | 3726.80 | 84.98 | |
| | 11/30/15 | 71.25 | --- | --- | 3726.55 | 84.98 | |
| MW-4 3797.73 | 6/15/11 | 67.65 | --- | --- | 3730.08 | 69.95 | 47-67 |
| | 9/6/11 | 67.82 | --- | --- | 3729.91 | 70.00 | 2 |
| | 11/29/11 | 68.00 | --- | --- | 3729.73 | 70.00 | |
| | 3/5/12 | 68.15 | --- | --- | 3729.58 | 70.00 | |
| | 6/5/12 | 68.32 | --- | --- | 3729.41 | 70.15 | |
| | 9/10/12 | 68.52 | --- | --- | 3729.21 | 70.11 | |
| | 12/3/12 | 68.61 | --- | --- | 3729.12 | --- | |
| | 3/4/13 | 68.82 | --- | --- | 3728.91 | 70.14 | |
| | 5/28/13 | 69.00 | --- | --- | 3728.73 | --- | |
| | 8/27/13 | 69.19 | --- | --- | 3728.54 | 70.04 | |
| | 11/12/13 | 69.33 | --- | --- | 3728.40 | 70.16 | |
| | 2/24/14 | 69.50 | --- | --- | 3728.23 | 70.15 | |
| | 5/27/14 | 69.71 | --- | --- | 3728.02 | 70.15 | |
| | 9/2/14 | 69.93 | --- | --- | 3727.80 | 70.15 | |
| | 11/18/14 | 70.06 | --- | --- | 3727.67 | 70.15 | |
| | 3/2/15 | | DRY | | | 70.12 | |
| | 6/2/15 | | DRY | | | 70.12 | |
| | 8/11/15 | | DRY | | | 70.12 | |
| | 11/30/15 | | DRY | | | 70.12 | |
| MW-5 3797.23 | 6/15/11 | 67.03 | --- | --- | 3730.20 | 70.00 | 47-67 |
| | 9/6/11 | 67.22 | --- | --- | 3730.01 | 70.07 | 2 |
| | 11/29/11 | 67.39 | --- | --- | 3729.84 | 70.10 | |
| | 3/5/12 | 67.55 | --- | --- | 3729.68 | 70.13 | |
| | 6/5/12 | 67.70 | --- | --- | 3729.53 | 70.06 | |
| | 9/10/12 | 67.87 | --- | --- | 3729.36 | 70.08 | |
| | 12/3/12 | 68.01 | --- | --- | 3729.22 | 70.15 | |
| | 3/4/13 | 68.22 | --- | --- | 3729.01 | 70.13 | |
| | 5/28/13 | 68.37 | --- | --- | 3728.86 | --- | |
| | 8/27/13 | 68.56 | --- | --- | 3728.67 | 70.14 | |
| | 11/12/13 | 68.71 | --- | --- | 3728.52 | 70.14 | |
| | 2/24/14 | 68.90 | --- | --- | 3728.33 | 70.14 | |
| | 5/27/14 | 69.08 | --- | --- | 3728.15 | 70.14 | |
| | 9/2/14 | 69.29 | --- | --- | 3727.94 | 70.14 | |
| | 11/18/14 | 69.48 | --- | --- | 3727.75 | 70.14 | |
| | 3/2/15 | 69.70 | --- | --- | 3727.53 | 70.02 | |
| | 6/1/15 | 69.79 | --- | --- | 3727.44 | 70.02 | |
| | 8/11/15 | 69.87 | --- | --- | 3727.36 | 70.02 | |
| | 11/30/15 | 69.90 | --- | --- | 3727.33 | 70.02 | |
| MW-6 3796.51 | 6/15/11 | 66.28 | --- | --- | 3730.23 | 69.20 | 47-67 |
| | 9/6/11 | 66.50 | --- | --- | 3730.01 | 69.23 | 2 |
| | 11/29/11 | 66.65 | --- | --- | 3729.86 | 70.32 | |
| | 3/5/12 | 66.79 | --- | --- | 3729.72 | 70.30 | |
| | 6/5/12 | 66.95 | --- | --- | 3729.56 | 69.75 | |
| | 9/10/12 | 67.17 | --- | --- | 3729.34 | 69.21 | |
| | 12/3/12 | 67.28 | --- | --- | 3729.23 | 69.22 | |
| | 3/4/13 | 67.44 | --- | --- | 3729.07 | 69.20 | |
| | 5/28/13 | 67.61 | --- | --- | 3728.90 | 69.22 | |

TABLE 1
GROUNDWATER GAUGING SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| Well ID <i>TOC Elevation</i> | Collection Date | Depth to Groundwater (ft TOC) | Depth to LNAPL (ft TOC) | LNAPL Thickness (ft) | Corrected Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) <i>Well Size (in)</i> |
|--|----------------------------|--|--|-------------------------------------|---|------------------------------------|---|
| MW-6 | 8/27/13 | 67.78 | --- | --- | 3728.73 | 69.22 | |
| | 11/12/13 | 67.96 | --- | --- | 3728.55 | 69.29 | |
| | 2/24/14 | 68.15 | --- | --- | 3728.36 | 69.25 | |
| | 5/27/14 | 68.31 | --- | --- | 3728.20 | 69.25 | |
| | 9/2/14 | 68.57 | --- | --- | 3727.94 | 69.25 | |
| | 11/18/14 | 68.71 | --- | --- | 3727.80 | 69.25 | |
| | 3/2/15 | 68.88 | --- | --- | 3727.63 | 69.27 | |
| | 6/1/15 | 69.20 | --- | --- | 3727.31 | 69.27 | |
| | 8/11/15 | 69.20 | --- | --- | 3727.31 | 69.27 | |
| | 11/30/15 | | DRY | | | 69.27 | |
| MW-7 3796.16 | 6/15/11 | 65.86 | --- | --- | 3730.30 | 68.73 | 47-67 |
| | 9/6/11 | 66.05 | --- | --- | 3730.11 | 67.75 | 2 |
| | 11/29/11 | 66.22 | --- | --- | 3729.94 | 68.80 | |
| | 3/5/12 | 66.34 | --- | --- | 3729.82 | 68.80 | |
| | 6/5/12 | 66.52 | --- | --- | 3729.64 | 68.85 | |
| | 9/10/12 | 66.72 | --- | --- | 3729.44 | 68.76 | |
| | 12/3/12 | 66.89 | --- | --- | 3729.27 | 68.81 | |
| | 3/4/13 | 67.05 | --- | --- | 3729.11 | 68.77 | |
| | 5/28/13 | | DRY | | | 68.80 | |
| | 8/27/13 | 67.39 | --- | --- | 3728.77 | 68.79 | |
| | 11/12/13 | 67.54 | --- | --- | 3728.62 | 68.81 | |
| | 2/24/14 | 67.72 | --- | --- | 3728.44 | 68.75 | |
| | 5/27/14 | 67.90 | --- | --- | 3728.26 | 68.75 | |
| | 9/3/14 | 68.14 | --- | --- | 3728.02 | 68.75 | |
| | 11/18/14 | 68.31 | --- | --- | 3727.85 | 68.75 | |
| | 3/2/15 | 68.54 | --- | --- | 3727.62 | 68.83 | |
| | 6/1/15 | 68.64 | --- | --- | 3727.52 | 68.83 | |
| | 8/11/15 | | DRY | | | 68.83 | |
| | 11/30/15 | | DRY | | | 68.83 | |
| MW-8 3795.89 | 6/15/11 | 65.82 | --- | --- | 3730.07 | 66.31 | 47-67 |
| | 9/6/11 | 66.02 | --- | --- | 3729.87 | 66.35 | 2 |
| | 11/29/11 | 66.20 | --- | --- | 3729.69 | 66.51 | |
| | 3/5/12 | 66.32 | 66.29 | 0.03 | 3729.59 | 66.55 | |
| | 6/5/12 | 66.50 | 66.46 | 0.04 | 3729.42 | 66.51 | |
| | 9/10/12 | | DRY | | | 66.50 | |
| | 12/3/12 | | DRY | | | 66.52 | |
| | 3/4/13 | | DRY | | | 66.53 | |
| | 5/28/13 | | DRY | | | 66.62 | |
| | 8/27/13 | | DRY | | | 66.64 | |
| | 11/12/13 | | DRY | | | 66.85 | |
| | 2/24/14 | | DRY | | | 66.65 | |
| | 5/27/14 | | DRY | | | 66.65 | |
| | 9/2/14 | | DRY | | | 66.65 | |
| | 11/18/14 | | DRY | | | 66.76 | |
| | 3/2/15 | | DRY | | | 66.76 | |
| | 6/1/15 | | DRY | | | 66.76 | |
| | 8/11/15 | | DRY | | | 66.76 | |
| | 11/30/15 | | DRY | | | 66.76 | |
| MW-9 3795.66 | 6/15/11 | 65.93 | --- | --- | 3729.73 | 69.18 | 47-67 |
| | 9/6/11 | 66.11 | --- | --- | 3729.55 | 69.22 | 2 |
| | 11/29/11 | 66.28 | --- | --- | 3729.38 | 69.24 | |
| | 3/5/12 | 66.41 | --- | --- | 3729.25 | 69.27 | |
| | 6/5/12 | 66.58 | --- | --- | 3729.08 | 69.70 | |

TABLE 1
GROUNDWATER GAUGING SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| Well ID <i>TOC Elevation</i> | Collection Date | Depth to Groundwater (ft TOC) | Depth to LNAPL (ft TOC) | LNAPL Thickness (ft) | Corrected Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) <i>Well Size (in)</i> |
|--|----------------------------|--|--|-------------------------------------|---|------------------------------------|---|
| MW-9 | 9/10/12 | 66.82 | --- | --- | 3728.84 | 69.31 | |
| | 12/3/12 | 66.93 | --- | --- | 3728.73 | 69.45 | |
| | 3/4/13 | 67.06 | --- | --- | 3728.60 | 69.30 | |
| | 5/28/13 | 67.24 | --- | --- | 3728.42 | 69.32 | |
| | 8/27/13 | 67.40 | --- | --- | 3728.26 | 68.40 | |
| | 11/12/13 | 67.55 | --- | --- | 3728.11 | 69.41 | |
| | 2/24/14 | 67.72 | --- | --- | 3727.94 | 69.40 | |
| | 5/27/14 | 67.92 | --- | --- | 3727.74 | 69.40 | |
| | 9/2/14 | 68.13 | --- | --- | 3727.53 | 69.40 | |
| | 11/18/14 | 68.30 | --- | --- | 3727.36 | 69.40 | |
| | 3/2/15 | 68.53 | --- | --- | 3727.13 | 69.48 | |
| | 6/2/15 | 68.66 | --- | --- | 3727.00 | 69.48 | |
| | 8/11/15 | 68.88 | --- | --- | 3726.78 | 69.48 | |
| | 11/30/15 | 69.07 | --- | --- | 3726.59 | 69.48 | |
| MW-10 3796.23 | 6/15/11 | 66.63 | --- | --- | 3729.60 | 69.20 | 47-67 |
| | 9/6/11 | 66.80 | --- | --- | 3729.43 | 69.28 | 2 |
| | 11/29/11 | 66.97 | --- | --- | 3729.26 | 70.40 | |
| | 3/5/12 | 67.11 | --- | --- | 3729.12 | 70.40 | |
| | 6/5/12 | 67.26 | --- | --- | 3728.97 | 69.40 | |
| | 9/10/12 | 66.51 | --- | --- | 3729.72 | 69.46 | |
| | 12/3/12 | 67.60 | --- | --- | 3728.63 | 69.55 | |
| | 3/4/13 | 67.78 | --- | --- | 3728.45 | 69.48 | |
| | 5/28/13 | 67.93 | --- | --- | 3728.30 | 69.45 | |
| | 8/27/13 | 68.11 | --- | --- | 3728.12 | 69.52 | |
| | 11/12/13 | 68.27 | --- | --- | 3727.96 | 69.56 | |
| | 2/24/14 | | DRY | | | 69.55 | |
| | 5/27/14 | 68.62 | --- | --- | 3727.61 | 69.55 | |
| | 9/3/14 | 68.82 | --- | --- | 3727.41 | 69.55 | |
| | 11/18/14 | 69.03 | --- | --- | 3727.20 | 69.55 | |
| | 3/2/15 | 69.24 | --- | --- | 3726.99 | 69.65 | |
| | 6/1/15 | 69.30 | --- | --- | 3726.93 | 69.56 | |
| | 8/11/15 | | DRY | | | 69.59 | |
| | 11/30/15 | | DRY | | | 69.65 | |
| MW-11 3796.58 | 6/15/11 | 67.11 | --- | --- | 3729.47 | 70.03 | 47-67 |
| | 9/6/11 | 67.28 | --- | --- | 3729.30 | 70.03 | 2 |
| | 11/29/11 | 67.45 | --- | --- | 3729.13 | 70.05 | |
| | 3/5/12 | 67.62 | --- | --- | 3728.96 | 70.08 | |
| | 6/5/12 | 67.76 | --- | --- | 3728.82 | 70.10 | |
| | 9/10/12 | 67.96 | --- | --- | 3728.62 | 70.11 | |
| | 12/3/12 | 68.10 | --- | --- | 3728.48 | 70.10 | |
| | 3/4/13 | 68.25 | --- | --- | 3728.33 | 70.06 | |
| | 5/28/13 | 68.42 | --- | --- | 3728.16 | --- | |
| | 8/27/13 | 68.59 | --- | --- | 3727.99 | 70.09 | |
| | 11/12/13 | 68.75 | --- | --- | 3727.83 | 70.14 | |
| | 2/24/14 | | DRY | | | 70.12 | |
| | 5/27/14 | 69.11 | --- | --- | 3727.47 | 70.12 | |
| | 9/2/14 | 69.31 | --- | --- | 3727.27 | 70.12 | |
| | 11/18/14 | 69.53 | --- | --- | 3727.05 | 70.12 | |
| | 3/2/15 | 69.71 | --- | --- | 3726.87 | 70.20 | |
| | 6/1/15 | 69.85 | --- | --- | 3726.73 | 70.20 | |
| | 8/11/15 | 70.06 | --- | --- | 3726.52 | 70.20 | |
| | 11/30/15 | | DRY | | | 70.20 | |

TABLE 1
GROUNDWATER GAUGING SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| Well ID <i>TOC Elevation</i> | Collection Date | Depth to Groundwater (ft TOC) | Depth to LNAPL (ft TOC) | LNAPL Thickness (ft) | Corrected Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) <i>Well Size (in)</i> |
|--|----------------------------|--|--|-------------------------------------|---|------------------------------------|---|
| MW-12 3798.03 | 6/15/11 | 68.39 | --- | --- | 3729.64 | 69.74 | 47-67 |
| | 9/6/11 | 68.55 | --- | --- | 3729.48 | 69.74 | 2 |
| | 11/29/11 | 68.73 | --- | --- | 3729.30 | 69.75 | |
| | 3/5/12 | 68.88 | --- | --- | 3729.15 | 69.78 | |
| | 6/5/12 | 69.04 | --- | --- | 3728.99 | 69.70 | |
| | 9/10/12 | 69.20 | --- | --- | 3728.83 | 69.71 | |
| | 12/3/12 | | DRY | | | 69.77 | |
| | 3/4/13 | 69.54 | --- | --- | 3728.49 | 69.63 | |
| | 5/28/13 | | DRY | | | 69.60 | |
| | 8/27/13 | | DRY | | | 69.65 | |
| | 11/12/13 | | DRY | | | 69.66 | |
| | 2/24/14 | | DRY | | | 69.63 | |
| | 5/27/14 | | DRY | | | 69.63 | |
| | 9/2/14 | | DRY | | | 69.63 | |
| | 10/15/14 | | | Plugged and Abandoned | | | |
| MW-12R 3798.00 | 11/18/14 | 70.80 | --- | --- | 3727.20 | 83.85 | Surveyed on 11/11/14 |
| | 03/02/15 | 71.02 | --- | --- | 3726.98 | 83.19 | |
| | 06/01/15 | 71.16 | --- | --- | 3726.84 | 83.19 | |
| | 08/11/15 | 71.34 | --- | --- | 3726.66 | 83.19 | |
| | 11/30/15 | 71.60 | --- | --- | 3726.40 | 83.19 | |
| MW-13 3799.65 | 6/15/11 | 69.63 | --- | --- | 3730.02 | 69.72 | 47-67 |
| | 9/6/11 | 69.65 | --- | --- | 3730.00 | 69.74 | 2 |
| | 11/29/11 | 69.65 | --- | --- | 3730.00 | 69.75 | |
| | 3/5/12 | 69.67 | --- | --- | 3729.98 | 69.77 | |
| | 6/5/12 | 69.65 | --- | --- | 3730.00 | 69.72 | |
| | 9/10/12 | | DRY | | | 69.72 | |
| | 12/3/12 | | DRY | | | 69.75 | |
| | 3/4/13 | | DRY | | | 69.74 | |
| | 5/28/13 | | DRY | | | 69.73 | |
| | 8/27/13 | | DRY | | | 69.75 | |
| | 11/12/13 | | DRY | | | 69.76 | |
| | 2/24/14 | | DRY | | | 69.75 | |
| | 5/27/14 | 69.67 | --- | --- | 3729.98 | 69.75 | |
| | 9/2/14 | 69.66 | --- | --- | 3729.99 | 69.75 | |
| | 11/18/14 | | Dry | | | 69.75 | |
| MW-14 3796.10 | 3/2/15 | 69.69 | --- | --- | 3729.96 | 69.78 | |
| | 6/1/15 | 69.64 | --- | --- | 3730.01 | 69.71 | |
| | 8/11/15 | | DRY | | | 69.71 | |
| | 11/30/15 | | DRY | | | 69.78 | |
| | | | | | | | |
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| | | | | | | | |

TABLE 1
GROUNDWATER GAUGING SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| Well ID <i>TOC Elevation</i> | Collection Date | Depth to Groundwater (ft TOC) | Depth to LNAPL (ft TOC) | LNAPL Thickness (ft) | Corrected Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) <i>Well Size (in)</i> |
|--|----------------------------|--|--|-------------------------------------|---|------------------------------------|---|
| MW-14 | 9/2/14 | 68.77 | --- | --- | 3727.33 | 72.71 | |
| | 11/18/14 | 69.00 | --- | --- | 3727.10 | 72.71 | |
| | 3/2/15 | 69.17 | --- | --- | 3726.93 | 72.69 | |
| | 6/1/15 | 69.79 | --- | --- | 3726.31 | 72.69 | |
| | 8/11/15 | 69.49 | --- | --- | 3726.61 | 72.69 | |
| | 11/30/15 | 69.71 | --- | --- | 3726.39 | 72.69 | |
| MW-15 3795.96 | 6/15/11 | 65.50 | --- | --- | 3730.46 | 72.75 | --- |
| | 9/6/11 | 66.72 | --- | --- | 3729.24 | 72.92 | 2 |
| | 11/29/11 | 66.92 | --- | --- | 3729.04 | 73.15 | |
| | 3/5/12 | 67.03 | --- | --- | 3728.93 | 73.15 | |
| | 6/5/12 | 67.21 | --- | --- | 3728.75 | 73.00 | |
| | 9/10/12 | 67.36 | --- | --- | 3728.60 | 73.21 | |
| | 12/3/12 | 67.55 | --- | --- | 3728.41 | 73.20 | |
| | 3/4/13 | 67.68 | --- | --- | 3728.28 | 73.02 | |
| | 5/28/13 | 67.85 | --- | --- | 3728.11 | 73.05 | |
| | 8/27/13 | 68.02 | --- | --- | 3727.94 | 73.08 | |
| | 11/12/13 | 68.18 | --- | --- | 3727.78 | 73.04 | |
| | 2/24/14 | 68.34 | --- | --- | 3727.62 | 73.00 | |
| | 5/27/14 | 68.52 | --- | --- | 3727.44 | 73.00 | |
| | 9/2/14 | 68.73 | --- | --- | 3727.23 | 73.00 | |
| | 11/18/14 | 68.95 | --- | --- | 3727.01 | 73.00 | |
| | 3/2/15 | 69.12 | --- | --- | 3726.84 | 73.09 | |
| | 6/1/15 | 69.25 | --- | --- | 3726.71 | 73.09 | |
| | 8/11/15 | 69.47 | --- | --- | 3726.49 | 73.09 | |
| | 11/30/15 | 69.70 | --- | --- | 3726.26 | 73.09 | |
| MW-16 3795.93 | 6/15/11 | 65.81 | --- | --- | 3730.12 | 72.50 | --- |
| | 9/6/11 | 66.03 | --- | --- | 3729.90 | 72.65 | 2 |
| | 11/29/11 | 66.19 | --- | --- | 3729.74 | 73.18 | |
| | 3/5/12 | 66.30 | --- | --- | 3729.63 | 73.20 | |
| | 6/5/12 | 66.46 | --- | --- | 3729.47 | 73.94 | |
| | 9/10/12 | 66.64 | --- | --- | 3729.29 | 74.02 | |
| | 12/3/12 | 66.80 | --- | --- | 3729.13 | 73.50 | |
| | 3/4/13 | 66.95 | --- | --- | 3728.98 | 73.89 | |
| | 5/28/13 | 67.11 | --- | --- | 3728.82 | 73.86 | |
| | 8/27/13 | 67.31 | --- | --- | 3728.62 | 73.89 | |
| | 11/12/13 | 67.46 | --- | --- | 3728.47 | 73.91 | |
| | 2/24/14 | 67.65 | --- | --- | 3728.28 | 70.90 | |
| | 5/27/14 | 67.83 | --- | --- | 3728.10 | 70.90 | |
| | 9/2/14 | 68.03 | --- | --- | 3727.90 | 70.90 | |
| | 11/18/14 | 68.22 | --- | --- | 3727.71 | 70.90 | |
| | 3/2/15 | 68.45 | --- | --- | 3727.48 | 73.95 | |
| | 6/1/15 | 68.56 | --- | --- | 3727.37 | 73.95 | |
| | 8/11/15 | 68.78 | --- | --- | 3727.15 | 73.95 | |
| | 11/30/15 | 69.03 | --- | --- | 3726.90 | 73.95 | |
| RW-1 3797.66 | 6/15/11 | --- | 66.84 | 3.97 | NA* | 70.81 | 45-70 |
| | 9/6/11 | 70.08 | 67.30 | 2.78 | 3729.83 | 70.85 | 4 |
| | 11/29/11 | 69.91 | 67.55 | 2.36 | 3729.66 | 70.80 | |
| | 3/5/12 | 69.85 | 67.77 | 2.08 | 3729.49 | 70.85 | |
| | 6/5/12 | --- | 67.55 | 3.25 | NA* | 70.80 | |
| | 9/10/12 | --- | 67.59 | 3.22 | NA* | 70.81 | |
| | 12/4/12 | --- | 68.12 | 2.73 | NA* | 70.85 | |
| | 3/4/13 | --- | 68.00 | 2.85 | NA* | 70.85 | |
| | 5/28/13 | --- | 68.12 | 2.73 | NA* | 70.85 | |

TABLE 1
GROUNDWATER GAUGING SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| Well ID TOC Elevation | Collection Date | Depth to Groundwater (ft TOC) | Depth to LNAPL (ft TOC) | LNAPL Thickness (ft) | Corrected Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) Well Size (in) |
|-----------------------------|--------------------|-------------------------------------|-------------------------------|----------------------------|---|---------------------------|---|
| RW-1 | 8/27/13 | --- | 68.30 | 2.58 | NA* | 70.88 | |
| | 11/12/13 | --- | 68.49 | 2.41 | NA* | 70.90 | |
| | 2/24/14 | --- | 68.70 | 2.20 | NA* | 70.90 | |
| | 5/27/14 | --- | 69.09 | 1.95 | NA* | 71.04 | |
| | 9/2/14 | --- | 69.34 | 1.73 | NA* | 71.07 | |
| | 11/18/14 | --- | 69.53 | 1.77 | NA* | 71.30 | |
| | 3/2/15 | --- | 69.82 | 1.28 | NA* | 71.10 | |
| | 6/2/15 | --- | 69.99 | 1.11 | NA* | 71.10 | |
| | 8/11/15 | --- | 69.96 | 0.94 | NA* | 70.90 | |
| | 11/30/15 | --- | 70.40 | 0.70 | NA* | 71.10 | |
| RW-2 3797.60 | 6/15/11 | 67.95 | 67.51 | 0.44 | 3730.01 | 71.95 | 44-69 |
| | 9/6/11 | 68.62 | 67.57 | 1.05 | 3729.83 | 72.05 | 4 |
| | 11/29/11 | 70.68 | 67.35 | 3.33 | 3729.62 | 71.98 | |
| | 3/5/12 | 70.72 | 67.53 | 3.19 | 3729.46 | 71.99 | |
| | 6/5/12 | 70.28 | 67.92 | 2.36 | 3729.23 | --- | |
| | 9/10/12 | 70.41 | 68.21 | 2.20 | 3728.97 | 72.10 | |
| | 12/4/12 | 70.01 | 68.25 | 1.76 | 3729.02 | --- | |
| | 3/4/13 | 70.69 | 69.69 | 1.00 | 3727.72 | --- | |
| | 6/4/13 | 70.71 | 69.85 | 0.86 | 3727.59 | --- | |
| | 8/27/13 | 71.02 | 70.04 | 0.98 | 3727.37 | --- | |
| | 11/12/13 | 70.66 | 69.78 | 0.88 | 3727.65 | --- | |
| | 2/24/14 | 70.89 | 70.59 | 0.30 | 3726.95 | --- | |
| | 5/27/14 | --- | 68.92 | 3.17 | NA* | 72.09 | |
| | 7/8/14 | --- | 69.00 | 3.20 | NA* | 72.20 | |
| | 7/24/14 | 69.92 | 69.65 | 0.27 | 3727.90 | 72.20 | |
| | 9/2/14 | 71.16 | 69.58 | 0.58 | 3726.91 | 72.10 | |
| | 11/18/14 | | | NS | | | |
| | 3/2/15 | 70.53 | 70.18 | 0.35 | 3727.35 | --- | |
| | 6/2/15 | 70.54 | 70.34 | 0.20 | 3727.22 | --- | |
| | 8/11/15 | 70.68 | 70.52 | 0.16 | 3727.05 | --- | |
| | 11/30/15 | 70.91 | 70.82 | 0.09 | 3726.76 | --- | |
| RW-3 3798.81 | 6/15/11 | 68.07 | 67.76 | 0.31 | 3730.99 | 68.25 | 44-69 |
| | 9/6/11 | 68.20 | 68.12 | 0.08 | 3730.67 | 68.29 | 4 |
| | 11/29/11 | | | DRY | | | |
| | 3/5/12 | 68.24 | --- | --- | 3730.57 | 68.29 | |
| | 6/5/12 | | | DRY | | | |
| | 7/10/12 | | | DRY | | | |
| | 12/4/12 | | | DRY | | | |
| | 3/4/13 | | | DRY | | | |
| | 5/28/13 | | | DRY | | | |
| | 8/27/13 | | | DRY | | | |
| | 11/12/13 | | | DRY | | | |
| | 2/24/14 | | | DRY | | | |
| | 5/27/14 | 68.10 | --- | --- | 3730.71 | 68.29 | |
| | 9/2/14 | 68.10 | --- | --- | 3730.71 | 68.29 | |
| | 10/15/14 | | | | Plugged and Abandoned | | |
| RW-3R 3798.02 | 11/18/14 | 74.20 | 69.75 | 4.45 | 3727.42 | 85.43 | |
| | 3/2/15 | 74.63 | 69.98 | 4.65 | 3727.16 | --- | |
| | 6/2/15 | 72.55 | 70.61 | 1.94 | 3727.04 | --- | |
| | 8/11/15 | 72.42 | 70.81 | 1.61 | 3726.90 | --- | |
| | 11/30/15 | 74.20 | 70.77 | 3.43 | 3726.60 | --- | |

TABLE 1
GROUNDWATER GAUGING SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| Well ID <i>TOC Elevation</i> | Collection Date | Depth to Groundwater (ft TOC) | Depth to LNAPL (ft TOC) | LNAPL Thickness (ft) | Corrected Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) Well Size (in) |
|--|----------------------------|--|--|-------------------------------------|---|------------------------------------|---|
| RW-4 3798.34 | 6/15/11 | --- | 67.31 | 0.08 | NA* | 67.39 | 44-69 |
| | 9/6/11 | | DRY | | | 67.43 | 4 |
| | 11/29/11 | | DRY | | | --- | |
| | 3/5/12 | | DRY | | | 67.43 | |
| | 6/5/12 | | DRY | | | --- | |
| | 9/10/12 | | DRY | | | --- | |
| | 12/4/12 | | DRY | | | --- | |
| | 3/4/13 | | DRY | | | 67.43 | |
| | 5/28/13 | | DRY | | | 67.40 | |
| | 8/27/13 | | DRY | | | 67.43 | |
| | 11/12/13 | | DRY | | | 67.45 | |
| | 2/24/14 | | DRY | | | 67.44 | |
| | 5/27/14 | | DRY | | | 67.44 | |
| | 9/2/14 | | DRY | | | 67.44 | |
| | 10/9/15 | | | | Plugged and Abandoned | | |
| RW-4R 3797.61 | 11/18/14 | 70.03 | 70.01 | 0.02 | 3727.60 | 85.42 | Surveyed on 11/11/14 |
| | 3/2/15 | 70.80 | 70.12 | 0.68 | 3727.36 | --- | |
| | 6/2/15 | 71.89 | 70.08 | 1.81 | 3727.19 | --- | |
| | 8/11/15 | 71.62 | 70.30 | 1.32 | 3727.06 | --- | |
| | 11/30/15 | 72.43 | 70.45 | 1.98 | 3726.78 | | |
| RW-5 3797.60 | 6/15/11 | 67.48 | --- | --- | 3730.12 | 70.35 | 47-67 |
| | 9/6/11 | 67.66 | --- | --- | 3729.94 | 70.39 | 4 |
| | 11/29/11 | 67.84 | --- | --- | 3729.76 | 70.38 | |
| | 3/5/12 | 67.97 | --- | --- | 3729.63 | 70.39 | |
| | 6/5/12 | 68.27 | --- | --- | 3729.33 | 70.15 | |
| | 9/10/12 | 68.32 | --- | --- | 3729.28 | 70.32 | |
| | 12/4/12 | 68.50 | --- | --- | 3729.10 | 70.48 | |
| | 3/4/13 | 68.68 | --- | --- | 3728.92 | 70.36 | |
| | 5/28/13 | 68.83 | 68.80 | 0.03 | 3728.77 | --- | |
| | 8/27/13 | 69.00 | --- | --- | 3728.60 | 70.40 | |
| | 11/12/13 | 69.16 | --- | --- | 3728.44 | 70.45 | |
| | 2/24/14 | 69.34 | --- | --- | 3728.26 | 70.44 | |
| | 5/27/14 | 69.54 | --- | --- | 3728.06 | 70.44 | |
| | 9/2/14 | 69.74 | --- | --- | 3727.86 | 70.44 | |
| | 11/18/14 | 69.90 | --- | --- | 3727.70 | 70.44 | |
| | 3/2/15 | 70.23 | --- | --- | 3727.37 | 70.47 | |
| | 6/1/15 | 70.21 | --- | --- | 3727.39 | 70.47 | |
| | 8/11/15 | 70.32 | --- | --- | 3727.28 | 70.47 | |
| | 11/30/15 | | DRY | | | 70.47 | |
| RW-6 3797.28 | 6/15/11 | 67.84 | 66.94 | 0.90 | 3730.17 | 68.35 | 47-67 |
| | 9/6/11 | 67.84 | 67.45 | 0.39 | 3729.76 | 68.35 | 4 |
| | 11/29/11 | 67.65 | --- | --- | 3729.63 | 68.40 | |
| | 3/5/12 | 67.71 | 67.64 | 0.07 | 3729.63 | 68.41 | |
| | 6/5/12 | 68.12 | --- | --- | 3729.16 | 68.30 | |
| | 9/10/12 | 68.31 | --- | --- | 3728.97 | 68.34 | |
| | 12/4/12 | | DRY | | | 68.31 | |
| | 3/4/13 | 68.31 | --- | --- | 3728.97 | 68.31 | |
| | 5/28/13 | | DRY | | | 68.35 | |
| | 8/27/13 | | DRY | | | 68.35 | |
| | 11/12/13 | | DRY | | | 68.37 | |
| | 2/24/14 | 68.33 | --- | --- | 3728.95 | 68.38 | |
| | 5/27/14 | | DRY | | | 68.38 | |

TABLE 1
GROUNDWATER GAUGING SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| Well ID <i>TOC Elevation</i> | Collection Date | Depth to Groundwater (ft TOC) | Depth to LNAPL (ft TOC) | LNAPL Thickness (ft) | Corrected Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) <i>Well Size (in)</i> |
|--|----------------------------|--|--|-------------------------------------|---|------------------------------------|---|
| RW-6 | 9/2/14 | 68.34 | --- | --- | 3728.94 | 68.38 | |
| | 11/18/14 | | DRY | | | 68.38 | |
| | 3/2/15 | 68.34 | --- | --- | 3728.94 | 68.40 | |
| | 6/1/15 | | DRY | | | 68.33 | |
| | 8/11/15 | | DRY | | | 68.33 | |
| | 11/30/15 | | DRY | | | 68.33 | |
| RW-7 3797.43 | 6/15/11 | 68.92 | 67.13 | 1.79 | 3729.96 | 73.28 | --- |
| | 9/6/11 | 68.30 | 67.49 | 0.81 | 3729.79 | 73.30 | 4 |
| | 11/29/11 | 67.87 | 67.86 | 0.01 | 3729.57 | 73.32 | |
| | 3/5/12 | 68.04 | 67.87 | 0.17 | 3729.53 | 73.44 | |
| | 6/5/12 | 68.17 | 68.12 | 0.05 | 3729.30 | --- | |
| | 9/10/12 | 68.72 | 68.19 | 0.53 | 3729.14 | 73.31 | |
| | 12/4/12 | 68.75 | 68.40 | 0.35 | 3728.96 | --- | |
| | 3/4/13 | 69.29 | 68.50 | 0.79 | 3728.78 | --- | |
| | 5/28/13 | 69.42 | 68.67 | 0.75 | 3728.62 | --- | |
| | 8/27/13 | 69.71 | 68.83 | 0.88 | 3728.43 | --- | |
| | 11/12/13 | 69.95 | 68.95 | 1.00 | 3728.29 | --- | |
| | 2/24/14 | 70.58 | 70.44 | 0.14 | 3726.96 | --- | |
| | 5/27/14 | 69.49 | 69.44 | 0.05 | 3727.98 | 73.31 | |
| | 9/2/14 | 69.70 | 69.66 | 0.04 | 3727.76 | 73.31 | |
| | 11/18/14 | 69.90 | 69.83 | 0.07 | 3727.59 | 73.31 | |
| | 3/2/15 | 70.14 | 70.08 | 0.06 | 3727.34 | --- | |
| | 6/2/15 | 70.32 | 70.22 | 0.10 | 3727.19 | --- | |
| | 8/11/15 | 70.42 | 70.40 | 0.02 | 3727.03 | --- | |
| | 11/30/15 | 70.74 | 70.66 | 0.08 | 3726.75 | --- | |
| RW-8 3798.33 | 6/15/11 | 71.39 | 67.71 | 3.68 | 3729.92 | 72.80 | --- |
| | 9/6/11 | 70.54 | 68.10 | 2.44 | 3729.77 | 72.94 | 4 |
| | 11/29/11 | 68.72 | --- | --- | 3729.61 | 73.00 | |
| | 3/5/12 | 68.85 | 68.83 | 0.02 | 3729.50 | --- | |
| | 6/5/12 | 69.09 | --- | --- | 3729.24 | 72.95 | |
| | 9/10/12 | 69.20 | --- | --- | 3729.13 | 73.00 | |
| | 12/4/12 | 69.53 | 69.50 | 0.03 | 3728.82 | 73.30 | |
| | 3/4/13 | 69.73 | 69.48 | 0.25 | 3728.80 | --- | |
| | 5/28/13 | 70.15 | 69.57 | 0.58 | 3728.65 | --- | |
| | 8/27/13 | 71.13 | 69.60 | 1.53 | 3728.44 | --- | |
| | 11/12/13 | 70.61 | 69.89 | 0.72 | 3728.30 | --- | |
| | 2/24/14 | 72.20 | 71.74 | 0.46 | 3726.50 | --- | |
| | 5/27/14 | 72.43 | 69.90 | 2.53 | 3727.95 | 73.30 | |
| | 7/8/14 | 72.52 | 69.75 | 2.77 | 3728.05 | 73.30 | |
| | 8/5/14 | 70.67 | 70.46 | 0.21 | 3727.83 | 73.30 | |
| | 9/2/14 | 71.34 | 70.43 | 0.91 | 3727.73 | 73.30 | |
| | 11/18/14 | | | NS | | | |
| | 3/2/15 | 72.26 | 70.70 | 1.56 | 3727.33 | --- | |
| | 6/2/15 | 72.49 | 70.69 | 1.80 | 3727.30 | --- | |
| | 8/11/15 | 72.58 | 70.89 | 1.69 | 3727.12 | --- | |
| | 11/30/15 | 72.60 | 71.12 | 1.48 | 3726.93 | --- | |
| RW-9 3797.99 | 6/15/11 | 71.69 | 67.11 | 4.58 | 3730.01 | 74.10 | --- |
| | 9/6/11 | 71.04 | 67.45 | 3.59 | 3729.86 | 74.14 | 4 |
| | 11/29/11 | 68.86 | 68.43 | 0.43 | 3729.48 | 74.35 | |
| | 3/5/12 | 69.08 | 68.23 | 0.85 | 3729.60 | 74.38 | |
| | 6/5/12 | 69.15 | 68.90 | 0.25 | 3729.04 | --- | |
| | 9/10/12 | 69.15 | 68.63 | 0.52 | 3729.26 | 74.23 | |
| | 12/4/12 | 69.77 | 68.72 | 1.05 | 3729.07 | --- | |

TABLE 1
GROUNDWATER GAUGING SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| Well ID TOC Elevation | Collection Date | Depth to Groundwater (ft TOC) | Depth to LNAPL (ft TOC) | LNAPL Thickness (ft) | Corrected Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) Well Size (in) |
|--------------------------------------|----------------------------|--|--|-------------------------------------|---|------------------------------------|---|
| RW-9 | 3/4/13 | 71.15 | 68.65 | 2.50 | 3728.87 | --- | |
| | 5/28/13 | 71.00 | 68.88 | 2.12 | 3728.71 | --- | |
| | 8/27/13 | 71.22 | 69.05 | 2.17 | 3728.53 | --- | |
| | 11/12/13 | 70.93 | 69.27 | 1.66 | 3728.40 | --- | |
| | 2/24/14 | 70.41 | 69.62 | 0.79 | 3728.22 | --- | |
| | 5/27/14 | 71.55 | 69.56 | 1.99 | 3728.05 | 74.23 | |
| | 7/24/14 | 72.11 | 69.65 | 2.46 | 3727.87 | 74.23 | |
| | 8/5/14 | 70.45 | 69.98 | 0.47 | 3727.92 | 74.23 | |
| | 9/2/14 | 70.77 | 69.92 | 0.85 | 3727.91 | 74.23 | |
| | 11/18/14 | 71.49 | 70.10 | 1.39 | 3727.63 | 74.23 | |
| | 3/2/15 | 70.88 | 70.49 | 0.39 | 3727.43 | --- | |
| | 6/2/15 | 71.40 | 70.57 | 0.83 | 3727.26 | --- | |
| | 8/11/15 | 71.13 | 70.82 | 0.31 | 3727.11 | --- | |
| | 11/30/15 | 71.39 | 71.05 | 0.34 | 3726.88 | --- | |
| RW-10 3799.10 | 6/15/11 | 72.62 | 68.40 | 4.22 | 3729.90 | 73.49 | --- |
| | 9/6/11 | 71.46 | 68.90 | 2.56 | 3729.71 | 72.60 | 4 |
| | 11/29/11 | 71.59 | 69.03 | 2.56 | 3729.58 | 73.50 | |
| | 3/5/12 | 70.72 | 69.48 | 1.24 | 3729.38 | 73.51 | |
| | 6/5/12 | 70.82 | 69.80 | 1.02 | 3729.11 | --- | |
| | 9/10/12 | 71.95 | 69.66 | 2.29 | 3729.00 | 73.56 | |
| | 12/4/12 | 71.94 | 69.76 | 2.18 | 3728.93 | --- | |
| | 3/4/13 | 73.17 | 69.44 | 3.73 | 3728.95 | --- | |
| | 5/28/13 | 73.19 | 69.59 | 3.60 | 3728.83 | --- | |
| | 8/27/13 | 73.10 | 69.78 | 3.32 | 3728.69 | --- | |
| | 11/12/13 | 73.04 | 70.08 | 2.96 | 3728.46 | --- | |
| | 2/24/14 | 73.07 | 70.46 | 2.61 | 3728.14 | --- | |
| | 5/27/14 | --- | 70.60 | 2.68 | NA* | 73.28 | |
| | 7/8/14 | --- | 70.65 | 2.65 | NA* | 73.30 | |
| | 8/5/14 | 72.01 | 71.69 | 0.32 | 3727.35 | 73.28 | |
| | 9/2/14 | --- | 70.72 | 2.32 | NA* | 73.04 | |
| | 11/18/14 | | | NS | | | |
| | 3/2/15 | 72.97 | 71.55 | 1.42 | 3727.28 | --- | |
| | 6/2/15 | 72.94 | 71.66 | 1.28 | 3727.20 | --- | |
| | 8/11/15 | 72.45 | 72.06 | 0.39 | 3726.97 | --- | |
| | 11/30/15 | 72.59 | 72.36 | 0.23 | 3726.70 | --- | |
| RW-11 3796.65 | 6/15/11 | 71.10 | 65.75 | 5.35 | 3729.88 | 71.10 | --- |
| | 9/6/11 | | | Pump Stuck | | 68.90 | 4 |
| | 11/29/11 | 71.35 | 66.16 | 5.19 | 3729.50 | 73.70 | |
| | 3/5/12 | 70.93 | 66.43 | 4.50 | 3729.37 | 73.70 | |
| | 6/5/12 | 69.62 | 66.94 | 2.68 | 3729.20 | --- | |
| | 9/10/12 | 70.79 | 66.89 | 3.90 | 3729.02 | 73.21 | |
| | 12/4/12 | 70.10 | 67.25 | 2.85 | 3728.86 | --- | |
| | 3/4/13 | 72.39 | 66.95 | 5.44 | 3728.67 | --- | |
| | 5/28/13 | 72.72 | 67.08 | 5.64 | 3728.50 | --- | |
| | 8/27/13 | --- | 69.30 | 3.91 | NA | 73.21 | |
| | 11/12/13 | 70.72 | 67.94 | 2.78 | 3728.18 | --- | |
| | 2/24/14 | 70.70 | 68.13 | 2.57 | 3728.03 | --- | |
| | 5/27/14 | --- | 67.82 | 5.08 | NA* | 72.90 | |
| | 7/8/14 | --- | 67.88 | 4.92 | n | 72.80 | |
| | 8/5/14 | 69.35 | 68.86 | 0.49 | 3727.70 | 72.90 | |
| | 9/2/14 | --- | 68.19 | 4.52 | NA* | 72.71 | |
| | 11/18/14 | | | NS | | | |
| | 3/2/15 | 72.71 | 68.69 | 4.02 | 3727.20 | --- | |
| | 6/2/15 | 70.74 | 69.39 | 1.35 | 3727.00 | --- | |

TABLE 1
GROUNDWATER GAUGING SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| Well ID <i>TOC Elevation</i> | Collection Date | Depth to Groundwater (ft TOC) | Depth to LNAPL (ft TOC) | LNAPL Thickness (ft) | Corrected Groundwater Elevation (ft) | Well Depth (ft TOC) | Well Screen Interval (ft bgs) Well Size (in) |
|--|----------------------------|--|--|-------------------------------------|---|------------------------------------|---|
| RW-11 | 8/11/15 | 70.60 | 69.53 | 1.07 | 3726.92 | --- | |
| | 11/30/15 | 71.63 | 69.60 | 2.03 | 3726.66 | --- | |
| RW-12 | 6/15/11 | 69.98 | 67.80 | 2.18 | 3729.92 | 72.83 | --- |
| 3798.13 | 9/6/11 | 69.22 | 68.16 | 1.06 | 3729.77 | 72.84 | 4 |
| | 11/29/11 | 68.90 | 68.62 | 0.28 | 3729.46 | 72.85 | |
| | 3/5/12 | 68.80 | 68.63 | 0.17 | 3729.47 | 72.85 | |
| | 6/5/12 | 69.15 | --- | --- | 3728.98 | 77.70 | |
| | 9/11/12 | 69.23 | 69.00 | 0.23 | 3729.09 | 74.10 | |
| | 12/4/12 | 69.37 | 69.11 | 0.26 | 3728.97 | --- | |
| | 3/4/13 | 69.93 | 69.22 | 0.71 | 3728.78 | --- | |
| | 5/28/13 | 70.29 | 69.33 | 0.96 | 3728.62 | --- | |
| | 8/27/13 | 70.14 | 69.62 | 0.52 | 3728.41 | --- | |
| | 11/12/13 | 70.42 | 69.71 | 0.71 | 3728.29 | --- | |
| | 2/24/14 | 70.96 | 70.85 | 0.11 | 3727.26 | --- | |
| | 5/27/14 | 70.29 | 70.18 | 0.11 | 3727.93 | 74.10 | |
| | 9/2/14 | 70.51 | 70.38 | 0.13 | 3727.73 | 74.10 | |
| | 11/18/14 | 70.70 | 70.57 | 0.13 | 3727.54 | --- | |
| | 3/2/15 | 70.89 | 70.82 | 0.07 | 3727.30 | --- | |
| | 6/2/15 | 71.04 | 70.96 | 0.08 | 3727.15 | --- | |
| | 8/11/15 | 71.15 | 71.14 | 0.01 | 3726.99 | --- | |
| | 11/30/15 | 71.46 | 71.45 | 0.01 | 3726.68 | --- | |
| RW-13 | 6/15/11 | 69.52 | 68.38 | 1.14 | 3729.92 | 73.85 | --- |
| 3798.52 | 9/6/11 | 69.04 | 68.85 | 0.19 | 3729.63 | 73.92 | 4 |
| | 11/29/11 | 68.95 | --- | --- | 3729.57 | 73.90 | |
| | 3/5/12 | 69.25 | 69.01 | 0.24 | 3729.46 | --- | |
| | 6/5/12 | 69.55 | 69.45 | 0.10 | 3729.05 | --- | |
| | 7/10/12 | 69.78 | 69.31 | 0.47 | 3729.12 | 74.00 | |
| | 12/4/12 | 69.86 | 69.50 | 0.36 | 3728.95 | --- | |
| | 3/4/13 | 70.05 | 69.64 | 0.41 | 3728.80 | --- | |
| | 5/28/13 | 70.47 | 69.76 | 0.71 | 3728.63 | --- | |
| | 8/27/13 | 70.72 | 69.98 | 0.74 | 3728.40 | --- | |
| | 11/12/13 | 70.84 | 70.12 | 0.72 | 3728.26 | --- | |
| | 2/24/14 | 70.54 | 70.36 | 0.18 | 3728.13 | --- | |
| | 5/27/14 | 70.77 | 70.55 | 0.22 | 3727.93 | 74.00 | |
| | 9/2/14 | 70.99 | 70.76 | 0.23 | 3727.72 | 74.00 | |
| | 11/18/14 | 71.20 | 70.95 | 0.25 | 3727.52 | 74.00 | |
| | 3/2/15 | 71.33 | 71.18 | 0.15 | 3727.31 | --- | |
| | 6/2/15 | 71.48 | 71.34 | 0.14 | 3727.15 | --- | |
| | 8/11/15 | 71.54 | 71.53 | 0.01 | 3726.99 | --- | |
| | 11/30/15 | 71.81 | 71.78 | 0.03 | 3726.73 | --- | |
| RW-14 | 11/18/14 | 70.70 | --- | --- | 3727.37 | 85.39 | --- |
| 3798.07 | 3/2/15 | 70.91 | 70.91 | --- | 3727.16 | 87.35 | Surveyed on 11/11/14 Sheen |
| | 6/2/15 | 71.06 | --- | --- | 3727.01 | 87.35 | |
| | 8/11/15 | 71.22 | --- | --- | 3726.85 | 87.35 | |
| | 11/30/15 | 71.50 | --- | --- | 3726.57 | 87.35 | |
| | | | | | | | |
| RW-15 | 11/18/14 | 70.71 | --- | --- | 3727.45 | 85.57 | --- |
| 3798.16 | 3/2/15 | 70.93 | --- | --- | 3727.23 | 86.70 | Surveyed on 11/11/14 |
| | 6/2/15 | 71.11 | --- | --- | 3727.05 | 86.70 | |
| | 8/11/15 | 71.25 | --- | --- | 3726.91 | 86.70 | |
| | 11/30/15 | 71.53 | --- | --- | 3726.63 | 86.70 | |
| | | | | | | | |

TABLE 1
GROUNDWATER GAUGING SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| <i>Well ID</i> <i>TOC</i> <i>Elevation</i> | <i>Collection</i> <i>Date</i> | <i>Depth to</i> <i>Groundwater</i> <i>(ft TOC)</i> | <i>Depth to</i> <i>LNAPL</i> <i>(ft TOC)</i> | <i>LNAPL</i> <i>Thickness</i> <i>(ft)</i> | <i>Corrected</i> <i>Groundwater</i> <i>Elevation</i> <i>(ft)</i> | <i>Well</i> <i>Depth</i> <i>(ft TOC)</i> | <i>Well Screen</i> <i>Interval</i> <i>(ft bgs)</i> | <i>Well Size (in)</i> |
|--|----------------------------------|--|--|---|---|--|--|-----------------------|
|--|----------------------------------|--|--|---|---|--|--|-----------------------|

Notes:

1. TOC - Top of Casing.
2. LNAPL - Light non-aqueous phase liquid.
3. bgs - below ground surface.
4. *Corrected groundwater elevations were calculated using an LNAPL specific gravity of 0.81 if LNAPL present in well.
5. NA - Total fluids column was product.
6. NS - No sample collected due to lack of water column or pump in well.

TABLE 2
GROUNDWATER BTEX ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| <i>Sample ID</i> | <i>Sample Date</i> | <i>Benzene</i> | <i>Toluene</i> | <i>Ethyl-Benzene</i> | <i>Total Xylenes</i> |
|---|---|--|--|--|--|
| <i>New Mexico Oil Conservation Division Regulatory Limits</i> | | | | | |
| | | 0.01 | 0.75 | 0.75 | 0.62 |
| MW-1A | 12/1/11 12/7/12 11/14/13 11/20/14 | <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 |
| MW-2 | 12/1/11 12/7/12 | <0.00100 <0.00100 | <0.00100 <0.00100 | <0.00100 <0.00100 | <0.00100 <0.00100 |
| MW-3 | 3/2/11 6/15/11 9/13/11 | <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 |
| MW-3R DUP-2 | 3/5/15 3/5/15 6/5/15 8/13/15 12/3/15 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 |
| MW-4 | 12/1/11 12/7/12 11/14/13 | <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 |
| MW-5 | 12/1/11 12/7/12 11/14/13 11/20/14 | <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 |
| MW-6 | 3/2/11 6/15/11 9/13/11 12/1/11 3/7/12 6/7/12 9/12/12 12/7/12 3/7/13 5/30/13 8/29/13 11/14/13 2/27/14 5/29/14 9/3/14 11/20/14 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 |
| MW-7 | 12/1/11 12/7/12 11/14/13 | <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 |
| MW-8 | 3/2/11 6/15/11 | <0.00100 <0.00100 | <0.00100 <0.00100 | 0.00760 <0.00100 | 0.0210 <0.00100 |

TABLE 2
GROUNDWATER BTEX ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| <i>Sample ID</i> | <i>Sample Date</i> | <i>Benzene</i> | <i>Toluene</i> | <i>Ethyl-Benzene</i> | <i>Total Xylenes</i> |
|---|--|--|--|--|--|
| <i>New Mexico Oil Conservation Division Regulatory Limits</i> | | | | | |
| | | 0.01 | 0.75 | 0.75 | 0.62 |
| MW-8 | 9/13/11 | <0.00100 | <0.00100 | <0.00100 | 0.00700 |
| MW-9 | 6/15/11 12/1/11 6/7/12 12/7/12 5/30/13 11/14/13 5/29/14 11/20/14 6/5/15 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 0.00110 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 0.00390 <0.00100 <0.00100 |
| MW-10 | 3/2/11 6/15/11 9/13/11 12/1/11 3/7/12 6/7/12 9/12/12 12/7/12 3/7/13 5/30/13 8/29/13 11/14/13 5/29/14 9/3/14 11/20/14 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 |
| MW-11 | 12/1/11 12/7/12 8/29/13 11/14/13 9/3/14 11/20/14 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 |
| MW-12 | 12/1/11 6/7/12 11/20/14 | 0.210 0.303 | <0.00500 0.134 | 0.0147 0.397 | <0.00500 1.2 |
| MW-12R | 3/5/15 6/5/15 8/13/15 12/3/15 | <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 0.0129 <0.00100 0.0015 | <0.00100 0.00210 <0.00100 0.00320 |
| MW-14 | 3/2/11 6/15/11 9/13/11 12/1/11 3/7/12 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 | <0.00100 <0.00100 <0.00100 <0.00100 <0.00100 |

TABLE 2
GROUNDWATER BTEX ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| <i>Sample ID</i> | <i>Sample Date</i> | <i>Benzene</i> | <i>Toluene</i> | <i>Ethyl-Benzene</i> | <i>Total Xylenes</i> |
|---|--------------------|----------------|----------------|----------------------|----------------------|
| <i>New Mexico Oil Conservation Division Regulatory Limits</i> | | | | | |
| | | 0.01 | 0.75 | 0.75 | 0.62 |
| MW-14 | 6/7/12 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 9/12/12 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 12/7/12 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 3/7/13 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 5/30/13 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 8/29/13 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 11/14/13 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 2/27/14 | <0.00100 | <0.00100 | <0.00100 | <0.00300 |
| | 5/29/14 | <0.00100 | <0.00100 | <0.00100 | <0.00300 |
| | 9/3/14 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 11/20/14 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 3/5/15 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 6/5/15 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 8/13/15 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 12/3/15 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| MW-15 | 3/2/11 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 6/15/11 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 9/13/11 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 12/1/11 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 3/7/12 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 6/7/12 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 9/12/12 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 12/7/12 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 3/7/13 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 5/30/13 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 8/29/13 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 11/14/13 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 2/27/14 | <0.00100 | <0.00100 | <0.00100 | <0.00300 |
| | 5/29/14 | <0.00100 | <0.00100 | <0.00100 | <0.00300 |
| | 9/3/14 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 11/20/14 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| DUP-1 | 3/5/15 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 6/5/15 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 8/13/15 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 12/3/15 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| MW-16 | 3/2/11 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 6/15/11 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 9/13/11 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 12/1/11 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 3/7/12 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 6/7/12 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 9/12/12 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 12/7/12 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 3/7/13 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 5/30/13 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 8/29/13 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 11/14/13 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |

TABLE 2
GROUNDWATER BTEX ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| <i>Sample ID</i> | <i>Sample Date</i> | <i>Benzene</i> | <i>Toluene</i> | <i>Ethyl-Benzene</i> | <i>Total Xylenes</i> |
|---|--------------------|----------------|----------------|----------------------|----------------------|
| <i>New Mexico Oil Conservation Division Regulatory Limits</i> | | | | | |
| | | 0.01 | 0.75 | 0.75 | 0.62 |
| MW-16 | 2/27/14 | <0.00100 | <0.00100 | <0.00100 | <0.00300 |
| | 5/29/14 | <0.00100 | <0.00100 | <0.00100 | <0.00300 |
| | 9/3/14 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 11/20/14 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 3/5/15 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 6/5/15 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 8/13/15 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 12/3/15 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| RW-5 | 3/2/11 | 0.00830 | <0.00100 | 0.0206 | 0.0360 |
| | 6/15/11 | 0.0109 | <0.00100 | <0.00100 | <0.00100 |
| | 9/13/11 | 0.0151 | 0.00850 | 0.247 | 0.382 |
| | 12/1/11 | <0.00100 | 0.0478 | 0.354 | 0.758 |
| | 3/7/12 | 0.0548 | 0.0550 | 0.268 | 0.675 |
| | 6/7/12 | <0.00100 | 0.0092 | 0.220 | 0.592 |
| | 9/12/12 | 0.0337 | <0.00100 | 0.111 | 0.289 |
| | 12/7/12 | <0.00100 | <0.00100 | 0.0498 | 0.0488 |
| | 3/7/13 | <0.00100 | <0.00100 | 0.0294 | 0.0132 |
| | 8/29/13 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 11/14/13 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| | 2/27/14 | <0.00100 | <0.00100 | 0.0072 | <0.00300 |
| | 5/29/14 | 0.00100 | <0.00100 | 0.00250 | <0.00300 |
| | 9/3/14 | <0.00100 | <0.00100 | 0.00140 | 0.00780 |
| | 3/5/15 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| RW-6 | 12/1/11 | 0.0794 | 0.129 | 0.639 | 1.75 |
| RW-8 | 12/1/11 | 1.21 | 1.57 | 0.685 | 2.55 |
| | 6/7/12 | 1.55 | 0.184 | 0.520 | 1.90 |
| RW-12 | 6/7/12 | 0.303 | 0.134 | 0.397 | 1.20 |
| RW-13 | 3/2/11 | 1.21 | 0.910 | 0.914 | 2.15 |
| | 12/1/11 | 1.08 | 0.219 | 0.311 | 0.776 |
| RW-14 | 11/20/14 | 0.052 | <0.00100 | 0.0493 | 0.0123 |
| | 3/5/15 | 0.0756 | <0.00100 | 0.0663 | 0.0217 |
| | 8/13/15 | <0.00100 | <0.00100 | <0.00100 | 0.00100 |
| | 12/3/15 | 0.0217 | <0.00100 | <0.00100 | 0.00240 |
| RW-15 | 11/20/14 | 0.0101 | 0.0117 | 0.0122 | 0.128 |
| | 3/5/15 | 0.0262 | 0.0059 | 0.0495 | 0.120 |
| | 6/5/15 | 0.0714 | <0.00100 | 0.0539 | 0.0345 |
| DUP-1 | 6/5/15 | 0.0823 | <0.00100 | 0.0726 | 0.0355 |
| | 8/13/15 | 0.325 | 0.0908 | 0.1630 | 0.763 |

TABLE 2
GROUNDWATER BTEX ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| <i>Sample ID</i> | <i>Sample Date</i> | <i>Benzene</i> | <i>Toluene</i> | <i>Ethyl-Benzene</i> | <i>Total Xylenes</i> |
|---|--------------------|----------------|----------------|----------------------|----------------------|
| <i>New Mexico Oil Conservation Division Regulatory Limits</i> | | | | | |
| | | 0.01 | 0.75 | 0.75 | 0.62 |
| RW-15 | 8/13/15 | 0.315 | 0.0887 | 0.1760 | 0.761 |
| | 12/3/15 | 0.413 | 0.0962 | 0.2200 | 0.455 |
| DUP-1 | 12/3/15 | 0.422 | 0.1050 | 0.1780 | 0.423 |
| Notes: | | | | | |
| 1. Shaded cells indicate New Mexico Oil Conservation Division Regulatory Limit exceedances. 2. Bold indicates detection. 3. BTEX analyses by EPA Method 8021B. 4. Results shown in mg/L. 5. March 2011 analytical results collected by NOVA. | | | | | |

TABLE 3
GROUNDWATER PAH ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| Sample ID | Sample Date | Aceanthrene | Aceanaphthylene | Anthracene | Benz(a)anthracene | Benz(a)pyrene | Benz(b)fluoranthene | Benz(g,h,i)perylene | Benz(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene | Dibenzofuran | |
|--|-------------|---|-----------------|------------|-------------------|---------------|---------------------|---------------------|---------------------|-----------|-----------------------|--------------|-----------|------------------------|-----------------|-----------------|-------------|---------------------|---------------------|----------------|----------------|
| NMWQCC Drinking Water Standards Section 1-101.UU and 3-103.A | | | | | | | | | | | | | | | | | | | | | |
| MW-1A | 12/3/08 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | |
| | 12/1/09 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | 0.000974 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | |
| | 11/23/10 | Not sampled as part of Quarterly Monitoring Event | | | | | | | | | | | | | | | | | | | |
| | 11/20/14 | Not sampled due to insufficient water column | | | | | | | | | | | | | | | | | | | |
| | 12/3/15 | | | | | | | | | | | | | | | | | | | | |
| MW-2 | 12/3/08 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 |
| | 12/1/09 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 |
| | 11/23/10 | Not sampled as part of Quarterly Monitoring Event | | | | | | | | | | | | | | | | | | | |
| MW-3 | 12/3/08 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 |
| | 12/1/09 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 |
| | 11/23/10 | Not sampled as part of Quarterly Monitoring Event | | | | | | | | | | | | | | | | | | | |
| MW-3R | 11/20/14 | Not sampled due to LNAPL present in well | | | | | | | | | | | | | | | | | | | |
| | 12/3/15 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 | <0.000199 |
| MW-4 | 12/3/08 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 |
| | 12/1/09 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 |
| | 11/23/10 | Not sampled as part of Quarterly Monitoring Event | | | | | | | | | | | | | | | | | | | |
| MW-5 | 12/3/08 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 |
| | 12/1/09 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 |
| | 11/23/10 | Not sampled as part of Quarterly Monitoring Event | | | | | | | | | | | | | | | | | | | |
| MW-6 | 12/3/08 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | 0.000391 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 |
| | 12/1/09 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 |
| | 11/23/10 | Not sampled as part of Quarterly Monitoring Event | | | | | | | | | | | | | | | | | | | |
| | 12/1/11 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 |
| MW-7 | 12/3/08 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 |
| | 12/1/09 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 |
| | 11/23/10 | Not sampled as part of Quarterly Monitoring Event | | | | | | | | | | | | | | | | | | | |
| MW-8 | 12/3/08 | <0.000192 | <0.000192 | <0.000192 | <0.000192 | <0.000192 | <0.000192 | <0.000192 | <0.000192 | <0.000192 | <0.000192 | <0.000192 | <0.000192 | 0.00604 | <0.000192 | 0.00597 | <0.000192 | 0.00205 | 0.0108 | 0.00967 | 0.00451 |
| | 12/1/09 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | 0.0617 | <0.000917 | 0.00241 | <0.000917 | <0.000917 | <0.000917 | <0.000917 | <0.000917 |
| | 11/23/10 | Not sampled as part of Quarterly Monitoring Event | | | | | | | | | | | | | | | | | | | |

TABLE 3
GROUNDWATER PAH ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

TABLE 3
GROUNDWATER PAH ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| Sample ID | Sample Date | Aceanthene | Aceanaphthylene | Anthracene | Benz(a)anthracene | Benz(a)pyrene | Benz(b)fluoranthene | Benz(g,h,i)perylene | Benz(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene | Dibenzofuran | |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|--|--|---|---|---|--|--|
| NMWQCC Drinking Water Standards Section 1-101.UU and 3-103.A | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 0.001 | 0.007 | 0.002 | | 0.002 | 0.002 | 0.003 | | 0.004 | | | 0.03 | | | |
| RW-3 | 12/3/08 12/2/09 11/23/10 | | | | | | | | | | | | | | | | | | | |
| RW-3R | 11/20/14 12/3/15 | | | | | | | | | | | | | | | | | | | |
| RW-4 | 12/3/08 12/2/09 11/23/10 | | | | | | | | | | | | | | | | | | | |
| RW-4R | 11/20/14 12/3/15 | | | | | | | | | | | | | | | | | | | |
| RW-5 | 12/3/08 12/2/09 11/23/10 12/7/12 12/3/15 | <0.000183 <0.000187 <0.000187 <0.000187 <0.000190 | 0.00148 Not sampled as part of Quarterly Monitoring Event | <0.000183 <0.000187 <0.000187 <0.000187 <0.000190 | 0.000841 Not sampled due to LNAPL present in well | <0.000183 <0.000187 <0.000187 <0.000187 <0.000190 | <0.000183 <0.000187 <0.000187 <0.000187 <0.000190 | 0.0254 Not sampled due to LNAPL present in well | 0.0160 Not sampled due to LNAPL present in well | 0.0144 Not sampled due to LNAPL present in well | 0.00133 Not sampled due to LNAPL present in well |
| RW-6 | 12/3/08 12/2/09 11/23/10 12/1/11 12/3/15 | <0.000183 <0.000183 <0.000183 <0.000184 | 0.0340 DRY | <0.000183 Not sampled due to LNAPL present in well | 0.00476 Not sampled as part of Quarterly Monitoring Event | <0.000183 Not sampled due to LNAPL present in well | 0.0382 DRY | 0.0445 Not sampled due to LNAPL present in well | 0.0553 Not sampled due to LNAPL present in well | 0.00257 DRY | | |
| RW-7 | 12/3/08 12/2/09 11/23/10 12/3/15 | <0.000184 <0.000183 | 0.0179 Not sampled as part of Quarterly Monitoring Event | <0.000184 Not sampled due to LNAPL present in well | 0.0232 Not sampled due to LNAPL present in well | <0.000184 Not sampled as part of Quarterly Monitoring Event | 0.0400 Not sampled due to LNAPL present in well | 0.0570 Not sampled due to LNAPL present in well | 0.0486 Not sampled due to LNAPL present in well | 0.0529 Not sampled due to LNAPL present in well | 0.0633 Not sampled due to LNAPL present in well | 0.00378 Not sampled due to LNAPL present in well |
| RW-8 | 12/3/08 12/2/09 11/23/10 12/3/15 | <0.000183 <0.000183 | 0.0128 Not sampled as part of Quarterly Monitoring Event | <0.000183 Not sampled due to LNAPL present in well | 0.0164 Not sampled due to LNAPL present in well | <0.000183 Not sampled as part of Quarterly Monitoring Event | 0.0145 Not sampled due to LNAPL present in well | <0.000183 Not sampled due to LNAPL present in well | 0.0496 Not sampled due to LNAPL present in well | 0.115 Not sampled due to LNAPL present in well | 0.106 Not sampled due to LNAPL present in well | 0.00891 Not sampled due to LNAPL present in well |
| RW-9 | 12/3/08 12/2/09 11/23/10 12/3/15 | <0.000184 <0.000917 | 0.00907 Not sampled as part of Quarterly Monitoring Event | <0.000184 Not sampled due to LNAPL present in well | 0.0112 Not sampled due to LNAPL present in well | <0.000184 Not sampled as part of Quarterly Monitoring Event | 0.00979 Not sampled due to LNAPL present in well | 0.0574 Not sampled due to LNAPL present in well | 0.0859 Not sampled due to LNAPL present in well | 0.0791 Not sampled due to LNAPL present in well | 0.00642 Not sampled due to LNAPL present in well | |

TABLE 3
GROUNDWATER PAH ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| Sample ID | Sample Date | Aceanthene | Aceanaphthylene | Anthracene | Benz(a)anthracene | Benz(a)pyrene | Benz(b)fluoranthene | Benz(g,h,i)perylene | Benz(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno[1,2,3-cd]pyrene | Phenanthrene | Pyrene | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene | Dibenzofuran | |
|--|---|---------------------------|---------------------------|---------------------------|---------------------------|------------------------------|------------------------------|------------------------------|------------------------------|--------------------------------|------------------------------|---------------------------|--------------------------------|---------------------------|-------------------------------|---------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|
| NMWQCC Drinking Water Standards Section 1-101.UU and 3-103.A | | | | | | | | | | | | | | | | | | | | | |
| RW-10 | 12/3/08 12/2/09 11/23/10 12/3/15 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | 0.001 | 0.007 | 0.002 | 0.002 | 0.002 | 0.003 | | | | | | | | | | |
| RW-11 | 12/3/08 12/2/09 11/23/10 12/3/15 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | | | | | | | | | | |
| RW-12 | 12/3/08 12/2/09 11/23/10 12/3/15 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | <0.000183 | | | | | | | | | | |
| RW-13 | 12/3/08 12/2/09 11/23/10 12/3/15 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | <0.000184 | 0.00409 | <0.000184 | <0.000184 | 0.0187 | <0.000184 | 0.0234 | <0.000184 | 0.0112 | 0.11 | 0.198 | 0.182 | 0.0143 |
| RW-14 | 11/20/14 12/3/15 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | <0.000198 | |
| RW-15 | 11/20/14 12/3/15 | <0.000190 | <0.000190 | <0.000190 | <0.000190 | <0.000190 | <0.000190 | <0.000190 | <0.000190 | <0.000190 | <0.000190 | <0.000190 | 0.00103 | <0.000190 | <0.000190 | <0.000190 | <0.000190 | 0.00952 | 0.0111 | 0.00569 | 0.00098 |
| Notes: | | | | | | | | | | | | | | | | | | | | | |
| 1. Shaded cells indicate New Mexico Water Control Commission Limit exceedance. | | | | | | | | | | | | | | | | | | | | | |
| 2. Bold indicates detection. | | | | | | | | | | | | | | | | | | | | | |
| 3. PAH analyses by EPA Method 8270. | | | | | | | | | | | | | | | | | | | | | |
| 4. Results shown in mg/L. | | | | | | | | | | | | | | | | | | | | | |
| 5. 2008 through 2010 analytical results collected by NOVA. | | | | | | | | | | | | | | | | | | | | | |

| <p style="text-align: center;">TABLE 4</p> <p style="text-align: center;">COLOR CODED TABLE (PSH, BENZENE AND CLEAN WELLS)</p> <p style="text-align: center;">PLAINS PIPELINE, L.P.</p> <p style="text-align: center;">DARR ANGELL NO. 4</p> <p style="text-align: center;">LEA COUNTY, NEW MEXICO</p> | | | | | | | | | |
|---|------------|------|----------------|-------|-------|------|------|------|------|
| | PSH (feet) | | Benzene (mg/L) | | Clean | | | | |
| | MW-1A | MW-2 | MW-3 | MW-3R | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 |
| 1st Quarter 2010 | NSC | NSC | | | NSC | NSC | | NSC | |
| 2nd Quarter 2010 | NSC | NSC | | | NSC | NSC | | NSC | |
| 3rd Quarter 2010 | NSC | NSC | | | NSC | NSC | | NSC | |
| 4th Quarter 2010 | | | | | | | | | |
| 1st Quarter 2011 | NSC | NSC | | | NSC | NSC | | NSC | |
| 2nd Quarter 2011 * | NSC | NSC | | | NSC | NSC | | NSC | |
| 3rd Quarter 2011 | NSC | NSC | | | NSC | NSC | | NSC | |
| 4th Quarter 2011 | | | --- | | | | | | --- |
| 1st Quarter 2012 | NSC | NSC | --- | | NSC | NSC | | NSC | 0.03 |
| 2nd Quarter 2012 | NSC | NSC | NS | | NSC | NSC | | NSC | |
| 3rd Quarter 2012 | NSC | NSC | DRY | | NSC | NSC | | NSC | DRY |
| 4th Quarter 2012 | | | DRY | | | | | | DRY |
| 1st Quarter 2013 | NSC | NSC | DRY | | NSC | NSC | | NSC | DRY |
| 2nd Quarter 2013 | NSC | NSC | DRY | | NSC | NSC | | NSC | DRY |
| 3rd Quarter 2013 | NSC | NSC | DRY | | NSC | NSC | | NSC | DRY |
| 4th Quarter 2013 | | DRY | DRY | | | | | | DRY |
| 1st Quarter 2014 | NSC | DRY | DRY | | NSC | NSC | | NSC | DRY |
| 2nd Quarter 2014 | NSC | NSC | DRY | | NSC | NSC | | NSC | DRY |
| 3rd Quarter 2014 | NSC | NSC | DRY | | NSC | NSC | | NSC | DRY |
| 4th Quarter 2014 | | DRY | DRY | 4.48 | NSC | | | NSC | DRY |
| 1st Quarter 2015 | NSC | DRY | P&A | | DRY | NSC | DRY | NSC | DRY |
| 2nd Quarter 2015 | NSC | DRY | | | DRY | NSC | NSC | NSC | DRY |
| 3rd Quarter 2015 | NSC | DRY | | | DRY | NSC | DRY | DRY | DRY |
| 4th Quarter 2015 | DRY | DRY | | | DRY | DRY | DRY | DRY | DRY |

| <p style="text-align: center;">TABLE 4 COLOR CODED TABLE (PSH, BENZENE AND CLEAN WELLS) PLAINS PIPELINE, L.P. DARR ANGELL NO. 4 LEA COUNTY, NEW MEXICO</p> | | | | | | | | | |
|---|-------------------|-------|-------|-----------------------|--------|--------------|-------|--------|-------|
| | PSH (feet) | | | Benzene (mg/L) | | Clean | | | |
| | MW-9 | MW-10 | MW-11 | MW-12 | MW-12R | MW-13 | MW-14 | MW-15 | MW-16 |
| 1st Quarter 2010 | NSC | | NSC | NSC | | NSC | | 0.0042 | |
| 2nd Quarter 2010 | | | NSC | NSC | | NSC | | | |
| 3rd Quarter 2010 | NSC | | NSC | NSC | | NSC | | | |
| 4th Quarter 2010 | | | | 0.658 | | | | | |
| 1st Quarter 2011 | NSC | | NSC | NSC | | NSC | | | |
| 2nd Quarter 2011 * | | | NSC | NSC | | NSC | | | |
| 3rd Quarter 2011 | NSC | | NSC | NSC | | NSC | | | |
| 4th Quarter 2011 | | | | 0.210 | | NSC | | | |
| 1st Quarter 2012 | NSC | | NSC | NSC | | NSC | | | |
| 2nd Quarter 2012 | | | NSC | NSC | | NSC | | | |
| 3rd Quarter 2012 | NSC | | NSC | NSC | | NSC | | | |
| 4th Quarter 2012 | | | | DRY | | DRY | | | |
| 1st Quarter 2013 | NSC | | NSC | DRY | | DRY | | | |
| 2nd Quarter 2013 | | | NSC | DRY | | DRY | | | |
| 3rd Quarter 2013 | NSC | | | DRY | | DRY | | | |
| 4th Quarter 2013 | | | | DRY | | DRY | | | |
| 1st Quarter 2014 | NSC | NSC | NSC | NSC | | DRY | | | |
| 2nd Quarter 2014 | | | NSC | DRY | | DRY | | | |
| 3rd Quarter 2014 | NSC | | | DRY | | NSC | | | |
| 4th Quarter 2014 | | | | DRY | | DRY | | | |
| 1st Quarter 2015 | NSC | DRY | NSC | P&A | | NSC | | | |
| 2nd Quarter 2015 | | NSC | NSC | | | NSC | | | |
| 3rd Quarter 2015 | NSC | DRY | NSC | | | DRY | | | |
| 4th Quarter 2015 | DRY | DRY | DRY | | | DRY | | | |

| <p style="text-align: center;">TABLE 4</p> <p style="text-align: center;">COLOR CODED TABLE (PSH, BENZENE AND CLEAN WELLS)</p> <p style="text-align: center;">PLAINS PIPELINE, L.P.</p> <p style="text-align: center;">DARR ANGELL NO. 4</p> <p style="text-align: center;">LEA COUNTY, NEW MEXICO</p> | | | | | | | | | |
|---|-------------------|------|-----------------------|-------|--------------|-------|--------|--------|------|
| | PSH (feet) | | Benzene (mg/L) | | Clean | | | | |
| | RW-1 | RW-2 | RW-3 | RW-3R | RW-4 | RW-4R | RW-5 | RW-6 | RW-7 |
| 1st Quarter 2010 | -- | 1.02 | 1.20 | | -- | | 0.0172 | 0.285 | .73 |
| 2nd Quarter 2010 | -- | 1.15 | -- | | -- | | 0.0120 | 0.278 | 1.79 |
| 3rd Quarter 2010 | 1.13 | 1.23 | 0.87 | | 0.54 | | | 0.147 | 0.24 |
| 4th Quarter 2010 | 1.14 | 1.27 | 0.88 | | -- | | | 0.248 | 0.27 |
| 1st Quarter 2011 | 1.23 | 1.20 | 0.82 | | -- | | | 0.04 | 0.27 |
| 2nd Quarter 2011 * | 3.97 | 0.44 | 0.31 | | 0.08 | | 0.0109 | 0.90 | 1.79 |
| 3rd Quarter 2011 | 2.78 | 1.05 | 0.08 | | DRY | | 0.0151 | 0.39 | 0.81 |
| 4th Quarter 2011 | 2.36 | 3.33 | DRY | | DRY | | | 0.0794 | --- |
| 1st Quarter 2012 | 2.08 | 3.19 | DRY | | DRY | | 0.0548 | 0.07 | 0.17 |
| 2nd Quarter 2012 | 3.25 | 2.36 | DRY | | DRY | | | NSC | 0.05 |
| 3rd Quarter 2012 | 3.22 | 2.20 | DRY | | DRY | | 0.0337 | NSC | 0.53 |
| 4th Quarter 2012 | 2.73 | 1.76 | DRY | | DRY | | | DRY | 0.35 |
| 1st Quarter 2013 | 2.85 | 1.00 | DRY | | DRY | | | | 0.79 |
| 2nd Quarter 2013 | 2.73 | 0.86 | DRY | | DRY | | 0.03 | DRY | 0.75 |
| 3rd Quarter 2013 | 2.58 | 0.98 | DRY | | DRY | | | DRY | 0.88 |
| 4th Quarter 2013 | 2.41 | 0.88 | DRY | | DRY | | | DRY | 1.00 |
| 1st Quarter 2014 | 2.20 | 0.30 | DRY | | DRY | | | NSC | 0.14 |
| 2nd Quarter 2014 | 1.95 | 3.17 | DRY | | DRY | | 0.001 | DRY | 0.05 |
| 3rd Quarter 2014 | 1.73 | 0.58 | NSC | | DRY | | | DRY | 0.04 |
| 4th Quarter 2014 | 1.77 | NS | DRY | 4.45 | DRY | 0.02 | NSC | DRY | 0.07 |
| 1st Quarter 2015 | 1.28 | 0.35 | | 4.65 | | 0.68 | | DRY | 0.06 |
| 2nd Quarter 2015 | 1.11 | 0.20 | | 1.94 | | 1.81 | NS | DRY | 0.10 |
| 3rd Quarter 2015 | 0.94 | 0.16 | | 1.61 | | 1.32 | DRY | DRY | 0.02 |
| 4th Quarter 2015 | 0.70 | 0.09 | | 3.43 | | 1.98 | DRY | DRY | 0.08 |

TABLE 4
COLOR CODED TABLE (PSH, BENZENE AND CLEAN WELLS)
PLAINS PIPELINE, L.P.
DARR ANGELL NO. 4
LEA COUNTY, NEW MEXICO

| | PSH (feet) | | Benzene (mg/L) | | Clean | | | |
|--------------------|------------|------|----------------|------------|-------|-------|--------|--------|
| | RW-8 | RW-9 | RW-10 | RW-11 | RW-12 | RW-13 | RW-14 | RW-15 |
| 1st Quarter 2010 | 1.41 | 1.64 | 4.34 | 5.74 | 0.95 | 0.930 | | |
| 2nd Quarter 2010 | 0.76 | 0.83 | 3.17 | 6.13 | 0.55 | 1.150 | | |
| 3rd Quarter 2010 | 0.66 | 0.76 | 3.25 | 6.13 | 0.33 | 0.537 | | |
| 4th Quarter 2010 | 0.68 | 0.72 | -- | 6.06 | 0.26 | 2.060 | | |
| 1st Quarter 2011 | 0.64 | 0.25 | 2.56 | 5.78 | 0.25 | 1.210 | | |
| 2nd Quarter 2011 * | 3.68 | 4.58 | 4.22 | 5.35 | 2.18 | 1.14 | | |
| 3rd Quarter 2011 | 2.44 | 3.59 | 2.56 | Pump Stuck | 1.06 | 0.19 | | |
| 4th Quarter 2011 | 1.21 | 0.43 | 2.56 | 5.19 | 0.28 | 1.08 | | |
| 1st Quarter 2012 | 0.02 | 0.85 | 1.24 | 4.50 | 0.17 | 0.24 | | |
| 2nd Quarter 2012 | 1.55 | 0.25 | 1.02 | 2.68 | 0.303 | 0.10 | | |
| 3rd Quarter 2012 | NS | 0.52 | 2.29 | 3.90 | 0.23 | 0.47 | | |
| 4th Quarter 2012 | 0.03 | 1.05 | 2.18 | 2.85 | 0.26 | 0.36 | | |
| 1st Quarter 2013 | 0.25 | 2.50 | 3.73 | 5.44 | 0.71 | 0.41 | | |
| 2nd Quarter 2013 | 0.58 | 2.12 | 3.60 | 5.64 | 0.96 | 0.71 | | |
| 3rd Quarter 2013 | 1.53 | 2.17 | 3.32 | 3.91 | 0.52 | 0.74 | | |
| 4th Quarter 2013 | 0.72 | 1.66 | 2.96 | 2.78 | 0.71 | 0.72 | | |
| 1st Quarter 2014 | 0.46 | 0.79 | 2.61 | 2.57 | 0.11 | 0.18 | | |
| 2nd Quarter 2014 | 2.53 | 1.99 | 2.68 | 5.08 | 0.11 | 0.22 | | |
| 3rd Quarter 2014 | 1.09 | 0.85 | 2.32 | 4.52 | 0.13 | 0.23 | | |
| 4th Quarter 2014 | NS | 1.39 | NS | NS | 0.01 | 0.25 | 0.0520 | 0.0101 |
| 1st Quarter 2015 | 2.56 | 0.39 | 1.42 | 3.02 | 0.07 | 0.15 | 0.0756 | 0.0262 |
| 2nd Quarter 2015 | 1.80 | 0.83 | 1.28 | 1.35 | 0.08 | 0.14 | NS | 0.0714 |
| 3rd Quarter 2015 | 1.69 | 0.31 | 0.39 | 1.07 | 0.01 | 0.01 | | 0.325 |
| 4th Quarter 2015 | 1.48 | 0.34 | 0.23 | 2.03 | 0.01 | 0.03 | 0.0217 | 0.413 |

* CRA took over for NOVA

NSC - Not Scheduled

NS - Not Sampled

Appendices

Appendix A

Certified Laboratory Reports



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

John Fergerson
CRA-Midland
2135 South Loop 250 West
Midland, TX, 79703

Report Date: March 13, 2015

Work Order: 15030911



Project Location: Lovington, NM
Project Name: Darr Angel #4
Project Number: 074684
SRS #: 2001-10876

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 |
|--------|---------------|--------|------------|------------|---------------|
| | | | 2015-03-05 | 12:30 | 2015-03-09 |
| 388361 | MW-12R-030515 | water | 2015-03-05 | 12:30 | 2015-03-09 |
| 388362 | MW-14-030515 | water | 2015-03-05 | 12:45 | 2015-03-09 |
| 388363 | MW-15-030515 | water | 2015-03-05 | 13:05 | 2015-03-09 |
| 388364 | MW-16-030515 | water | 2015-03-05 | 13:30 | 2015-03-09 |
| 388365 | DUP-1-030515 | water | 2015-03-05 | 00:00 | 2015-03-09 |
| 388366 | RW-14-030515 | water | 2015-03-05 | 14:35 | 2015-03-09 |
| 388367 | RW-15-030515 | water | 2015-03-05 | 15:05 | 2015-03-09 |
| 388368 | RW-5-030515 | water | 2015-03-05 | 15:20 | 2015-03-09 |
| 388369 | MW-3R-030515 | water | 2015-03-05 | 15:40 | 2015-03-09 |
| 388370 | DUP-2-030515 | water | 2015-03-05 | 00:00 | 2015-03-09 |

Notes

- **Work Order 15030911:** Air in some samples, analyze regardless

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



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

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| Sample 388362 (MW-14-030515) | 5 |
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Case Narrative

Samples for project Darr Angel #4 were received by TraceAnalysis, Inc. on 2015-03-09 and assigned to work order 15030911. Samples for work order 15030911 were received intact with headspace and at a temperature of .8 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 | 101463 | 2015-03-11 at 15:00 | 119945 | 2015-03-12 at 12:32 |
| BTEX | S 8021B | 101465 | 2015-03-12 at 10:28 | 119967 | 2015-03-13 at 08:26 |

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 15030911 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 13, 2015
074684

Work Order: 15030911
Darr Angel #4

Page Number: 5 of 18
Lovington, NM

Analytical Report

Sample: 388361 - MW-12R-030515

Laboratory: Midland

Analysis: BTEX

QC Batch: 119945

Prep Batch: 101463

Analytical Method: S 8021B

Date Analyzed: 2015-03-12

Sample Preparation: 2015-03-11

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0842 | mg/L | 1 | 0.100 | 84 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.109 | mg/L | 1 | 0.100 | 109 | 70 - 130 |

Sample: 388362 - MW-14-030515

Laboratory: Midland

Analysis: BTEX

QC Batch: 119945

Prep Batch: 101463

Analytical Method: S 8021B

Date Analyzed: 2015-03-12

Sample Preparation: 2015-03-11

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0860 | mg/L | 1 | 0.100 | 86 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0996 | mg/L | 1 | 0.100 | 100 | 70 - 130 |

Report Date: March 13, 2015
074684

Work Order: 15030911
Darr Angel #4

Page Number: 6 of 18
Lovington, NM

Sample: 388363 - MW-15-030515

Laboratory: Midland
Analysis: BTEX
QC Batch: 119945
Prep Batch: 101463

Analytical Method: S 8021B
Date Analyzed: 2015-03-12
Sample Preparation: 2015-03-11

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

| Parameter | Flag | Cert | RL | | Dilution | RL | | |
|------------------------------|------|------|----------|-------|----------|---------|-----|----------|
| | | | Result | Units | | | | |
| Benzene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Toluene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Ethylbenzene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Xylene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | | |
| | | | | | | Amount | | |
| Trifluorotoluene (TFT) | | | 0.0844 | mg/L | 1 | 0.100 | 84 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.102 | mg/L | 1 | 0.100 | 102 | 70 - 130 |

Sample: 388364 - MW-16-030515

Laboratory: Midland
Analysis: BTEX
QC Batch: 119967
Prep Batch: 101465

Analytical Method: S 8021B
Date Analyzed: 2015-03-13
Sample Preparation: 2015-03-12

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

| Parameter | Flag | Cert | RL | | Dilution | RL | | |
|------------------------------|------|------|----------|-------|----------|---------|-----|----------|
| | | | Result | Units | | | | |
| Benzene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Toluene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Ethylbenzene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Xylene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | | |
| | | | | | | Amount | | |
| Trifluorotoluene (TFT) | | | 0.0870 | mg/L | 1 | 0.100 | 87 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.104 | mg/L | 1 | 0.100 | 104 | 70 - 130 |

Report Date: March 13, 2015
074684

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Darr Angel #4

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Lovington, NM

Sample: 388365 - DUP-1-030515

Laboratory: Midland
Analysis: BTEX
QC Batch: 119967
Prep Batch: 101465

Analytical Method: S 8021B
Date Analyzed: 2015-03-13
Sample Preparation: 2015-03-12

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

| Parameter | Flag | Cert | RL | | Dilution | RL |
|--------------|------|------|----------|-------|----------|---------|
| | | | Result | Units | | |
| Benzene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.0953 | mg/L | 1 | 0.100 | 95 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0978 | mg/L | 1 | 0.100 | 98 | 70 - 130 |

Sample: 388366 - RW-14-030515

Laboratory: Midland
Analysis: BTEX
QC Batch: 119967
Prep Batch: 101465

Analytical Method: S 8021B
Date Analyzed: 2015-03-13
Sample Preparation: 2015-03-12

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

| Parameter | Flag | Cert | RL | | Dilution | RL |
|--------------|------|------|---------------|-------|----------|---------|
| | | | Result | Units | | |
| Benzene | | 8 | 0.0756 | mg/L | 1 | 0.00100 |
| Toluene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | 8 | 0.0663 | mg/L | 1 | 0.00100 |
| Xylene | | 8 | 0.0217 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.0909 | mg/L | 1 | 0.100 | 91 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.107 | mg/L | 1 | 0.100 | 107 | 70 - 130 |

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074684

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Darr Angel #4

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Lovington, NM

Sample: 388367 - RW-15-030515

Laboratory: Midland
Analysis: BTEX
QC Batch: 119967
Prep Batch: 101465

Analytical Method: S 8021B
Date Analyzed: 2015-03-13
Sample Preparation: 2015-03-12

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

| Parameter | Flag | Cert | RL | | Dilution | RL | | |
|------------------------------|------|------|----------------|-------|----------|---------|-----|----------|
| | | | Result | Units | | | | |
| Benzene | | s | 0.0262 | mg/L | 1 | 0.00100 | | |
| Toluene | | s | 0.00590 | mg/L | 1 | 0.00100 | | |
| Ethylbenzene | | s | 0.0495 | mg/L | 1 | 0.00100 | | |
| Xylene | | s | 0.120 | mg/L | 1 | 0.00100 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | | |
| | | | | | | Amount | | |
| Trifluorotoluene (TFT) | | | 0.106 | mg/L | 1 | 0.100 | 106 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.110 | mg/L | 1 | 0.100 | 110 | 70 - 130 |

Sample: 388368 - RW-5-030515

Laboratory: Midland
Analysis: BTEX
QC Batch: 119967
Prep Batch: 101465

Analytical Method: S 8021B
Date Analyzed: 2015-03-13
Sample Preparation: 2015-03-12

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

| Parameter | Flag | Cert | RL | | Dilution | RL | | |
|------------------------------|------|------|----------|-------|----------|---------|-----|----------|
| | | | Result | Units | | | | |
| Benzene | 1 | u | <0.00500 | mg/L | 5 | 0.00100 | | |
| Toluene | | u | <0.00500 | mg/L | 5 | 0.00100 | | |
| Ethylbenzene | | u | <0.00500 | mg/L | 5 | 0.00100 | | |
| Xylene | | u | <0.00500 | mg/L | 5 | 0.00100 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | | |
| | | | | | | Amount | | |
| Trifluorotoluene (TFT) | | | 0.463 | mg/L | 5 | 0.500 | 93 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.509 | mg/L | 5 | 0.500 | 102 | 70 - 130 |

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074684

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Darr Angel #4

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Lovington, NM

Sample: 388369 - MW-3R-030515

Laboratory: Midland
Analysis: BTEX
QC Batch: 119967
Prep Batch: 101465

Analytical Method: S 8021B
Date Analyzed: 2015-03-13
Sample Preparation: 2015-03-12

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

| Parameter | Flag | Cert | RL | | Dilution | RL |
|--------------|------|------|----------|-------|----------|---------|
| | | | Result | Units | | |
| Benzene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.0907 | mg/L | 1 | 0.100 | 91 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0948 | mg/L | 1 | 0.100 | 95 | 70 - 130 |

Sample: 388370 - DUP-2-030515

Laboratory: Midland
Analysis: BTEX
QC Batch: 119967
Prep Batch: 101465

Analytical Method: S 8021B
Date Analyzed: 2015-03-13
Sample Preparation: 2015-03-12

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

| Parameter | Flag | Cert | RL | | Dilution | RL |
|--------------|------|------|----------|-------|----------|---------|
| | | | Result | Units | | |
| Benzene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | U | 8 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.0950 | mg/L | 1 | 0.100 | 95 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0961 | mg/L | 1 | 0.100 | 96 | 70 - 130 |

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074684

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Darr Angel #4

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Lovington, NM

Method Blanks

Method Blank (1) QC Batch: 119945

QC Batch: 119945 Date Analyzed: 2015-03-12 Analyzed By: AK
Prep Batch: 101463 QC Preparation: 2015-03-11 Prepared By: AK

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0906 | mg/L | 1 | 0.100 | 91 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.102 | mg/L | 1 | 0.100 | 102 | 70 - 130 |

Method Blank (1) QC Batch: 119967

QC Batch: 119967 Date Analyzed: 2015-03-13 Analyzed By: AK
Prep Batch: 101465 QC Preparation: 2015-03-12 Prepared By: AK

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0857 | mg/L | 1 | 0.100 | 86 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.101 | mg/L | 1 | 0.100 | 101 | 70 - 130 |

Report Date: March 13, 2015
074684

Work Order: 15030911
Darr Angel #4

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Lovington, NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 119945
Prep Batch: 101463

Date Analyzed: 2015-03-12
QC Preparation: 2015-03-11

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Benzene | | s | 0.101 | mg/L | 1 | 0.100 | <0.000299 | 101 | 70 - 130 |
| Toluene | | s | 0.0977 | mg/L | 1 | 0.100 | <0.000247 | 98 | 70 - 130 |
| Ethylbenzene | | s | 0.0990 | mg/L | 1 | 0.100 | <0.000423 | 99 | 70 - 130 |
| Xylene | | s | 0.301 | mg/L | 1 | 0.300 | <0.000552 | 100 | 70 - 130 |

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 | | s | 0.0912 | mg/L | 1 | 0.100 | <0.000299 | 91 | 70 - 130 | 10 | 20 |
| Toluene | | s | 0.0949 | mg/L | 1 | 0.100 | <0.000247 | 95 | 70 - 130 | 3 | 20 |
| Ethylbenzene | | s | 0.0985 | mg/L | 1 | 0.100 | <0.000423 | 98 | 70 - 130 | 0 | 20 |
| Xylene | | s | 0.297 | mg/L | 1 | 0.300 | <0.000552 | 99 | 70 - 130 | 1 | 20 |

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

| Surrogate | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|--|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT) | | 0.0864 | 0.0867 | mg/L | 1 | 0.100 | 86 | 87 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 0.104 | 0.103 | mg/L | 1 | 0.100 | 104 | 103 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 119967
Prep Batch: 101465

Date Analyzed: 2015-03-13
QC Preparation: 2015-03-12

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Benzene | | s | 0.0988 | mg/L | 1 | 0.100 | <0.000299 | 99 | 70 - 130 |
| Toluene | | s | 0.0972 | mg/L | 1 | 0.100 | <0.000247 | 97 | 70 - 130 |
| Ethylbenzene | | s | 0.0978 | mg/L | 1 | 0.100 | <0.000423 | 98 | 70 - 130 |
| Xylene | | s | 0.299 | mg/L | 1 | 0.300 | <0.000552 | 100 | 70 - 130 |

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

Report Date: March 13, 2015
074684

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| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|----------------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
| Benzene | | s | 0.0956 | mg/L | 1 | 0.100 | <0.000299 | 96 | 70 - 130 | 3 | 20 |
| Toluene | | s | 0.0948 | mg/L | 1 | 0.100 | <0.000247 | 95 | 70 - 130 | 2 | 20 |
| Ethylbenzene | | s | 0.0952 | mg/L | 1 | 0.100 | <0.000423 | 95 | 70 - 130 | 3 | 20 |
| Xylene | | s | 0.289 | mg/L | 1 | 0.300 | <0.000552 | 96 | 70 - 130 | 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) | 0.0832 | 0.0863 | mg/L | 1 | 0.100 | 83 | 86 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.101 | 0.101 | mg/L | 1 | 0.100 | 101 | 101 | 70 - 130 |

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Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 388346

QC Batch: 119945
Prep Batch: 101463

Date Analyzed: 2015-03-12
QC Preparation: 2015-03-11

Analyzed By: AK
Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | | s | 0.0998 | mg/L | 1 | 0.100 | <0.000299 | 100 | 70 - 130 |
| Toluene | | s | 0.0976 | mg/L | 1 | 0.100 | <0.000247 | 98 | 70 - 130 |
| Ethylbenzene | | s | 0.0966 | mg/L | 1 | 0.100 | <0.000423 | 97 | 70 - 130 |
| Xylene | | s | 0.294 | mg/L | 1 | 0.300 | <0.000552 | 98 | 70 - 130 |

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

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | | s | 0.0999 | mg/L | 1 | 0.100 | <0.000299 | 100 | 70 - 130 | 0 | 20 |
| Toluene | | s | 0.0998 | mg/L | 1 | 0.100 | <0.000247 | 100 | 70 - 130 | 2 | 20 |
| Ethylbenzene | | s | 0.0992 | mg/L | 1 | 0.100 | <0.000423 | 99 | 70 - 130 | 3 | 20 |
| Xylene | | s | 0.301 | mg/L | 1 | 0.300 | <0.000552 | 100 | 70 - 130 | 2 | 20 |

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

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. | Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|----------|-------|
| Trifluorotoluene (TFT) | 0.0845 | 0.0861 | mg/L | 1 | 0.1 | 84 | 86 | 70 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | 0.100 | 0.103 | mg/L | 1 | 0.1 | 100 | 103 | 70 - 130 | |

Matrix Spike (MS-1) Spiked Sample: 388364

QC Batch: 119967
Prep Batch: 101465

Date Analyzed: 2015-03-13
QC Preparation: 2015-03-12

Analyzed By: AK
Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | | s | 0.0998 | mg/L | 1 | 0.100 | <0.000299 | 100 | 70 - 130 |
| Toluene | | s | 0.0980 | mg/L | 1 | 0.100 | <0.000247 | 98 | 70 - 130 |
| Ethylbenzene | | s | 0.0987 | mg/L | 1 | 0.100 | <0.000423 | 99 | 70 - 130 |
| Xylene | | s | 0.297 | mg/L | 1 | 0.300 | <0.000552 | 99 | 70 - 130 |

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

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074684

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| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | | s | 0.102 | mg/L | 1 | 0.100 | <0.000299 | 102 | 70 - 130 | 2 | 20 |
| Toluene | | s | 0.0988 | mg/L | 1 | 0.100 | <0.000247 | 99 | 70 - 130 | 1 | 20 |
| Ethylbenzene | | s | 0.101 | mg/L | 1 | 0.100 | <0.000423 | 101 | 70 - 130 | 2 | 20 |
| Xylene | | s | 0.302 | mg/L | 1 | 0.300 | <0.000552 | 101 | 70 - 130 | 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) | 0.0830 | 0.0847 | mg/L | 1 | 0.1 | 83 | 85 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.101 | 0.103 | mg/L | 1 | 0.1 | 101 | 103 | 70 - 130 |

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074684

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Lovington, NM

Calibration Standards

Standard (CCV-2)

| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date Analyzed |
|--------------|------|------|-------|-------|--------|---------|----------|---------------|
| | | | | True | Found | Percent | Recovery | |
| Benzene | s | | mg/L | 0.100 | 0.0986 | 99 | 80 - 120 | 2015-03-12 |
| Toluene | s | | mg/L | 0.100 | 0.0955 | 96 | 80 - 120 | 2015-03-12 |
| Ethylbenzene | s | | mg/L | 0.100 | 0.0969 | 97 | 80 - 120 | 2015-03-12 |
| Xylene | s | | mg/L | 0.300 | 0.294 | 98 | 80 - 120 | 2015-03-12 |

Standard (CCV-3)

| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date Analyzed |
|--------------|------|------|-------|-------|--------|---------|----------|---------------|
| | | | | True | Found | Percent | Recovery | |
| Benzene | s | | mg/L | 0.100 | 0.0990 | 99 | 80 - 120 | 2015-03-12 |
| Toluene | s | | mg/L | 0.100 | 0.0958 | 96 | 80 - 120 | 2015-03-12 |
| Ethylbenzene | s | | mg/L | 0.100 | 0.0965 | 96 | 80 - 120 | 2015-03-12 |
| Xylene | s | | mg/L | 0.300 | 0.292 | 97 | 80 - 120 | 2015-03-12 |

Standard (CCV-1)

| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date Analyzed |
|--------------|------|------|-------|-------|--------|---------|----------|---------------|
| | | | | True | Found | Percent | Recovery | |
| Benzene | s | | mg/L | 0.100 | 0.0990 | 99 | 80 - 120 | 2015-03-13 |
| Toluene | s | | mg/L | 0.100 | 0.0958 | 96 | 80 - 120 | 2015-03-13 |
| Ethylbenzene | s | | mg/L | 0.100 | 0.0965 | 96 | 80 - 120 | 2015-03-13 |
| Xylene | s | | mg/L | 0.300 | 0.292 | 97 | 80 - 120 | 2015-03-13 |

Report Date: March 13, 2015
074684

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Standard (CCV-2)

QC Batch: 119967

Date Analyzed: 2015-03-13

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | s | mg/L | 0.100 | 0.0977 | 98 | 80 - 120 | 2015-03-13 |
| Toluene | | s | mg/L | 0.100 | 0.0975 | 98 | 80 - 120 | 2015-03-13 |
| Ethylbenzene | | s | mg/L | 0.100 | 0.0948 | 95 | 80 - 120 | 2015-03-13 |
| Xylene | | s | mg/L | 0.300 | 0.288 | 96 | 80 - 120 | 2015-03-13 |

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 | PJLA | L14-103 | El Paso |
| 2 | PJLA | L14-93 | Lubbock |
| 3 | Kansas | Kansas E-10317 | Lubbock |
| 4 | LELAP | LELAP-02002 | El Paso |
| 5 | LELAP | LELAP-02003 | Lubbock |
| 6 | NELAP | T104704221-15-6 | El Paso |
| 7 | NELAP | T104704219-14-10 | Lubbock |
| 8 | NELAP | T104704392-14-8 | Midland |
| 9 | | 2014-018 | Lubbock |

Standard Flags

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

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074684

Work Order: 15030911
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| F | Description |
|-----|--|
| 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 Dilution due to surfactants.

Attachments

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

TraceAnalysis, Inc.

email: lab@traceanalysis.com

CONTRACTORS & ASSOC.

Address: Street City Zip: 250 W, MIDLAND, TX 77803

Contact Person: MRS. KIMBERLY JOHN PETERSON

Invoice to:

(If different from above)

Project #: 074684

Project Location (including state):

Lefthand PLAINS - CANJUE BRYANT

Project Name:

Signature:

DAKAR ANGELA MEDEO

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Copyright:

Phone #: 832-666-0066
Fax #:**ANALYSIS REQUEST**
(Circle or Specify Method No.)

- Hold Turn Around Time if different from standard
- Na, Ca, Mg, K, TDS, EC
- Cl, F, SO₄, NO₃-N, NO₂-N, PO₄-P, Alkalinity
- Moisture Content
- BOD, TSS, PH
- Pesticides 8081 / 608
- PCBs 8082 / 608
- GC/MS Semi. Vol. 8270 / 625
- GC/MS Vol. 8260 / 624
- RCI
- TCLP Pesticides
- TCLP Semivolatiles
- TCLP Volatiles
- Total Metals Ag As Ba Cd Cr Pb Se Hg
- TOTAL METALS AG AS BA CD CR PB SE HG 6010/2007
- PAH 8270 / 625
- TPH 8015 GRO / DRO / TVHC
- TPH 418.1 / TX1005 / TX1005 Ext(C35)
- MTEB 8021 / 602 / 8260 / 624
- BTEx 8021 / 602 / 8260 / 624

| LAB # | FIELD CODE | # CONTAINERS | VOLUME / AMOUNT | WATER | SOIL | AIR | SLUDGE | DATE | TIME | SAMPLING | | | PRESERVATIVE METHOD | MATRIX | PROJECT NAME | Sampler Signature: | Project Name: | E-mail: | Fax #: | Comments: | REMARKS: | |
|--|----------------------|-----------------------|-------------------|---|----------------------|-----------------------|-------------------|--|---|---|--------------|--------------|---------------------|--|--------------|--------------------|---------------|---------|--------|-----------|----------|--|
| | | | | | | | | | | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | | | | | | | | | | |
| 388361 | MW-12R-030515 | 3 | | | | | | | 1230 | | | | | | | | | | | | | |
| 3862 | MW-14-030515 | | | | | | | | 1245 | | | | | | | | | | | | | |
| 3833 | MW-15-030515 | | | | | | | | 1305 | | | | | | | | | | | | | |
| 3844 | MW-16-030515 | | | | | | | | 1330 | | | | | | | | | | | | | |
| 3855 | DUP-1-030515 | | | | | | | | — | | | | | | | | | | | | | |
| 3866 | RW-14-030515 | | | | | | | | 1435 | | | | | | | | | | | | | |
| 3877 | RW-15-030515 | | | | | | | | 1505 | | | | | | | | | | | | | |
| 3888 | RW-5-030515 | 2 | | | | | | | 1520 | | | | | | | | | | | | | |
| 3899 | MW-3R-030515 | 3 | | | | | | | 1540 | | | | | | | | | | | | | |
| 3910 | DUP-2-030515 | | | | | | | | — | | | | | | | | | | | | | |
| Reinquished by: <i>Kevin Whetstone CEA Photos 10/29/11</i> | Company: <i>3910</i> | Date: <i>10/29/11</i> | Time: <i>9:29</i> | Received by: <i>Kevin Whetstone CEA Photos 10/29/11</i> | Company: <i>3910</i> | Date: <i>10/29/11</i> | Time: <i>9:29</i> | INST <input checked="" type="checkbox"/> | OBS <input checked="" type="checkbox"/> | COR <input checked="" type="checkbox"/> | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | REMARKS: <i>Air in Some Samples, Analyses Reg and Loss</i> | | | | | | | | |
| Reinquished by: <i>Kevin Whetstone CEA Photos 10/29/11</i> | Company: <i>3910</i> | Date: <i>10/29/11</i> | Time: <i>9:29</i> | Received by: <i>Kevin Whetstone CEA Photos 10/29/11</i> | Company: <i>3910</i> | Date: <i>10/29/11</i> | Time: <i>9:29</i> | INST <input checked="" type="checkbox"/> | OBS <input checked="" type="checkbox"/> | COR <input checked="" type="checkbox"/> | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | REMARKS: <i>Air in Some Samples, Analyses Reg and Loss</i> | | | | | | | | |
| Reinquished by: <i>Kevin Whetstone CEA Photos 10/29/11</i> | Company: <i>3910</i> | Date: <i>10/29/11</i> | Time: <i>9:29</i> | Received by: <i>Kevin Whetstone CEA Photos 10/29/11</i> | Company: <i>3910</i> | Date: <i>10/29/11</i> | Time: <i>9:29</i> | INST <input checked="" type="checkbox"/> | OBS <input checked="" type="checkbox"/> | COR <input checked="" type="checkbox"/> | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | REMARKS: <i>Air in Some Samples, Analyses Reg and Loss</i> | | | | | | | | |

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.
ORIGINAL COPYCarrier # *Car204-1*

Dry Weight Basis Required

TRRP Report Required

Check If Special Reporting

Limits Are Needed

TRACEANALYSIS, INC.

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

(Corrected Report)

John Fergerson
CRA-Midland
2135 South Loop 250 West
Midland, TX, 79703

Report Date: June 22, 2015

Work Order: 15060821



Project Location: Lea Co, NM
Project Name: Darr #4
Project Number: 074684 (2)

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 |
|--------|---------------|--------|------------|------------|---------------|
| 394950 | MW-9-060515 | water | 2015-06-05 | 07:50 | 2015-06-08 |
| 394951 | MW-14-060515 | water | 2015-06-05 | 08:30 | 2015-06-08 |
| 394952 | MW-15-060515 | water | 2015-06-05 | 09:15 | 2015-06-08 |
| 394953 | MW-3R-060515 | water | 2015-06-05 | 10:40 | 2015-06-08 |
| 394954 | MW-12R-060515 | water | 2015-06-05 | 11:20 | 2015-06-08 |
| 394955 | MW-16-060515 | water | 2015-06-05 | 12:10 | 2015-06-08 |
| 394956 | RW-15-060515 | water | 2015-06-05 | 13:30 | 2015-06-08 |
| 394957 | Dup-1-060515 | water | 2015-06-05 | 00:00 | 2015-06-08 |

Report Corrections (Work Order 15060821)

- 6/22/15: Reran BTEX on sample 394954.

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

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

This report consists of a total of 26 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



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

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Case Narrative

Samples for project Darr #4 were received by TraceAnalysis, Inc. on 2015-06-08 and assigned to work order 15060821. Samples for work order 15060821 were received intact at a temperature of 10.5 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 | 103389 | 2015-06-10 at 15:38 | 122199 | 2015-06-10 at 15:38 |
| BTEX | S 8021B | 103423 | 2015-06-11 at 15:31 | 122241 | 2015-06-11 at 15:31 |
| BTEX | S 8021B | 103593 | 2015-06-18 at 14:25 | 122453 | 2015-06-18 at 14:25 |
| TX1005 Extended - NEW | TX1005 | 103387 | 2015-06-11 at 04:51 | 122222 | 2015-06-11 at 12:31 |
| TX1005 Extended - NEW | TX1005 | 103441 | 2015-06-11 at 14:00 | 122279 | 2015-06-15 at 09:02 |

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15060821 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 22, 2015
074684 (2)

Work Order: 15060821
Darr #4

Page Number: 6 of 26
Lea Co, NM

Analytical Report

Sample: 394950 - MW-9-060515

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 122199

Prep Batch: 103389

Analytical Method: S 8021B

Date Analyzed: 2015-06-10

Sample Preparation: 2015-06-10

Prep Method: S 5030B

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|-----------|----------|-------|----------|---------|
| Benzene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | 5 | 0.0888 | mg/L | 1 | 0.100 | 89 | 74.6 - 120 | |
| 4-Bromofluorobenzene (4-BFB) | 5 | 0.0851 | mg/L | 1 | 0.100 | 85 | 72.9 - 120 | |

Sample: 394950 - MW-9-060515

Laboratory: Lubbock

Analysis: TX1005 Extended - NEW

QC Batch: 122279

Prep Batch: 103441

Analytical Method: TX1005

Date Analyzed: 2015-06-15

Sample Preparation: 2015-06-11

Prep Method: N/A

Analyzed By: SM

Prepared By: SM

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| C6-C12 | U | 1,4 | <5.00 | mg/L | 1 | 5.00 |
| >C12-C35 | U | 1,4 | <5.00 | mg/L | 1 | 5.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Triacontane | | | 2.72 | mg/L | 1 | 2.50 | 109 | 70.2 - 133 |
| n-Octane | | | 2.54 | mg/L | 1 | 2.50 | 102 | 70.5 - 140 |
| n-Tricosane | | | 2.76 | mg/L | 1 | 2.50 | 110 | 75 - 128 |

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Sample: 394951 - MW-14-060515

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2015-06-10 | Analyzed By: | JS |
| QC Batch: | 122199 | Sample Preparation: | 2015-06-10 | Prepared By: | JS |
| Prep Batch: | 103389 | | | | |

| Parameter | Flag | Cert | RL | | Dilution | RL |
|--------------|------|-----------|----------|-------|----------|---------|
| | | | Result | Units | | |
| Benzene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|------------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | 5 | 0.0877 | mg/L | 1 | 0.100 | 88 | 74.6 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 0.0840 | mg/L | 1 | 0.100 | 84 | 72.9 - 120 |

Sample: 394951 - MW-14-060515

| | | | | | |
|-------------|-----------------------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | TX1005 | Prep Method: | N/A |
| Analysis: | TX1005 Extended - NEW | Date Analyzed: | 2015-06-15 | Analyzed By: | SM |
| QC Batch: | 122279 | Sample Preparation: | 2015-06-11 | Prepared By: | SM |
| Prep Batch: | 103441 | | | | |

| Parameter | Flag | Cert | RL | | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| | | | Result | Units | | |
| C6-C12 | U | 1,4 | <5.00 | mg/L | 1 | 5.00 |
| >C12-C35 | U | 1,4 | <5.00 | mg/L | 1 | 5.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|---------------|------|------|--------|-------|----------|--------|----------|------------|
| | | | | | | Amount | Recovery | Limits |
| n-Triacontane | | | 2.64 | mg/L | 1 | 2.50 | 106 | 70.2 - 133 |
| n-Octane | | | 2.49 | mg/L | 1 | 2.50 | 100 | 70.5 - 140 |
| n-Tricosane | | | 2.66 | mg/L | 1 | 2.50 | 106 | 75 - 128 |

Sample: 394952 - MW-15-060515

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2015-06-10 | Analyzed By: | JS |
| QC Batch: | 122199 | Sample Preparation: | 2015-06-10 | Prepared By: | JS |
| Prep Batch: | 103389 | | | | |

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| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|-----------|----------|-------|----------|---------|
| Benzene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | 5 | 0.0882 | mg/L | 1 | 0.100 | 88 | 74.6 - 120 | |
| 4-Bromofluorobenzene (4-BFB) | 5 | 0.0846 | mg/L | 1 | 0.100 | 85 | 72.9 - 120 | |

Sample: 394952 - MW-15-060515

Laboratory: Lubbock
Analysis: TX1005 Extended - NEW
QC Batch: 122279
Prep Batch: 103441

Analytical Method: TX1005
Date Analyzed: 2015-06-15
Sample Preparation: 2015-06-11

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

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| C6-C12 | U | 1,4 | <5.00 | mg/L | 1 | 5.00 |
| >C12-C35 | U | 1,4 | <5.00 | mg/L | 1 | 5.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Triacontane | | 2.67 | mg/L | 1 | 2.50 | 107 | 70.2 - 133 | |
| n-Octane | | 2.49 | mg/L | 1 | 2.50 | 100 | 70.5 - 140 | |
| n-Tricosane | | 2.69 | mg/L | 1 | 2.50 | 108 | 75 - 128 | |

Sample: 394953 - MW-3R-060515

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122199
Prep Batch: 103389

Analytical Method: S 8021B
Date Analyzed: 2015-06-10
Sample Preparation: 2015-06-10

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

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|-----------|----------|-------|----------|---------|
| Benzene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |

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| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 5 | 0.0882 | mg/L | 1 | 0.100 | 88 | 74.6 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 0.0851 | mg/L | 1 | 0.100 | 85 | 72.9 - 120 |

Sample: 394953 - MW-3R-060515

Laboratory: Lubbock
Analysis: TX1005 Extended - NEW
QC Batch: 122279
Prep Batch: 103441

Analytical Method: TX1005
Date Analyzed: 2015-06-15
Sample Preparation: 2015-06-11

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

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| C6-C12 | U | 1,4 | <5.00 | mg/L | 1 | 5.00 |
| >C12-C35 | U | 1,4 | <5.00 | mg/L | 1 | 5.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Triacontane | | | 2.39 | mg/L | 1 | 2.50 | 96 | 70.2 - 133 |
| n-Octane | | | 2.24 | mg/L | 1 | 2.50 | 90 | 70.5 - 140 |
| n-Tricosane | | | 2.41 | mg/L | 1 | 2.50 | 96 | 75 - 128 |

Sample: 394954 - MW-12R-060515

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122453
Prep Batch: 103593

Analytical Method: S 8021B
Date Analyzed: 2015-06-18
Sample Preparation: 2015-06-18

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

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|-----------|----------|-------|----------|---------|
| Benzene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 5 | 0.0969 | mg/L | 1 | 0.100 | 97 | 74.6 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 0.0961 | mg/L | 1 | 0.100 | 96 | 72.9 - 120 |

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Sample: 394954 - MW-12R-060515

| | | | | | |
|-------------|-----------------------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | TX1005 | Prep Method: | N/A |
| Analysis: | TX1005 Extended - NEW | Date Analyzed: | 2015-06-15 | Analyzed By: | SM |
| QC Batch: | 122279 | Sample Preparation: | 2015-06-11 | Prepared By: | SM |
| Prep Batch: | 103441 | | | | |

| Parameter | Flag | Cert | RL | | Dilution | RL |
|---------------|------|------|--------|-------|----------|--------------|
| | | | Result | Units | | |
| C6-C12 | U | 1,4 | <5.00 | mg/L | 1 | 5.00 |
| >C12-C35 | U | 1,4 | <5.00 | mg/L | 1 | 5.00 |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount |
| n-Triacontane | | | 2.74 | mg/L | 1 | 2.50 |
| n-Octane | | | 2.68 | mg/L | 1 | 2.50 |
| n-Tricosane | | | 2.79 | mg/L | 1 | 2.50 |

Sample: 394955 - MW-16-060515

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2015-06-11 | Analyzed By: | JS |
| QC Batch: | 122241 | Sample Preparation: | 2015-06-11 | Prepared By: | JS |
| Prep Batch: | 103423 | | | | |

| Parameter | Flag | Cert | RL | | Dilution | RL |
|------------------------------|------|-----------|----------|-------|----------|--------------|
| | | | Result | Units | | |
| Benzene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount |
| Trifluorotoluene (TFT) | 5 | 0.0876 | mg/L | 1 | 0.100 | 88 |
| 4-Bromofluorobenzene (4-BFB) | 5 | 0.0835 | mg/L | 1 | 0.100 | 84 |

Sample: 394955 - MW-16-060515

| | | | | | |
|-------------|-----------------------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | TX1005 | Prep Method: | N/A |
| Analysis: | TX1005 Extended - NEW | Date Analyzed: | 2015-06-15 | Analyzed By: | SM |
| QC Batch: | 122279 | Sample Preparation: | 2015-06-11 | Prepared By: | SM |
| Prep Batch: | 103441 | | | | |

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| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|---------------|------|------|--------|-------|--------------|------------------|
| C6-C12 | U | 1,4 | <5.00 | mg/L | 1 | 5.00 |
| >C12-C35 | | 1,4 | <5.00 | mg/L | 1 | 5.00 |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery |
| n-Triacontane | | 2.64 | mg/L | 1 | 2.50 | 106 |
| n-Octane | | 2.51 | mg/L | 1 | 2.50 | 100 |
| n-Tricosane | | 2.69 | mg/L | 1 | 2.50 | 108 |

Sample: 394956 - RW-15-060515

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122241
Prep Batch: 103423

Analytical Method: S 8021B
Date Analyzed: 2015-06-11
Sample Preparation: 2015-06-11

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

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|-----------|---------------|-------|----------|---------|
| Benzene | | 1,2,3,4,5 | 0.0714 | mg/L | 1 | 0.00100 |
| Toluene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | 1,2,3,4,5 | 0.0539 | mg/L | 1 | 0.00100 |
| Xylene | | 1,2,3,4,5 | 0.0345 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 5 | 0.0875 | mg/L | 1 | 0.100 | 88 | 74.6 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 0.0886 | mg/L | 1 | 0.100 | 89 | 72.9 - 120 |

Sample: 394956 - RW-15-060515

Laboratory: Lubbock
Analysis: TX1005 Extended - NEW
QC Batch: 122279
Prep Batch: 103441

Analytical Method: TX1005
Date Analyzed: 2015-06-15
Sample Preparation: 2015-06-11

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

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| C6-C12 | U | 1,4 | <5.00 | mg/L | 1 | 5.00 |
| >C12-C35 | U | 1,4 | <5.00 | mg/L | 1 | 5.00 |

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| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Triacontane | | | 2.43 | mg/L | 1 | 2.50 | 97 | 70.2 - 133 |
| n-Octane | | | 2.27 | mg/L | 1 | 2.50 | 91 | 70.5 - 140 |
| n-Tricosane | | | 2.46 | mg/L | 1 | 2.50 | 98 | 75 - 128 |

Sample: 394957 - Dup-1-060515

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 122241
Prep Batch: 103423

Analytical Method: S 8021B
Date Analyzed: 2015-06-11
Sample Preparation: 2015-06-11

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

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|-----------|---------------|-------|----------|---------|
| Benzene | | 1,2,3,4,5 | 0.0823 | mg/L | 1 | 0.00100 |
| Toluene | U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | 1,2,3,4,5 | 0.0726 | mg/L | 1 | 0.00100 |
| Xylene | | 1,2,3,4,5 | 0.0355 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 5 | 0.0872 | mg/L | 1 | 0.100 | 87 | 74.6 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 0.0882 | mg/L | 1 | 0.100 | 88 | 72.9 - 120 |

Sample: 394957 - Dup-1-060515

Laboratory: Lubbock
Analysis: TX1005 Extended - NEW
QC Batch: 122222
Prep Batch: 103387

Analytical Method: TX1005
Date Analyzed: 2015-06-11
Sample Preparation: 2015-06-11

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

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| C6-C12 | U | 1,4 | <5.00 | mg/L | 1 | 5.00 |
| >C12-C35 | U | 1,4 | <5.00 | mg/L | 1 | 5.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Triacontane | | | 2.56 | mg/L | 1 | 2.50 | 102 | 70.2 - 133 |
| n-Octane | | | 2.30 | mg/L | 1 | 2.50 | 92 | 70.5 - 140 |
| n-Tricosane | | | 2.51 | mg/L | 1 | 2.50 | 100 | 75 - 128 |

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Method Blanks

Method Blank (1) QC Batch: 122199

QC Batch: 122199 Date Analyzed: 2015-06-10 Analyzed By: JS
Prep Batch: 103389 QC Preparation: 2015-06-10 Prepared By: JS

| Parameter | Flag | Cert | Result | MDL | Units | RL |
|--------------|------|-----------|-----------|-----|-------|-------|
| Benzene | | 1,2,3,4,5 | <0.000352 | | mg/L | 0.001 |
| Toluene | | 1,2,3,4,5 | <0.000371 | | mg/L | 0.001 |
| Ethylbenzene | | 1,2,3,4,5 | <0.000352 | | mg/L | 0.001 |
| Xylene | | 1,2,3,4,5 | <0.000379 | | mg/L | 0.001 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | 5 | 0.0879 | mg/L | 1 | 0.100 | 88 | 74.6 - 120 | |
| 4-Bromofluorobenzene (4-BFB) | 5 | 0.0827 | mg/L | 1 | 0.100 | 83 | 72.9 - 120 | |

Method Blank (1) QC Batch: 122222

QC Batch: 122222 Date Analyzed: 2015-06-11 Analyzed By: SM
Prep Batch: 103387 QC Preparation: 2015-06-11 Prepared By: SM

| Parameter | Flag | Cert | Result | MDL | Units | RL |
|-----------|------|------|--------|-----|-------|----|
| C6-C12 | | 1,4 | <0.654 | | mg/L | 5 |
| >C12-C35 | | 1,4 | <0.704 | | mg/L | 5 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Triacontane | | 2.75 | mg/L | 1 | 2.50 | 110 | 70.2 - 133 | |
| n-Octane | | 2.63 | mg/L | 1 | 2.50 | 105 | 70.5 - 140 | |
| n-Tricosane | | 2.78 | mg/L | 1 | 2.50 | 111 | 75 - 128 | |

Method Blank (1) QC Batch: 122241

QC Batch: 122241 Date Analyzed: 2015-06-11 Analyzed By: JS
Prep Batch: 103423 QC Preparation: 2015-06-11 Prepared By: JS

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| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|-----------|------------|-------|-------|
| Benzene | | 1,2,3,4,5 | <0.000352 | mg/L | 0.001 |
| Toluene | | 1,2,3,4,5 | <0.000371 | mg/L | 0.001 |
| Ethylbenzene | | 1,2,3,4,5 | <0.000352 | mg/L | 0.001 |
| Xylene | | 1,2,3,4,5 | <0.000379 | mg/L | 0.001 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | 5 | 0.0875 | mg/L | 1 | 0.100 | 88 | 74.6 - 120 | |
| 4-Bromofluorobenzene (4-BFB) | 5 | 0.0836 | mg/L | 1 | 0.100 | 84 | 72.9 - 120 | |

Method Blank (1) QC Batch: 122279

QC Batch: 122279 Date Analyzed: 2015-06-15 Analyzed By: SM
Prep Batch: 103441 QC Preparation: 2015-06-11 Prepared By: SM

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|------------|-------|----|
| C6-C12 | | 1,4 | <0.654 | mg/L | 5 |
| >C12-C35 | | 1,4 | <0.704 | mg/L | 5 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Triacontane | | 2.62 | mg/L | 1 | 2.50 | 105 | 70.2 - 133 | |
| n-Octane | | 2.50 | mg/L | 1 | 2.50 | 100 | 70.5 - 140 | |
| n-Tricosane | | 2.68 | mg/L | 1 | 2.50 | 107 | 75 - 128 | |

Method Blank (1) QC Batch: 122453

QC Batch: 122453 Date Analyzed: 2015-06-18 Analyzed By: JS
Prep Batch: 103593 QC Preparation: 2015-06-18 Prepared By: JS

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|-----------|------------|-------|-------|
| Benzene | | 1,2,3,4,5 | <0.000352 | mg/L | 0.001 |
| Toluene | | 1,2,3,4,5 | <0.000371 | mg/L | 0.001 |
| Ethylbenzene | | 1,2,3,4,5 | <0.000352 | mg/L | 0.001 |
| Xylene | | 1,2,3,4,5 | <0.000379 | mg/L | 0.001 |

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| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 5 | 0.0991 | mg/L | 1 | 0.100 | 99 | 74.6 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 0.0969 | mg/L | 1 | 0.100 | 97 | 72.9 - 120 |

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 122199 Date Analyzed: 2015-06-10 Analyzed By: JS
Prep Batch: 103389 QC Preparation: 2015-06-10 Prepared By: JS

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit |
|--------------|---|---|------------------|-------|------|--------------|---------------|-----------|------------|
| Benzene | | | 1,2,3,4,5 0.0872 | mg/L | 1 | 0.100 | <0.000352 | 87 | 76 - 120 |
| Toluene | | | 1,2,3,4,5 0.0877 | mg/L | 1 | 0.100 | <0.000371 | 88 | 77.4 - 120 |
| Ethylbenzene | | | 1,2,3,4,5 0.0872 | mg/L | 1 | 0.100 | <0.000352 | 87 | 76.6 - 120 |
| Xylene | | | 1,2,3,4,5 0.264 | mg/L | 1 | 0.300 | <0.000379 | 88 | 77.2 - 121 |

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. | Rec. RPD | RPD Limit |
|--------------|---|---|------------------|-------|------|--------------|---------------|-----------|------------|-----------|
| Benzene | | | 1,2,3,4,5 0.0866 | mg/L | 1 | 0.100 | <0.000352 | 87 | 76 - 120 | 1 20 |
| Toluene | | | 1,2,3,4,5 0.0898 | mg/L | 1 | 0.100 | <0.000371 | 90 | 77.4 - 120 | 2 20 |
| Ethylbenzene | | | 1,2,3,4,5 0.0891 | mg/L | 1 | 0.100 | <0.000352 | 89 | 76.6 - 120 | 2 20 |
| Xylene | | | 1,2,3,4,5 0.270 | mg/L | 1 | 0.300 | <0.000379 | 90 | 77.2 - 121 | 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) | 5 | 0.0879 | 0.0886 | mg/L | 1 | 0.100 | 88 | 89 | 74.6 - 120 |
| 4-Bromofluorobenzene (4-BFB) | 5 | 0.0850 | 0.0856 | mg/L | 1 | 0.100 | 85 | 86 | 75 - 120 |

Laboratory Control Spike (LCS-1)

QC Batch: 122222 Date Analyzed: 2015-06-11 Analyzed By: SM
Prep Batch: 103387 QC Preparation: 2015-06-11 Prepared By: SM

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit |
|----------|---|---|------------|-------|------|--------------|---------------|-----------|------------|
| C6-C12 | | | 1,4 45.1 | mg/L | 1 | 50.0 | <0.654 | 90 | 62.2 - 125 |
| >C12-C35 | | | 1,4 48.4 | mg/L | 1 | 50.0 | <0.704 | 97 | 62.8 - 125 |

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

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| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | RPD Limit | RPD Limit | |
|----------|---|-----|-------------|-------|------|--------------|---------------|-----------|------------|-----------|----|
| C6-C12 | | 1,4 | 44.9 | mg/L | 1 | 50.0 | <0.654 | 90 | 62.2 - 125 | 0 | 20 |
| >C12-C35 | | 1,4 | 47.9 | mg/L | 1 | 50.0 | <0.704 | 96 | 62.8 - 125 | 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 |
|---------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| n-Triacontane | 2.47 | 2.40 | mg/L | 1 | 2.50 | 99 | 96 | 70.2 - 133 |
| n-Octane | 2.63 | 2.65 | mg/L | 1 | 2.50 | 105 | 106 | 70.5 - 140 |
| n-Tricosane | 2.57 | 2.56 | mg/L | 1 | 2.50 | 103 | 102 | 75 - 128 |

Laboratory Control Spike (LCS-1)

QC Batch: 122241 Date Analyzed: 2015-06-11 Analyzed By: JS
Prep Batch: 103423 QC Preparation: 2015-06-11 Prepared By: JS

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit |
|--------------|---|-----------|------------|-------|------|--------------|---------------|-----------|------------|
| Benzene | | 1,2,3,4,5 | 0.0881 | mg/L | 1 | 0.100 | <0.000352 | 88 | 76 - 120 |
| Toluene | | 1,2,3,4,5 | 0.0900 | mg/L | 1 | 0.100 | <0.000371 | 90 | 77.4 - 120 |
| Ethylbenzene | | 1,2,3,4,5 | 0.0893 | mg/L | 1 | 0.100 | <0.000352 | 89 | 76.6 - 120 |
| Xylene | | 1,2,3,4,5 | 0.272 | mg/L | 1 | 0.300 | <0.000379 | 91 | 77.2 - 121 |

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 | | |
|--------------|---|-----------|-------------|-------|------|--------------|---------------|-----------|------------|---|----|
| Benzene | | 1,2,3,4,5 | 0.0866 | mg/L | 1 | 0.100 | <0.000352 | 87 | 76 - 120 | 2 | 20 |
| Toluene | | 1,2,3,4,5 | 0.0878 | mg/L | 1 | 0.100 | <0.000371 | 88 | 77.4 - 120 | 2 | 20 |
| Ethylbenzene | | 1,2,3,4,5 | 0.0868 | mg/L | 1 | 0.100 | <0.000352 | 87 | 76.6 - 120 | 3 | 20 |
| Xylene | | 1,2,3,4,5 | 0.263 | mg/L | 1 | 0.300 | <0.000379 | 88 | 77.2 - 121 | 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) | 5 | 0.0867 | 0.0883 | mg/L | 1 | 0.100 | 87 | 88 | 74.6 - 120 |
| 4-Bromofluorobenzene (4-BFB) | 5 | 0.0853 | 0.0854 | mg/L | 1 | 0.100 | 85 | 85 | 75 - 120 |

Laboratory Control Spike (LCS-1)

QC Batch: 122279 Date Analyzed: 2015-06-15 Analyzed By: SM
Prep Batch: 103441 QC Preparation: 2015-06-11 Prepared By: SM

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| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|----------------|------------|-------|------|--------------|---------------|------|------------|
| C6-C12 | | ^{1,4} | 45.0 | mg/L | 1 | 50.0 | <0.654 | 90 | 62.2 - 125 |
| >C12-C35 | | ^{1,4} | 48.0 | mg/L | 1 | 50.0 | <0.704 | 96 | 62.8 - 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. | RPD | Rec. Limit | |
|----------|---|----------------|-------------|-------|------|--------------|---------------|------|------------|------------|----|
| C6-C12 | | ^{1,4} | 45.2 | mg/L | 1 | 50.0 | <0.654 | 90 | 62.2 - 125 | 0 | 20 |
| >C12-C35 | | ^{1,4} | 48.8 | mg/L | 1 | 50.0 | <0.704 | 98 | 62.8 - 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 |
|---------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| n-Triacontane | 2.30 | 2.30 | mg/L | 1 | 2.50 | 92 | 92 | 70.2 - 133 |
| n-Octane | 2.57 | 2.58 | mg/L | 1 | 2.50 | 103 | 103 | 70.5 - 140 |
| n-Tricosane | 2.48 | 2.53 | mg/L | 1 | 2.50 | 99 | 101 | 75 - 128 |

Laboratory Control Spike (LCS-1)

QC Batch: 122453 Date Analyzed: 2015-06-18 Analyzed By: JS
Prep Batch: 103593 QC Preparation: 2015-06-18 Prepared By: JS

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|----------------------|------------|-------|------|--------------|---------------|------|------------|
| Benzene | | ^{1,2,3,4,5} | 0.102 | mg/L | 1 | 0.100 | <0.000352 | 102 | 76 - 120 |
| Toluene | | ^{1,2,3,4,5} | 0.104 | mg/L | 1 | 0.100 | <0.000371 | 104 | 77.4 - 120 |
| Ethylbenzene | | ^{1,2,3,4,5} | 0.104 | mg/L | 1 | 0.100 | <0.000352 | 104 | 76.6 - 120 |
| Xylene | | ^{1,2,3,4,5} | 0.315 | mg/L | 1 | 0.300 | <0.000379 | 105 | 77.2 - 121 |

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. | RPD | Rec. Limit | |
|--------------|---|----------------------|-------------|-------|------|--------------|---------------|------|------------|------------|----|
| Benzene | | ^{1,2,3,4,5} | 0.101 | mg/L | 1 | 0.100 | <0.000352 | 101 | 76 - 120 | 1 | 20 |
| Toluene | | ^{1,2,3,4,5} | 0.104 | mg/L | 1 | 0.100 | <0.000371 | 104 | 77.4 - 120 | 0 | 20 |
| Ethylbenzene | | ^{1,2,3,4,5} | 0.103 | mg/L | 1 | 0.100 | <0.000352 | 103 | 76.6 - 120 | 0 | 20 |
| Xylene | | ^{1,2,3,4,5} | 0.314 | mg/L | 1 | 0.300 | <0.000379 | 105 | 77.2 - 121 | 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) | ⁵ | 0.101 | mg/L | 1 | 0.100 | 101 | 101 | 74.6 - 120 |
| 4-Bromofluorobenzene (4-BFB) | ⁵ | 0.0993 | mg/L | 1 | 0.100 | 99 | 99 | 75 - 120 |

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Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 394922

QC Batch: 122199
Prep Batch: 103389

Date Analyzed: 2015-06-10
QC Preparation: 2015-06-10

Analyzed By: JS
Prepared By: JS

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit |
|--------------|---|---|-----------------|-------|------|--------------|---------------|-----------|------------|
| Benzene | | | 1,2,3,4,5 0.998 | mg/L | 1 | 0.100 | 0.865 | 133 | 12.8 - 158 |
| Toluene | | | 1,2,3,4,5 0.102 | mg/L | 1 | 0.100 | 0.0121 | 90 | 16.9 - 157 |
| Ethylbenzene | | | 1,2,3,4,5 0.191 | mg/L | 1 | 0.100 | 0.0926 | 98 | 10 - 158 |
| Xylene | | | 1,2,3,4,5 0.493 | mg/L | 1 | 0.300 | 0.216 | 92 | 10 - 159 |

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. RPD Limit |
|--------------|---|---|-----------------|-------|------|--------------|---------------|-----------|-----------------|
| Benzene | | | 1,2,3,4,5 0.963 | mg/L | 1 | 0.100 | 0.865 | 98 | 12.8 - 158 4 20 |
| Toluene | | | 1,2,3,4,5 0.102 | mg/L | 1 | 0.100 | 0.0121 | 90 | 16.9 - 157 0 20 |
| Ethylbenzene | | | 1,2,3,4,5 0.191 | mg/L | 1 | 0.100 | 0.0926 | 98 | 10 - 158 0 20 |
| Xylene | | | 1,2,3,4,5 0.488 | mg/L | 1 | 0.300 | 0.216 | 91 | 10 - 159 1 20 |

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

| Surrogate | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|---|-----------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT) | 5 | 0.0913 | 0.0895 | mg/L | 1 | 0.1 | 91 | 90 | 74.6 - 120 |
| 4-Bromofluorobenzene (4-BFB) | 5 | 0.0923 | 0.0914 | mg/L | 1 | 0.1 | 92 | 91 | 75 - 120 |

Matrix Spike (MS-1) Spiked Sample: 395274

QC Batch: 122222
Prep Batch: 103387

Date Analyzed: 2015-06-11
QC Preparation: 2015-06-11

Analyzed By: SM
Prepared By: SM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit |
|----------|---|---|-----------|-------|------|--------------|---------------|-----------|------------|
| C6-C12 | | | 1,4 41.8 | mg/L | 1 | 50.0 | <0.654 | 84 | 47 - 130 |
| >C12-C35 | | | 1,4 45.1 | mg/L | 1 | 50.0 | 0.717 | 89 | 53.9 - 129 |

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

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| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | RPD Limit | RPD Limit | |
|----------|---|-----|------------|-------|------|--------------|---------------|-----------|------------|-----------|----|
| C6-C12 | | 1,4 | 42.2 | mg/L | 1 | 50.0 | <0.654 | 84 | 47 - 130 | 1 | 20 |
| >C12-C35 | | 1,4 | 45.3 | mg/L | 1 | 50.0 | 0.717 | 89 | 53.9 - 129 | 0 | 20 |

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

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|---------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| n-Triacontane | 2.19 | 2.18 | mg/L | 1 | 2.5 | 88 | 87 | 70.2 - 133 |
| n-Octane | 2.44 | 2.45 | mg/L | 1 | 2.5 | 98 | 98 | 70.5 - 140 |
| n-Tricosane | 2.36 | 2.34 | mg/L | 1 | 2.5 | 94 | 94 | 75 - 128 |

Matrix Spike (MS-1) Spiked Sample: 395136

QC Batch: 122241 Date Analyzed: 2015-06-11 Analyzed By: JS
Prep Batch: 103423 QC Preparation: 2015-06-11 Prepared By: JS

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | RPD Limit | Rec. Limit |
|--------------|---|-----------|-----------|-------|------|--------------|---------------|-----------|------------|------------|
| Benzene | | 1,2,3,4,5 | 0.0862 | mg/L | 1 | 0.100 | <0.000352 | 86 | 12.8 - 158 | |
| Toluene | | 1,2,3,4,5 | 0.0873 | mg/L | 1 | 0.100 | <0.000371 | 87 | 16.9 - 157 | |
| Ethylbenzene | | 1,2,3,4,5 | 0.0855 | mg/L | 1 | 0.100 | <0.000352 | 86 | 10 - 158 | |
| Xylene | | 1,2,3,4,5 | 0.260 | mg/L | 1 | 0.300 | <0.000379 | 86 | 10 - 159 | |

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. | RPD Limit | RPD Limit | |
|--------------|---|-----------|------------|-------|------|--------------|---------------|-----------|------------|-----------|----|
| Benzene | | 1,2,3,4,5 | 0.0901 | mg/L | 1 | 0.100 | <0.000352 | 90 | 12.8 - 158 | 4 | 20 |
| Toluene | | 1,2,3,4,5 | 0.0908 | mg/L | 1 | 0.100 | <0.000371 | 91 | 16.9 - 157 | 4 | 20 |
| Ethylbenzene | | 1,2,3,4,5 | 0.0887 | mg/L | 1 | 0.100 | <0.000352 | 89 | 10 - 158 | 4 | 20 |
| Xylene | | 1,2,3,4,5 | 0.269 | mg/L | 1 | 0.300 | <0.000379 | 90 | 10 - 159 | 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) | 5 | 0.0884 | 0.0883 | mg/L | 1 | 0.1 | 88 | 88 | 74.6 - 120 |
| 4-Bromofluorobenzene (4-BFB) | 5 | 0.0865 | 0.0856 | mg/L | 1 | 0.1 | 86 | 86 | 75 - 120 |

Matrix Spike (MS-1) Spiked Sample: 394935

QC Batch: 122279 Date Analyzed: 2015-06-15 Analyzed By: SM
Prep Batch: 103441 QC Preparation: 2015-06-11 Prepared By: SM

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| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|----------------|-----------|-------|------|--------------|---------------|------|------------|
| C6-C12 | | ^{1,4} | 51.3 | mg/L | 1 | 50.0 | <0.654 | 103 | 47 - 130 |
| >C12-C35 | | ^{1,4} | 56.3 | mg/L | 1 | 50.0 | <0.704 | 113 | 53.9 - 129 |

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. | RPD | Limit | |
|----------|---|----------------|------------|-------|------|--------------|---------------|------|------------|-------|----|
| C6-C12 | | ^{1,4} | 44.6 | mg/L | 1 | 50.0 | <0.654 | 89 | 47 - 130 | 14 | 20 |
| >C12-C35 | | ^{1,4} | 49.1 | mg/L | 1 | 50.0 | <0.704 | 98 | 53.9 - 129 | 14 | 20 |

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

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. | Limit |
|---------------|-----------|------------|-------|------|--------------|---------|----------|------------|-------|
| n-Triacontane | 2.42 | 2.29 | mg/L | 1 | 2.5 | 97 | 92 | 70.2 - 133 | |
| n-Octane | 2.63 | 2.39 | mg/L | 1 | 2.5 | 105 | 96 | 70.5 - 140 | |
| n-Tricosane | 2.57 | 2.43 | mg/L | 1 | 2.5 | 103 | 97 | 75 - 128 | |

Matrix Spike (MS-1) Spiked Sample: 395802

QC Batch: 122453 Date Analyzed: 2015-06-18 Analyzed By: JS
Prep Batch: 103593 QC Preparation: 2015-06-18 Prepared By: JS

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|----------------------|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | | ^{1,2,3,4,5} | 0.101 | mg/L | 1 | 0.100 | <0.000352 | 101 | 12.8 - 158 |
| Toluene | | ^{1,2,3,4,5} | 0.103 | mg/L | 1 | 0.100 | <0.000371 | 103 | 16.9 - 157 |
| Ethylbenzene | | ^{1,2,3,4,5} | 0.102 | mg/L | 1 | 0.100 | <0.000352 | 102 | 10 - 158 |
| Xylene | | ^{1,2,3,4,5} | 0.309 | mg/L | 1 | 0.300 | <0.000379 | 103 | 10 - 159 |

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. | RPD | Limit | |
|--------------|---|----------------------|------------|-------|------|--------------|---------------|------|------------|-------|----|
| Benzene | | ^{1,2,3,4,5} | 0.100 | mg/L | 1 | 0.100 | <0.000352 | 100 | 12.8 - 158 | 1 | 20 |
| Toluene | | ^{1,2,3,4,5} | 0.102 | mg/L | 1 | 0.100 | <0.000371 | 102 | 16.9 - 157 | 0 | 20 |
| Ethylbenzene | | ^{1,2,3,4,5} | 0.102 | mg/L | 1 | 0.100 | <0.000352 | 102 | 10 - 158 | 0 | 20 |
| Xylene | | ^{1,2,3,4,5} | 0.309 | mg/L | 1 | 0.300 | <0.000379 | 103 | 10 - 159 | 0 | 20 |

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

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. | Limit |
|------------------------------|--------------|------------|--------|------|--------------|---------|----------|------|------------|
| Trifluorotoluene (TFT) | ⁵ | 0.0989 | 0.0987 | mg/L | 1 | 0.1 | 99 | 99 | 74.6 - 120 |
| 4-Bromofluorobenzene (4-BFB) | ⁵ | 0.0988 | 0.0994 | mg/L | 1 | 0.1 | 99 | 99 | 75 - 120 |

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Calibration Standards

Standard (CCV-2)

QC Batch: 122199 Date Analyzed: 2015-06-10 Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True | CCVs Found | CCVs Percent | Percent Recovery | Date Analyzed |
|--------------|-------|-----------|--------|--------------|---------------|-----------------|---------------------|------------------|
| Conc. | Conc. | Recovery | Limits | Analyzed | | | | |
| Benzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0861 | 86 | 80 - 120 | 2015-06-10 |
| Toluene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0884 | 88 | 80 - 120 | 2015-06-10 |
| Ethylbenzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0875 | 88 | 80 - 120 | 2015-06-10 |
| Xylene | | 1,2,3,4,5 | mg/L | 0.300 | 0.266 | 89 | 80 - 120 | 2015-06-10 |

Standard (CCV-3)

QC Batch: 122199 Date Analyzed: 2015-06-10 Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True | CCVs Found | CCVs Percent | Percent Recovery | Date Analyzed |
|--------------|-------|-----------|--------|--------------|---------------|-----------------|---------------------|------------------|
| Conc. | Conc. | Recovery | Limits | Analyzed | | | | |
| Benzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0889 | 89 | 80 - 120 | 2015-06-10 |
| Toluene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0908 | 91 | 80 - 120 | 2015-06-10 |
| Ethylbenzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0896 | 90 | 80 - 120 | 2015-06-10 |
| Xylene | | 1,2,3,4,5 | mg/L | 0.300 | 0.272 | 91 | 80 - 120 | 2015-06-10 |

Standard (CCV-1)

QC Batch: 122222 Date Analyzed: 2015-06-11 Analyzed By: SM

| Param | Flag | Cert | Units | CCVs True | CCVs Found | CCVs Percent | Percent Recovery | Date Analyzed |
|----------|-------|----------|--------|--------------|---------------|-----------------|---------------------|------------------|
| Conc. | Conc. | Recovery | Limits | Analyzed | | | | |
| C6-C12 | | 1,4 | mg/L | 500 | 462 | 92 | 75 - 125 | 2015-06-11 |
| >C12-C35 | | 1,4 | mg/L | 500 | 496 | 99 | 75 - 125 | 2015-06-11 |

Standard (CCV-2)

QC Batch: 122222 Date Analyzed: 2015-06-11 Analyzed By: SM

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| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| C6-C12 | | 1,4 | mg/L | 500 | 453 | 91 | 75 - 125 | 2015-06-11 |
| >C12-C35 | | 1,4 | mg/L | 500 | 490 | 98 | 75 - 125 | 2015-06-11 |

Standard (CCV-1)

QC Batch: 122241 Date Analyzed: 2015-06-11 Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0860 | 86 | 80 - 120 | 2015-06-11 |
| Toluene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0882 | 88 | 80 - 120 | 2015-06-11 |
| Ethylbenzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0870 | 87 | 80 - 120 | 2015-06-11 |
| Xylene | | 1,2,3,4,5 | mg/L | 0.300 | 0.264 | 88 | 80 - 120 | 2015-06-11 |

Standard (CCV-2)

QC Batch: 122241 Date Analyzed: 2015-06-11 Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0867 | 87 | 80 - 120 | 2015-06-11 |
| Toluene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0891 | 89 | 80 - 120 | 2015-06-11 |
| Ethylbenzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0881 | 88 | 80 - 120 | 2015-06-11 |
| Xylene | | 1,2,3,4,5 | mg/L | 0.300 | 0.267 | 89 | 80 - 120 | 2015-06-11 |

Standard (CCV-1)

QC Batch: 122279 Date Analyzed: 2015-06-15 Analyzed By: SM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| C6-C12 | | 1,4 | mg/L | 500 | 460 | 92 | 75 - 125 | 2015-06-15 |
| >C12-C35 | | 1,4 | mg/L | 500 | 495 | 99 | 75 - 125 | 2015-06-15 |

Report Date: June 22, 2015
074684 (2)

Work Order: 15060821
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Lea Co, NM

Standard (CCV-2)

QC Batch: 122279 Date Analyzed: 2015-06-15 Analyzed By: SM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| C6-C12 | | 1,4 | mg/L | 500 | 454 | 91 | 75 - 125 | 2015-06-15 |
| >C12-C35 | | 1,4 | mg/L | 500 | 496 | 99 | 75 - 125 | 2015-06-15 |

Standard (CCV-1)

QC Batch: 122453 Date Analyzed: 2015-06-18 Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.100 | 100 | 80 - 120 | 2015-06-18 |
| Toluene | | 1,2,3,4,5 | mg/L | 0.100 | 0.102 | 102 | 80 - 120 | 2015-06-18 |
| Ethylbenzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.102 | 102 | 80 - 120 | 2015-06-18 |
| Xylene | | 1,2,3,4,5 | mg/L | 0.300 | 0.310 | 103 | 80 - 120 | 2015-06-18 |

Standard (CCV-2)

QC Batch: 122453 Date Analyzed: 2015-06-18 Analyzed By: JS

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0988 | 99 | 80 - 120 | 2015-06-18 |
| Toluene | | 1,2,3,4,5 | mg/L | 0.100 | 0.103 | 103 | 80 - 120 | 2015-06-18 |
| Ethylbenzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.102 | 102 | 80 - 120 | 2015-06-18 |
| Xylene | | 1,2,3,4,5 | mg/L | 0.300 | 0.310 | 103 | 80 - 120 | 2015-06-18 |

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 | L-A-B | L2418 | Lubbock |
| 2 | Kansas | Kansas E-10317 | Lubbock |
| 3 | LELAP | LELAP-02003 | Lubbock |
| 4 | NELAP | T104704219-15-11 | Lubbock |
| 5 | | 2014-018 | Lubbock |

Standard Flags

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

Report Date: June 22, 2015
074684 (2)

Work Order: 15060821
Darr #4

Page Number: 26 of 26
Lea Co, NM

F Description

U The analyte is not detected above the SDL

Attachments

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

LAB Order ID # 150600821

TraceAnalysis, Inc.

email: lab@traceanalysis.com

Company Name: Conestoga - Leaps & Assoc.Address: 2135 South Loop 250 W, Minnetonka, MN 55343

(Street, City, Zip)

Contact Person: Chris Knight / John Tengerson

(If different from above)

Project #: 074684
Project Location (including state): Lac County, WI

Invoice to:

Project Name: Camille BryantProject Name: DarrSampler Signature: [Signature]Phone #: (432) 686-0086

Fax #:

(432) 686-0186

E-mail:

kingatj@conestoga-assoc.comjtegeson@conestoga-assoc.com

Total Metals Ag As Ba Cd Cr Pb Se Hg

TPH 8015 GRO / DRO / TVHC

MTEB 8021 / 602 / 8260 / 624

TPH 418.1 / TX1005 / EX1005 Ext(C35)

PAH 8270 / 625

GC/MS Vol. 8260 / 624

GC/MS Semi. Vol. 8270 / 625

PCBs 8082 / 608

Pesticides 8081 / 608

BOD, TSS, pH

Moisture Content

Cl, F, SO₄, NO₃-N, NO₂-N, PO₄-P, Alkalinity

Na, Ca, Mg, K, TDS, EC

BioAquatic Testing

3403 Industrial Blvd.

Brandon & Clark

2501 Mayes Rd., Ste 100

Carrollton, Texas 75006

Tel (972) 242-7750

Fax (915) 585-4944

1 (888) 588-3443

BioAquatic Testing

2501 Mayes Rd., Ste 100

El Paso, Texas 79922

Tel (915) 585-3443

Fax (432) 689-6301

1 (800) 378-1298

Hold

Turn Around Time if different from standard

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

| LAB # | FIELD CODE | # CONTAINERS | VOLUME / AMOUNT | MATRIX | PRESERVATIVE METHOD | SAMPLING | TIME | DATE | LAB USE ONLY | | | REMARKS: |
|--|---------------|--------------|---------------------|--------------------|------------------------------|---------------------|--------------------|-------------------|------------------|------------------|-------------------------|--|
| | | | | | | | | | AIR | SOLID | SLUDGE | |
| 394950 | MW-9-060515 | 6 | 10ml | X | X | X | 0/5 | 750 | X | | | |
| 394951 | MW-14-060515 | | | | | | | | | | | |
| 394952 | MW-15-060515 | | | | | | | | | | | |
| 394953 | MW-3R-060515 | | | | | | | | | | | |
| 394954 | MW-12R-060515 | | | | | | | | | | | |
| 394955 | MW-16-060515 | | | | | | | | | | | |
| 394956 | RW-5-060515 | | | | | | | | | | | |
| 394957 | RW-15-060515 | | | | | | | | | | | |
| | DUF-1-060515 | | | | | | | | | | | |
| Received by: <u>Kevin Wenzel CPA</u> | | | Date: <u>6/8/15</u> | Time: <u>9:20</u> | Company: <u>No New Trace</u> | Date: <u>6/8/15</u> | Time: <u>9:20</u> | INST <u>11:20</u> | OBS <u>11:20</u> | COR <u>11:20</u> | INSTRUMENT <u>11:20</u> | REMARKS: <u>PW-5 - 060515 is missing,</u> |
| Relinquished by: <u>Kevin Wenzel CPA</u> | | | Date: <u>6/8/15</u> | Time: <u>11:34</u> | Company: <u>No New Trace</u> | Date: <u>6/8/15</u> | Time: <u>11:34</u> | INST <u>11:30</u> | OBS <u>11:30</u> | COR <u>11:30</u> | INSTRUMENT <u>11:30</u> | REMARKS: <u>2 Vols</u> |
| Relinquished by: <u>No New Trace</u> | | | Date: <u>6/9/15</u> | Time: <u>9:20</u> | Company: <u>BC TT 6-9-15</u> | Date: <u>6/9/15</u> | Time: <u>9:20</u> | INST <u>11:20</u> | OBS <u>11:20</u> | COR <u>11:20</u> | INSTRUMENT <u>11:20</u> | REMARKS: <u>Log-in-Review done</u> |
| Relinquished by: <u>No New Trace</u> | | | Date: <u>6/9/15</u> | Time: <u>9:20</u> | Company: <u>BC TT 6-9-15</u> | Date: <u>6/9/15</u> | Time: <u>9:20</u> | INST <u>11:20</u> | OBS <u>11:20</u> | COR <u>11:20</u> | INSTRUMENT <u>11:20</u> | REMARKS: <u>Dry Weight Basis Required</u> |
| Relinquished by: <u>No New Trace</u> | | | Date: <u>6/9/15</u> | Time: <u>9:20</u> | Company: <u>BC TT 6-9-15</u> | Date: <u>6/9/15</u> | Time: <u>9:20</u> | INST <u>11:20</u> | OBS <u>11:20</u> | COR <u>11:20</u> | INSTRUMENT <u>11:20</u> | REMARKS: <u>Check If Special Reporting Limits Are Needed</u> |

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

ORIGINAL COPY

Carrier # Copy in / 25574733



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

John Fergerson
GHD Services Inc.
2135 South Loop 250 West
Midland, TX, 79703

Report Date: August 24, 2015

Work Order: 15081805



Project Location: Lovington, NM
Project Name: Darr Angel #4
Project Number: 074684
SRS #: 2001-10876

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 |
|--------|---------------|--------|------------|------------|---------------|
| 402386 | MW-3R-081315 | water | 2015-08-13 | 16:50 | 2015-08-17 |
| 402387 | MW-12R-081315 | water | 2015-08-13 | 17:15 | 2015-08-17 |
| 402388 | MW-14-081315 | water | 2015-08-13 | 17:35 | 2015-08-17 |
| 402389 | MW-15-081315 | water | 2015-08-13 | 17:55 | 2015-08-17 |
| 402390 | MW-16-081315 | water | 2015-08-13 | 18:15 | 2015-08-17 |
| 402391 | RW-14-081315 | water | 2015-08-13 | 18:30 | 2015-08-17 |
| 402392 | RW-15-081315 | water | 2015-08-13 | 18:45 | 2015-08-17 |
| 402393 | Dup-1-081315 | water | 2015-08-13 | 00:00 | 2015-08-17 |

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

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

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.



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

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Case Narrative

Samples for project Darr Angel #4 were received by TraceAnalysis, Inc. on 2015-08-17 and assigned to work order 15081805. Samples for work order 15081805 were received intact at a temperature of 2.5 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 | 105082 | 2015-08-21 at 16:32 | 124270 | 2015-08-21 at 16:32 |

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15081805 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: August 24, 2015
074684

Work Order: 15081805
Darr Angel #4

Page Number: 5 of 14
Lovington, NM

Analytical Report

Sample: 402386 - MW-3R-081315

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 124270

Prep Batch: 105082

Analytical Method: S 8021B

Date Analyzed: 2015-08-21

Sample Preparation: 2015-08-21

Prep Method: S 5030B

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|-----------|----------|-------|----------|---------|
| Benzene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | 5 | 0.0961 | mg/L | 1 | 0.100 | 96 | 76.9 - 120 | |
| 4-Bromofluorobenzene (4-BFB) | 5 | 0.0890 | mg/L | 1 | 0.100 | 89 | 73.8 - 120 | |

Sample: 402387 - MW-12R-081315

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 124270

Prep Batch: 105082

Analytical Method: S 8021B

Date Analyzed: 2015-08-21

Sample Preparation: 2015-08-21

Prep Method: S 5030B

Analyzed By: JS

Prepared By: JS

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|-----------|----------|-------|----------|---------|
| Benzene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | Qr | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | 5 | 0.0972 | mg/L | 1 | 0.100 | 97 | 76.9 - 120 | |
| 4-Bromofluorobenzene (4-BFB) | 5 | 0.0879 | mg/L | 1 | 0.100 | 88 | 73.8 - 120 | |

Report Date: August 24, 2015
074684

Work Order: 15081805
Darr Angel #4

Page Number: 6 of 14
Lovington, NM

Sample: 402388 - MW-14-081315

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2015-08-21 | Analyzed By: | JS |
| QC Batch: | 124270 | Sample Preparation: | 2015-08-21 | Prepared By: | JS |
| Prep Batch: | 105082 | | | | |

| Parameter | Flag | Cert | RL | | Dilution | RL | | |
|------------------------------|------|-----------|----------|-------|----------|------------------|----|------------|
| | | | Result | Units | | | | |
| Benzene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Toluene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Ethylbenzene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Xylene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | | |
| | | | | | | Percent Recovery | | |
| Trifluorotoluene (TFT) | | 5 | 0.0972 | mg/L | 1 | 0.100 | 97 | 76.9 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 0.0871 | mg/L | 1 | 0.100 | 87 | 73.8 - 120 |

Sample: 402389 - MW-15-081315

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2015-08-21 | Analyzed By: | JS |
| QC Batch: | 124270 | Sample Preparation: | 2015-08-21 | Prepared By: | JS |
| Prep Batch: | 105082 | | | | |

| Parameter | Flag | Cert | RL | | Dilution | RL | | |
|------------------------------|------|-----------|----------|-------|----------|------------------|----|------------|
| | | | Result | Units | | | | |
| Benzene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Toluene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Ethylbenzene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Xylene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | | |
| | | | | | | Percent Recovery | | |
| Trifluorotoluene (TFT) | | 5 | 0.0962 | mg/L | 1 | 0.100 | 96 | 76.9 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 0.0848 | mg/L | 1 | 0.100 | 85 | 73.8 - 120 |

Report Date: August 24, 2015
074684

Work Order: 15081805
Darr Angel #4

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Lovington, NM

Sample: 402390 - MW-16-081315

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 124270
Prep Batch: 105082

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

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

| Parameter | Flag | Cert | RL | | Dilution | RL | | |
|------------------------------|------|-----------|----------|-------|----------|---------|----|------------|
| | | | Result | Units | | | | |
| Benzene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Toluene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Ethylbenzene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Xylene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | | |
| | | | | | | Amount | | |
| Trifluorotoluene (TFT) | | 5 | 0.0956 | mg/L | 1 | 0.100 | 96 | 76.9 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 0.0861 | mg/L | 1 | 0.100 | 86 | 73.8 - 120 |

Sample: 402391 - RW-14-081315

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 124270
Prep Batch: 105082

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

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

| Parameter | Flag | Cert | RL | | Dilution | RL | | |
|------------------------------|------|-----------|----------------|-------|----------|---------|----|------------|
| | | | Result | Units | | | | |
| Benzene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Toluene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Ethylbenzene | Qr,U | 1,2,3,4,5 | <0.00100 | mg/L | 1 | 0.00100 | | |
| Xylene | Qr | 1,2,3,4,5 | 0.00100 | mg/L | 1 | 0.00100 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | | |
| | | | | | | Amount | | |
| Trifluorotoluene (TFT) | | 5 | 0.0931 | mg/L | 1 | 0.100 | 93 | 76.9 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 0.0835 | mg/L | 1 | 0.100 | 84 | 73.8 - 120 |

Report Date: August 24, 2015
074684

Work Order: 15081805
Darr Angel #4

Page Number: 8 of 14
Lovington, NM

Sample: 402392 - RW-15-081315

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 124270
Prep Batch: 105082

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

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

| Parameter | Flag | Cert | RL | | Dilution | RL | | |
|------------------------------|-------|-----------|---------------|-------|----------|---------|----|------------|
| | | | Result | Units | | | | |
| Benzene | Qr | 1,2,3,4,5 | 0.325 | mg/L | 1 | 0.00100 | | |
| Toluene | Qr | 1,2,3,4,5 | 0.0908 | mg/L | 1 | 0.00100 | | |
| Ethylbenzene | Qr | 1,2,3,4,5 | 0.163 | mg/L | 1 | 0.00100 | | |
| Xylene | Je,Qr | 1,2,3,4,5 | 0.763 | mg/L | 1 | 0.00100 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | | |
| | | | | | | Amount | | |
| Trifluorotoluene (TFT) | | 5 | 0.0958 | mg/L | 1 | 0.100 | 96 | 76.9 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 0.0987 | mg/L | 1 | 0.100 | 99 | 73.8 - 120 |

Sample: 402393 - Dup-1-081315

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 124270
Prep Batch: 105082

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

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

| Parameter | Flag | Cert | RL | | Dilution | RL | | |
|------------------------------|-------|-----------|---------------|-------|----------|---------|-----|------------|
| | | | Result | Units | | | | |
| Benzene | Qr | 1,2,3,4,5 | 0.315 | mg/L | 1 | 0.00100 | | |
| Toluene | Qr | 1,2,3,4,5 | 0.0887 | mg/L | 1 | 0.00100 | | |
| Ethylbenzene | Qr | 1,2,3,4,5 | 0.176 | mg/L | 1 | 0.00100 | | |
| Xylene | Je,Qr | 1,2,3,4,5 | 0.761 | mg/L | 1 | 0.00100 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | | |
| | | | | | | Amount | | |
| Trifluorotoluene (TFT) | | 5 | 0.0969 | mg/L | 1 | 0.100 | 97 | 76.9 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 0.101 | mg/L | 1 | 0.100 | 101 | 73.8 - 120 |

Report Date: August 24, 2015
074684

Work Order: 15081805
Darr Angel #4

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Lovington, NM

Method Blanks

Method Blank (1) QC Batch: 124270

QC Batch: 124270
Prep Batch: 105082

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

Analyzed By: JS
Prepared By: JS

| Parameter | Flag | Cert | Result | MDL | Units | RL |
|--------------|------|-----------|-----------|-----|-------|-------|
| Benzene | | 1,2,3,4,5 | <0.000352 | | mg/L | 0.001 |
| Toluene | | 1,2,3,4,5 | <0.000371 | | mg/L | 0.001 |
| Ethylbenzene | | 1,2,3,4,5 | <0.000352 | | mg/L | 0.001 |
| Xylene | | 1,2,3,4,5 | <0.000379 | | mg/L | 0.001 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 5 | 0.0969 | mg/L | 1 | 0.100 | 97 | 76.9 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 0.0877 | mg/L | 1 | 0.100 | 88 | 73.8 - 120 |

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074684

Work Order: 15081805
Darr Angel #4

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 124270 Date Analyzed: 2015-08-21 Analyzed By: JS
Prep Batch: 105082 QC Preparation: 2015-08-21 Prepared By: JS

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1,2,3,4,5 | 0.0934 | mg/L | 1 | 0.100 | <0.000352 | 93 | 80 - 120 |
| Toluene | | 1,2,3,4,5 | 0.0975 | mg/L | 1 | 0.100 | <0.000371 | 98 | 80 - 120 |
| Ethylbenzene | | 1,2,3,4,5 | 0.0976 | mg/L | 1 | 0.100 | <0.000352 | 98 | 80 - 120 |
| Xylene | | 1,2,3,4,5 | 0.289 | mg/L | 1 | 0.300 | <0.000379 | 96 | 80 - 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 | | 1,2,3,4,5 | 0.0910 | mg/L | 1 | 0.100 | <0.000352 | 91 | 80 - 120 | 3 | 20 |
| Toluene | | 1,2,3,4,5 | 0.0952 | mg/L | 1 | 0.100 | <0.000371 | 95 | 80 - 120 | 2 | 20 |
| Ethylbenzene | | 1,2,3,4,5 | 0.0951 | mg/L | 1 | 0.100 | <0.000352 | 95 | 80 - 120 | 3 | 20 |
| Xylene | | 1,2,3,4,5 | 0.281 | mg/L | 1 | 0.300 | <0.000379 | 94 | 80 - 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) | 5 | 0.0978 | 0.0976 | mg/L | 1 | 0.100 | 98 | 98 | 76.9 - 120 |
| 4-Bromofluorobenzene (4-BFB) | 5 | 0.0929 | 0.0921 | mg/L | 1 | 0.100 | 93 | 92 | 73.8 - 120 |

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074684

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Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 402378

QC Batch: 124270
Prep Batch: 105082

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

Analyzed By: JS
Prepared By: JS

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | |
|--------------|---|---|-----------|--------|------|--------------|---------------|-----------|------------|----------|
| Benzene | | | 1,2,3,4,5 | 0.0631 | mg/L | 1 | 0.100 | <0.000352 | 63 | 10 - 162 |
| Toluene | | | 1,2,3,4,5 | 0.0653 | mg/L | 1 | 0.100 | <0.000371 | 65 | 10 - 161 |
| Ethylbenzene | | | 1,2,3,4,5 | 0.0639 | mg/L | 1 | 0.100 | <0.000352 | 64 | 10 - 160 |
| Xylene | | | 1,2,3,4,5 | 0.186 | mg/L | 1 | 0.300 | <0.000379 | 62 | 10 - 165 |

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 | Q _r | Q _r | 1,2,3,4,5 | 0.0773 | mg/L | 1 | 0.100 | <0.000352 | 77 | 10 - 162 | 20 | 20 |
| Toluene | Q _r | Q _r | 1,2,3,4,5 | 0.0800 | mg/L | 1 | 0.100 | <0.000371 | 80 | 10 - 161 | 20 | 20 |
| Ethylbenzene | Q _r | Q _r | 1,2,3,4,5 | 0.0786 | mg/L | 1 | 0.100 | <0.000352 | 79 | 10 - 160 | 21 | 20 |
| Xylene | Q _r | Q _r | 1,2,3,4,5 | 0.229 | mg/L | 1 | 0.300 | <0.000379 | 76 | 10 - 165 | 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) | 5 | 0.0959 | 0.0961 | mg/L | 1 | 0.1 | 96 | 96 | 76.9 - 120 |
| 4-Bromofluorobenzene (4-BFB) | 5 | 0.0887 | 0.0897 | mg/L | 1 | 0.1 | 89 | 90 | 73.8 - 120 |

Report Date: August 24, 2015
074684

Work Order: 15081805
Darr Angel #4

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Calibration Standards

Standard (CCV-1)

| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date Analyzed |
|--------------|------|-----------|-------|-------|--------|---------|----------|---------------|
| | | | | True | Found | Percent | Recovery | |
| Benzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0910 | 91 | 80 - 120 | 2015-08-21 |
| Toluene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0954 | 95 | 80 - 120 | 2015-08-21 |
| Ethylbenzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0950 | 95 | 80 - 120 | 2015-08-21 |
| Xylene | | 1,2,3,4,5 | mg/L | 0.300 | 0.281 | 94 | 80 - 120 | 2015-08-21 |

Standard (CCV-2)

| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date Analyzed |
|--------------|------|-----------|-------|-------|--------|---------|----------|---------------|
| | | | | True | Found | Percent | Recovery | |
| Benzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0934 | 93 | 80 - 120 | 2015-08-21 |
| Toluene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0981 | 98 | 80 - 120 | 2015-08-21 |
| Ethylbenzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0966 | 97 | 80 - 120 | 2015-08-21 |
| Xylene | | 1,2,3,4,5 | mg/L | 0.300 | 0.284 | 95 | 80 - 120 | 2015-08-21 |

Standard (CCV-3)

| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date Analyzed |
|--------------|------|-----------|-------|-------|--------|---------|----------|---------------|
| | | | | True | Found | Percent | Recovery | |
| Benzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0929 | 93 | 80 - 120 | 2015-08-21 |
| Toluene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0966 | 97 | 80 - 120 | 2015-08-21 |
| Ethylbenzene | | 1,2,3,4,5 | mg/L | 0.100 | 0.0959 | 96 | 80 - 120 | 2015-08-21 |
| Xylene | | 1,2,3,4,5 | mg/L | 0.300 | 0.284 | 95 | 80 - 120 | 2015-08-21 |

Appendix

Report Definitions

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

Laboratory Certifications

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

Standard Flags

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

Report Date: August 24, 2015
074684

Work Order: 15081805
Darr Angel #4

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Lovington, NM

F Description

U The analyte is not detected above the SDL

Attachments

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

TraceAnalysis, Inc.

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(1800) 378-1296
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Company Name: **6HD Services Inc** Phone #: **132-686-0086**
Address: **2135 S. Loop 250 W. 79703** Fax #: **132-686-0196**

Contact Person: **John Ferguson** E-mail: **JFerguson@6HD.com**
Invoice to: **Cumille Bryant** Project Name: **CJ Bryant@6HD.com**

Project #: **074684**
Project Location (including state): **Tulsa/Harbor**
Sampler Signature:

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

| | |
|---|---|
| Moisture Content | Y |
| Na, Ca, Mg, K, TDS, EC | Y |
| Cl, F, SO ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity | Y |
| BOD, TSS, pH | Y |
| Pesticides 8081 / 608 | Y |
| PCBs 8082 / 608 | Y |
| GC/MS Vol. 8260 / 624 | Y |
| GC/MS Semi. Vol. 8270 / 625 | Y |
| RCI | Y |
| TCLP Pesticides | Y |
| TCLP Semi-Volatiles | Y |
| TCLP Volatiles | Y |
| Total Metals Ag As Ba Cd Cr Pb Se Hg | Y |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg 6010/2007 | Y |
| PAH 8270 / 625 | Y |
| TPH 418.1 / TX1005 / TX1005 Ext(C35) | Y |
| TPH 8015 GRO / DRO / TVHC | Y |
| MTEB 8021 / 602 / 8260 / 624 | Y |
| BTEx 6021 / 602 / 8260 / 624 | Y |
| PAH 8270 / 625 | Y |
| TPH 418.1 / TX1005 / TX1005 Ext(C35) | Y |
| TPH 8015 GRO / DRO / TVHC | Y |
| MTEB 8021 / 602 / 8260 / 624 | Y |

| LAB # | FIELD CODE | # CONTAINERS | MATRIX | PRESERVATIVE METHOD | SAMPLED | TIME | LAB USE ONLY | | | REMARKS: |
|--------|-----------------|--------------|--------|---------------------|---------|-----------|--------------|------|-----|----------|
| | | | | | | | WATER | SOIL | AIR | |
| 402386 | MW-3R - 08/15 | 3 | X | X | X | 8/13 (65) | | | | |
| 402387 | MW-12R - 08/15 | 1 | | | | 175 | | | | |
| 402388 | MW-14 - 08/15 | 3 | | | | 175 | | | | |
| 402389 | MW-15 - 08/15 | 1 | | | | 185 | | | | |
| 402390 | MW-16 - 08/15 | 1 | | | | 185 | | | | |
| 402391 | RW-14 - 08/15 | 1 | | | | 183 | | | | |
| 402392 | RW-15 - 08/15 | 1 | | | | 185 | | | | |
| 402393 | DWP - 1 - 08/15 | 1 | | | | - | | | | |

| | | | | | | | | | | | |
|-----------------------------------|---------------------|----------------------|--------------------|-------------------------------|---------------------|----------------------|--------------------|------------------|-----------------|-----------------|------------------------|
| Relinquished by: Valley TA | Company: 6HD | Date: 8/17/15 | Time: 16:10 | Received by: Valley TA | Company: 6HD | Date: 8/17/15 | Time: 16:10 | INST 55°C | OBS 35°C | Cor 35°C | Initial Y/N Y |
| Relinquished by: Valley TA | Company: 6HD | Date: 8/18/15 | Time: 12:09 | Received by: Valley TA | Company: 6HD | Date: 8/18/15 | Time: 12:09 | INST 55°C | OBS 35°C | Cor 35°C | Headspace Y |
| Relinquished by: Valley TA | Company: 6HD | Date: 8/18/15 | Time: 12:09 | Received by: Valley TA | Company: 6HD | Date: 8/18/15 | Time: 12:09 | INST 55°C | OBS 35°C | Cor 35°C | Log-in-Review N |

ORIGINAL COPY

Turn Around Time if different from standard
Brandon & Clark
3403 Industrial Blvd.
Carrollton, Texas 75006
Tel (972) 242-7750
Fax (575) 392-4508

bioAQUATIC Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (915) 585-3443
Fax (432) 689-6313
1 (888) 588-3443

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

Carrier # **05822651**

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



TRACEANALYSIS, INC.

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(BioAquatic) 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

John Fergerson
GHD Services Inc.
2135 South Loop 250 West
Midland, TX, 79703

Report Date: December 23, 2015

Work Order: 15120425



Project Location: Lovington, NM
Project Name: Darr Angel #4
Project Number: 074684
SRS #: 2001-10876

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 |
|--------|---------------|--------|------------|------------|---------------|
| 409496 | MW-16-120315 | water | 2015-12-03 | 11:10 | 2015-12-04 |
| 409497 | MW-14-120315 | water | 2015-12-03 | 11:25 | 2015-12-04 |
| 409498 | MW-15-120315 | water | 2015-12-03 | 11:40 | 2015-12-04 |
| 409499 | MW-3R-120315 | water | 2015-12-03 | 12:00 | 2015-12-04 |
| 409500 | RW-15-120315 | water | 2015-12-03 | 12:20 | 2015-12-04 |
| 409501 | RW-14-120315 | water | 2015-12-03 | 12:40 | 2015-12-04 |
| 409502 | MW-12R-120315 | water | 2015-12-03 | 13:00 | 2015-12-04 |
| 409503 | Dup-1-120315 | water | 2015-12-03 | 00:00 | 2015-12-04 |

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

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

This report consists of a total of 24 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.



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

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Case Narrative

Samples for project Darr Angel #4 were received by TraceAnalysis, Inc. on 2015-12-04 and assigned to work order 15120425. Samples for work order 15120425 were received intact at a temperature of 2.9 C.

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

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|------|---------|------------|---------------------|----------|---------------------|
| BTEX | S 8021B | 107320 | 2015-12-07 at 14:50 | 126822 | 2015-12-08 at 09:56 |
| BTEX | S 8021B | 107342 | 2015-12-08 at 14:26 | 126869 | 2015-12-09 at 07:14 |
| PAH | S 8270D | 107639 | 2015-12-10 at 15:00 | 127169 | 2015-12-23 at 10:08 |

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 15120425 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 23, 2015
074684

Work Order: 15120425
Darr Angel #4

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Analytical Report

Sample: 409496 - MW-16-120315

Laboratory: Midland

Analysis: BTEX

QC Batch: 126822

Prep Batch: 107320

Analytical Method: S 8021B

Date Analyzed: 2015-12-08

Sample Preparation: 2015-12-07

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0906 | mg/L | 1 | 0.100 | 91 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0865 | mg/L | 1 | 0.100 | 86 | 70 - 130 |

Sample: 409497 - MW-14-120315

Laboratory: Midland

Analysis: BTEX

QC Batch: 126822

Prep Batch: 107320

Analytical Method: S 8021B

Date Analyzed: 2015-12-08

Sample Preparation: 2015-12-07

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0847 | mg/L | 1 | 0.100 | 85 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0833 | mg/L | 1 | 0.100 | 83 | 70 - 130 |

Report Date: December 23, 2015
074684

Work Order: 15120425
Darr Angel #4

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Lovington, NM

Sample: 409498 - MW-15-120315

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Midland | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2015-12-08 | Analyzed By: | AK |
| QC Batch: | 126822 | Sample Preparation: | 2015-12-07 | Prepared By: | AK |
| Prep Batch: | 107320 | | | | |

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.0982 | mg/L | 1 | 0.100 | 98 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0930 | mg/L | 1 | 0.100 | 93 | 70 - 130 |

Sample: 409499 - MW-3R-120315

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Midland | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| Analysis: | BTEX | Date Analyzed: | 2015-12-08 | Analyzed By: | AK |
| QC Batch: | 126822 | Sample Preparation: | 2015-12-07 | Prepared By: | AK |
| Prep Batch: | 107320 | | | | |

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|------|------|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 0.0846 | mg/L | 1 | 0.100 | 85 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0864 | mg/L | 1 | 0.100 | 86 | 70 - 130 |

Sample: 409499 - MW-3R-120315

| | | | | | |
|-------------|---------|---------------------|------------|--------------|---------|
| Laboratory: | Lubbock | Analytical Method: | S 8270D | Prep Method: | S 3510C |
| Analysis: | PAH | Date Analyzed: | 2015-12-23 | Analyzed By: | MN |
| QC Batch: | 127169 | Sample Preparation: | 2015-12-10 | Prepared By: | MN |
| Prep Batch: | 107639 | | | | |

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| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|------------------------|------|-----------|-----------|-------|----------|----------|
| Naphthalene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| 2-Methylnaphthalene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| 1-Methylnaphthalene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Acenaphthylene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Acenaphthene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Dibenzofuran | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Fluorene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Anthracene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Phenanthrene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Fluoranthene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Pyrene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Benzo(a)anthracene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Chrysene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Benzo(b)fluoranthene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Benzo(k)fluoranthene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Benzo(a)pyrene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Indeno(1,2,3-cd)pyrene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Dibenzo(a,h)anthracene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Benzo(g,h,i)perylene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5 | | | 0.0259 | mg/L | 0.995 | 0.0800 | 32 | 10 - 120 |
| 2-Fluorobiphenyl | Qsr | Qsr | 0.0283 | mg/L | 0.995 | 0.0800 | 35 | 35.9 - 120 |
| Terphenyl-d14 | | | 0.0527 | mg/L | 0.995 | 0.0800 | 66 | 23.2 - 120 |

Sample: 409500 - RW-15-120315

Laboratory: Midland

Analysis: BTEX

QC Batch: 126869

Prep Batch: 107342

Analytical Method: S 8021B

Date Analyzed: 2015-12-09

Sample Preparation: 2015-12-08

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|---------------|-------|----------|---------|
| Benzene | Qr | 5 | 0.413 | mg/L | 50 | 0.00100 |
| Toluene | Qr | 5 | 0.0962 | mg/L | 50 | 0.00100 |
| Ethylbenzene | Qr | 5 | 0.220 | mg/L | 50 | 0.00100 |
| Xylene | Qr | 5 | 0.455 | mg/L | 50 | 0.00100 |

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| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 4.75 | mg/L | 50 | 5.00 | 95 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 4.31 | mg/L | 50 | 5.00 | 86 | 70 - 130 |

Sample: 409500 - RW-15-120315

Laboratory: Lubbock

Analysis: PAH

Analytical Method: S 8270D

Prep Method: S 3510C

QC Batch: 127169

Date Analyzed: 2015-12-23

Analyzed By: MN

Prep Batch: 107639

Sample Preparation: 2015-12-10

Prepared By: MN

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|------------------------|------|-----------|-----------------|-------|----------|----------|
| Naphthalene | | 1,2,3,4,6 | 0.00952 | mg/L | 1 | 0.000200 |
| 2-Methylnaphthalene | | 1,2,3,4,6 | 0.00569 | mg/L | 1 | 0.000200 |
| 1-Methylnaphthalene | | 1 | 0.0111 | mg/L | 1 | 0.000200 |
| Acenaphthylene | U | 1,2,3,4,6 | <0.000200 | mg/L | 1 | 0.000200 |
| Acenaphthene | U | 1,2,3,4,6 | <0.000200 | mg/L | 1 | 0.000200 |
| Dibenzofuran | | 1,2,3,4,6 | 0.000980 | mg/L | 1 | 0.000200 |
| Fluorene | | 1,2,3,4,6 | 0.00103 | mg/L | 1 | 0.000200 |
| Anthracene | U | 1,2,3,4,6 | <0.000200 | mg/L | 1 | 0.000200 |
| Phenanthrene | | 1,2,3,4,6 | 0.000442 | mg/L | 1 | 0.000200 |
| Fluoranthene | U | 1,2,3,4,6 | <0.000200 | mg/L | 1 | 0.000200 |
| Pyrene | U | 1,2,3,4,6 | <0.000200 | mg/L | 1 | 0.000200 |
| Benzo(a)anthracene | U | 1,2,3,4,6 | <0.000200 | mg/L | 1 | 0.000200 |
| Chrysene | U | 1,2,3,4,6 | <0.000200 | mg/L | 1 | 0.000200 |
| Benzo(b)fluoranthene | U | 1,2,3,4,6 | <0.000200 | mg/L | 1 | 0.000200 |
| Benzo(k)fluoranthene | U | 1,2,3,4,6 | <0.000200 | mg/L | 1 | 0.000200 |
| Benzo(a)pyrene | U | 1,2,3,4,6 | <0.000200 | mg/L | 1 | 0.000200 |
| Indeno(1,2,3-cd)pyrene | U | 1,2,3,4,6 | <0.000200 | mg/L | 1 | 0.000200 |
| Dibenzo(a,h)anthracene | U | 1,2,3,4,6 | <0.000200 | mg/L | 1 | 0.000200 |
| Benzo(g,h,i)perylene | U | 1,2,3,4,6 | <0.000200 | mg/L | 1 | 0.000200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5 | | | 0.0441 | mg/L | 1 | 0.0800 | 55 | 10 - 120 |
| 2-Fluorobiphenyl | | | 0.0531 | mg/L | 1 | 0.0800 | 66 | 35.9 - 120 |
| Terphenyl-d14 | | | 0.0733 | mg/L | 1 | 0.0800 | 92 | 23.2 - 120 |

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Sample: 409501 - RW-14-120315

Laboratory: Midland

Analysis: BTEX

QC Batch: 126869

Prep Batch: 107342

Analytical Method: S 8021B

Date Analyzed: 2015-12-09

Sample Preparation: 2015-12-08

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

| Parameter | Flag | Cert | RL | | Dilution | RL |
|------------------------------|------|------|----------------|-------|--------------|------------------|
| | | | Result | Units | | |
| Benzene | Qr | 5 | 0.0217 | mg/L | 1 | 0.00100 |
| Toluene | Qr,U | 5 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | Qr,U | 5 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | Qr | 5 | 0.00240 | mg/L | 1 | 0.00100 |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery |
| | | | | | | |
| Trifluorotoluene (TFT) | | | 0.0954 | mg/L | 1 | 95 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0904 | mg/L | 1 | 90 |

Sample: 409501 - RW-14-120315

Laboratory: Lubbock

Analysis: PAH

QC Batch: 127169

Prep Batch: 107639

Analytical Method: S 8270D

Date Analyzed: 2015-12-23

Sample Preparation: 2015-12-10

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

| Parameter | Flag | Cert | RL | | Dilution | RL |
|------------------------|------|-----------|-----------|-------|----------|----------|
| | | | Result | Units | | |
| Naphthalene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| 2-Methylnaphthalene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| 1-Methylnaphthalene | U | 1 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Acenaphthylene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Acenaphthene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Dibenzofuran | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Fluorene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Anthracene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Phenanthrene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Fluoranthene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Pyrene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Benzo(a)anthracene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Chrysene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Benzo(b)fluoranthene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Benzo(k)fluoranthene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Benzo(a)pyrene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Indeno(1,2,3-cd)pyrene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Dibenzo(a,h)anthracene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |

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sample 409501 continued ...

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|----------------------|------|-----------|-----------|-------|--------------|------------------|
| Benzo(g,h,i)perylene | U | 1,2,3,4,6 | <0.000198 | mg/L | 0.99 | 0.000200 |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery |
| Nitrobenzene-d5 | | | 0.0241 | mg/L | 0.0800 | 30 |
| 2-Fluorobiphenyl | Qsr | Qsr | 0.0266 | mg/L | 0.0800 | 33 |
| Terphenyl-d14 | | | 0.0445 | mg/L | 0.0800 | 56 |

Sample: 409502 - MW-12R-120315

Laboratory: Midland
Analysis: BTEX
QC Batch: 126822
Prep Batch: 107320

Analytical Method: S 8021B
Date Analyzed: 2015-12-08
Sample Preparation: 2015-12-07

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

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|------------------------------|------|------|----------------|-------|--------------|------------------|
| Benzene | U | 5 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | U | 5 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | 5 | 0.00150 | mg/L | 1 | 0.00100 |
| Xylene | | 5 | 0.00320 | mg/L | 1 | 0.00100 |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery |
| Trifluorotoluene (TFT) | | | 0.0892 | mg/L | 1 | 89 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0915 | mg/L | 1 | 92 |

Sample: 409502 - MW-12R-120315

Laboratory: Lubbock
Analysis: PAH
QC Batch: 127169
Prep Batch: 107639

Analytical Method: S 8270D
Date Analyzed: 2015-12-23
Sample Preparation: 2015-12-10

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

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|---------------------|------|-----------|-----------|-------|----------|----------|
| Naphthalene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| 2-Methylnaphthalene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| 1-Methylnaphthalene | U | 1 | <0.000199 | mg/L | 0.995 | 0.000200 |

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sample 409502 continued ...

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|------------------------|------|-----------|-----------|-------|----------|----------|
| Acenaphthylene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Acenaphthene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Dibenzofuran | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Fluorene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Anthracene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Phenanthrene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Fluoranthene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Pyrene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Benzo(a)anthracene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Chrysene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Benzo(b)fluoranthene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Benzo(k)fluoranthene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Benzo(a)pyrene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Indeno(1,2,3-cd)pyrene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Dibenzo(a,h)anthracene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |
| Benzo(g,h,i)perylene | U | 1,2,3,4,6 | <0.000199 | mg/L | 0.995 | 0.000200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5 | | | 0.0387 | mg/L | 0.995 | 0.0800 | 48 | 10 - 120 |
| 2-Fluorobiphenyl | | | 0.0413 | mg/L | 0.995 | 0.0800 | 52 | 35.9 - 120 |
| Terphenyl-d14 | | | 0.0599 | mg/L | 0.995 | 0.0800 | 75 | 23.2 - 120 |

Sample: 409503 - Dup-1-120315

Laboratory: Midland

Analysis: BTEX

QC Batch: 126869

Prep Batch: 107342

Analytical Method: S 8021B

Date Analyzed: 2015-12-09

Sample Preparation: 2015-12-08

Prep Method: S 5030B

Analyzed By: AK

Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene | Qr | 5 | 0.422 | mg/L | 50 | 0.00100 |
| Toluene | Qr | 5 | 0.105 | mg/L | 50 | 0.00100 |
| Ethylbenzene | Qr | 5 | 0.178 | mg/L | 50 | 0.00100 |
| Xylene | Qr | 5 | 0.423 | mg/L | 50 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 4.77 | mg/L | 50 | 5.00 | 95 | 70 - 130 |

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sample continued . . .

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| 4-Bromofluorobenzene (4-BFB) | | | 4.43 | mg/L | 50 | 5.00 | 89 | 70 - 130 |

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Method Blanks

Method Blank (1) QC Batch: 126822

QC Batch: 126822 Date Analyzed: 2015-12-08 Analyzed By: AK
Prep Batch: 107320 QC Preparation: 2015-12-07 Prepared By: AK

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.102 | mg/L | 1 | 0.100 | 102 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0912 | mg/L | 1 | 0.100 | 91 | 70 - 130 |

Method Blank (1) QC Batch: 126869

QC Batch: 126869 Date Analyzed: 2015-12-09 Analyzed By: AK
Prep Batch: 107342 QC Preparation: 2015-12-08 Prepared By: AK

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

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 0.0931 | mg/L | 1 | 0.100 | 93 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0875 | mg/L | 1 | 0.100 | 88 | 70 - 130 |

Method Blank (1) QC Batch: 127169

QC Batch: 127169 Date Analyzed: 2015-12-23 Analyzed By: MN
Prep Batch: 107639 QC Preparation: 2015-12-10 Prepared By: MN

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| Parameter | Flag | Cert | MDL | | RL |
|------------------------|------|-----------|------------|-------|--------|
| | | | Result | Units | |
| Naphthalene | | 1,2,3,4,6 | <0.0000656 | mg/L | 0.0002 |
| 2-Methylnaphthalene | | 1,2,3,4,6 | <0.0000516 | mg/L | 0.0002 |
| 1-Methylnaphthalene | | 1 | <0.0000663 | mg/L | 0.0002 |
| Acenaphthylene | | 1,2,3,4,6 | <0.0000581 | mg/L | 0.0002 |
| Acenaphthene | | 1,2,3,4,6 | <0.0000332 | mg/L | 0.0002 |
| Dibenzofuran | | 1,2,3,4,6 | <0.0000607 | mg/L | 0.0002 |
| Fluorene | | 1,2,3,4,6 | <0.0000788 | mg/L | 0.0002 |
| Anthracene | | 1,2,3,4,6 | <0.0000321 | mg/L | 0.0002 |
| Phenanthrene | | 1,2,3,4,6 | <0.0000516 | mg/L | 0.0002 |
| Fluoranthene | | 1,2,3,4,6 | <0.0000638 | mg/L | 0.0002 |
| Pyrene | | 1,2,3,4,6 | <0.0000415 | mg/L | 0.0002 |
| Benzo(a)anthracene | | 1,2,3,4,6 | <0.0000721 | mg/L | 0.0002 |
| Chrysene | | 1,2,3,4,6 | <0.0000811 | mg/L | 0.0002 |
| Benzo(b)fluoranthene | | 1,2,3,4,6 | <0.0000710 | mg/L | 0.0002 |
| Benzo(k)fluoranthene | | 1,2,3,4,6 | <0.0000561 | mg/L | 0.0002 |
| Benzo(a)pyrene | | 1,2,3,4,6 | <0.0000418 | mg/L | 0.0002 |
| Indeno(1,2,3-cd)pyrene | | 1,2,3,4,6 | <0.0000537 | mg/L | 0.0002 |
| Dibenzo(a,h)anthracene | | 1,2,3,4,6 | <0.0000562 | mg/L | 0.0002 |
| Benzo(g,h,i)perylene | | 1,2,3,4,6 | <0.0000519 | mg/L | 0.0002 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5 | | | 0.0309 | mg/L | 1 | 0.0800 | 39 | 10 - 120 |
| 2-Fluorobiphenyl | | | 0.0362 | mg/L | 1 | 0.0800 | 45 | 35.9 - 120 |
| Terphenyl-d14 | | | 0.0423 | mg/L | 1 | 0.0800 | 53 | 23.2 - 120 |

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 126822
Prep Batch: 107320

Date Analyzed: 2015-12-08
QC Preparation: 2015-12-07

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Benzene | | 5 | 0.0975 | mg/L | 1 | 0.100 | <0.000299 | 98 | 70 - 130 |
| Toluene | | 5 | 0.0958 | mg/L | 1 | 0.100 | <0.000247 | 96 | 70 - 130 |
| Ethylbenzene | | 5 | 0.0941 | mg/L | 1 | 0.100 | <0.000423 | 94 | 70 - 130 |
| Xylene | | 5 | 0.266 | mg/L | 1 | 0.300 | <0.000552 | 89 | 70 - 130 |

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

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | | 5 | 0.103 | mg/L | 1 | 0.100 | <0.000299 | 103 | 70 - 130 | 6 | 20 |
| Toluene | | 5 | 0.101 | mg/L | 1 | 0.100 | <0.000247 | 101 | 70 - 130 | 5 | 20 |
| Ethylbenzene | | 5 | 0.0983 | mg/L | 1 | 0.100 | <0.000423 | 98 | 70 - 130 | 4 | 20 |
| Xylene | | 5 | 0.281 | mg/L | 1 | 0.300 | <0.000552 | 94 | 70 - 130 | 6 | 20 |

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

| Surrogate | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|--|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT) | | 0.0933 | 0.0930 | mg/L | 1 | 0.100 | 93 | 93 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0886 | 0.0938 | mg/L | 1 | 0.100 | 89 | 94 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 126869
Prep Batch: 107342

Date Analyzed: 2015-12-09
QC Preparation: 2015-12-08

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Benzene | | 5 | 0.0487 | mg/L | 1 | 0.0500 | <0.000299 | 97 | 70 - 130 |
| Toluene | | 5 | 0.0460 | mg/L | 1 | 0.0500 | <0.000247 | 92 | 70 - 130 |
| Ethylbenzene | | 5 | 0.0400 | mg/L | 1 | 0.0500 | <0.000423 | 80 | 70 - 130 |
| Xylene | | 5 | 0.118 | mg/L | 1 | 0.150 | <0.000552 | 79 | 70 - 130 |

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

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| Param | F | C | LCSD | | Spike | | Matrix | | Rec. | | RPD | RPD | |
|--------------|---|----------------|----------------|-------|--------|--------|--------|--------|-----------|-----|----------|-----|----|
| | | | Result | Units | Dil. | Amount | Result | Rec. | Limit | RPD | Limit | | |
| Benzene | 1 | Q _r | Q _r | 5 | 0.0606 | mg/L | 1 | 0.0500 | <0.000299 | 121 | 70 - 130 | 22 | 20 |
| Toluene | | Q _r | Q _r | 5 | 0.0574 | mg/L | 1 | 0.0500 | <0.000247 | 115 | 70 - 130 | 22 | 20 |
| Ethylbenzene | | Q _r | Q _r | 5 | 0.0524 | mg/L | 1 | 0.0500 | <0.000423 | 105 | 70 - 130 | 27 | 20 |
| Xylene | | Q _r | Q _r | 5 | 0.157 | mg/L | 1 | 0.150 | <0.000552 | 105 | 70 - 130 | 28 | 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. |
|------------------------------|--------|--------|-------|------|--------|------|------|----------|------|
| | Result | Result | Units | Dil. | Amount | Rec. | Rec. | Limit | |
| Trifluorotoluene (TFT) | 0.0920 | 0.0905 | mg/L | 1 | 0.100 | 92 | 90 | 70 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | 0.0815 | 0.0855 | mg/L | 1 | 0.100 | 82 | 86 | 70 - 130 | |

Laboratory Control Spike (LCS-1)

QC Batch: 127169
Prep Batch: 107639

Date Analyzed: 2015-12-23
QC Preparation: 2015-12-10

Analyzed By: MN
Prepared By: MN

| Param | F | C | LCS | | Spike | | Matrix | | Rec. | |
|------------------------|----------------|----------------|-----------|-------|-------|--------|------------|------------|------------|----------|
| | | | Result | Units | Dil. | Amount | Result | Rec. | Limit | |
| Naphthalene | | 1,2,3,4,6 | 0.0653 | mg/L | 1 | 0.0800 | <0.0000656 | 82 | 49.7 - 120 | |
| 2-Methylnaphthalene | | 1,2,3,4,6 | 0.0682 | mg/L | 1 | 0.0800 | <0.0000516 | 85 | 44.6 - 120 | |
| 1-Methylnaphthalene | | 1 | 0.0709 | mg/L | 1 | 0.0800 | <0.0000663 | 89 | 10 - 189 | |
| Acenaphthylene | | 1,2,3,4,6 | 0.0689 | mg/L | 1 | 0.0800 | <0.0000581 | 86 | 40.9 - 120 | |
| Acenaphthene | | 1,2,3,4,6 | 0.0681 | mg/L | 1 | 0.0800 | <0.0000332 | 85 | 49.9 - 120 | |
| Dibenzofuran | | 1,2,3,4,6 | 0.0617 | mg/L | 1 | 0.0800 | <0.0000607 | 77 | 34 - 120 | |
| Fluorene | | 1,2,3,4,6 | 0.0654 | mg/L | 1 | 0.0800 | <0.0000788 | 82 | 49.7 - 120 | |
| Anthracene | | 1,2,3,4,6 | 0.0612 | mg/L | 1 | 0.0800 | <0.0000321 | 76 | 11.4 - 155 | |
| Phenanthrene | | 1,2,3,4,6 | 0.0642 | mg/L | 1 | 0.0800 | <0.0000516 | 80 | 41 - 120 | |
| Fluoranthene | | 1,2,3,4,6 | 0.0596 | mg/L | 1 | 0.0800 | <0.0000638 | 74 | 35.7 - 120 | |
| Pyrene | | 1,2,3,4,6 | 0.0814 | mg/L | 1 | 0.0800 | <0.0000415 | 102 | 19.5 - 139 | |
| Benzo(a)anthracene | | 1,2,3,4,6 | 0.0648 | mg/L | 1 | 0.0800 | <0.0000721 | 81 | 53.4 - 120 | |
| Chrysene | | 1,2,3,4,6 | 0.133 | mg/L | 1 | 0.0800 | <0.0000811 | 166 | 10 - 170 | |
| Benzo(b)fluoranthene | | 1,2,3,4,6 | 0.0634 | mg/L | 1 | 0.0800 | <0.0000710 | 79 | 29.2 - 120 | |
| Benzo(k)fluoranthene | | 1,2,3,4,6 | 0.0808 | mg/L | 1 | 0.0800 | <0.0000561 | 101 | 23.4 - 120 | |
| Benzo(a)pyrene | | 1,2,3,4,6 | 0.0724 | mg/L | 1 | 0.0800 | <0.0000418 | 90 | 23.4 - 120 | |
| Indeno(1,2,3-cd)pyrene | | 1,2,3,4,6 | 0.0835 | mg/L | 1 | 0.0800 | <0.0000537 | 104 | 10 - 129 | |
| Dibenzo(a,h)anthracene | Q _s | Q _s | 1,2,3,4,6 | 0.198 | mg/L | 1 | 0.0800 | <0.0000562 | 248 | 10 - 174 |
| Benzo(g,h,i)perylene | | 1,2,3,4,6 | 0.0824 | mg/L | 1 | 0.0800 | <0.0000519 | 103 | 30.6 - 120 | |

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

| Param | F | C | LCSD | | Spike | | Matrix | | Rec. | | RPD | RPD |
|-------------|---|-----------|--------|-------|-------|--------|------------|------|------------|-----|-------|-----|
| | | | Result | Units | Dil. | Amount | Result | Rec. | Limit | RPD | Limit | |
| Naphthalene | | 1,2,3,4,6 | 0.0693 | mg/L | 1 | 0.0800 | <0.0000656 | 87 | 49.7 - 120 | 6 | 20 | |

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| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD | RPD Limit |
|------------------------|----|----|------------------------------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
| 2-Methylnaphthalene | | | 1, ^{2,3,4,6} 0.0706 | mg/L | 1 | 0.0800 | <0.0000516 | 88 | 44.6 - 120 | 3 | 20 |
| 1-Methylnaphthalene | | | 1 0.0726 | mg/L | 1 | 0.0800 | <0.0000663 | 91 | 10 - 189 | 2 | 20 |
| Acenaphthylene | | | 1, ^{2,3,4,6} 0.0721 | mg/L | 1 | 0.0800 | <0.0000581 | 90 | 40.9 - 120 | 4 | 20 |
| Acenaphthene | | | 1, ^{2,3,4,6} 0.0708 | mg/L | 1 | 0.0800 | <0.0000332 | 88 | 49.9 - 120 | 4 | 20 |
| Dibenzofuran | | | 1, ^{2,3,4,6} 0.0653 | mg/L | 1 | 0.0800 | <0.0000607 | 82 | 34 - 120 | 6 | 20 |
| Fluorene | | | 1, ^{2,3,4,6} 0.0693 | mg/L | 1 | 0.0800 | <0.0000788 | 87 | 49.7 - 120 | 6 | 20 |
| Anthracene | | | 1, ^{2,3,4,6} 0.0635 | mg/L | 1 | 0.0800 | <0.0000321 | 79 | 11.4 - 155 | 4 | 20 |
| Phenanthrene | | | 1, ^{2,3,4,6} 0.0690 | mg/L | 1 | 0.0800 | <0.0000516 | 86 | 41 - 120 | 7 | 20 |
| Fluoranthene | | | 1, ^{2,3,4,6} 0.0628 | mg/L | 1 | 0.0800 | <0.0000638 | 78 | 35.7 - 120 | 5 | 20 |
| Pyrene | | | 1, ^{2,3,4,6} 0.0859 | mg/L | 1 | 0.0800 | <0.0000415 | 107 | 19.5 - 139 | 5 | 20 |
| Benzo(a)anthracene | | | 1, ^{2,3,4,6} 0.0675 | mg/L | 1 | 0.0800 | <0.0000721 | 84 | 53.4 - 120 | 4 | 20 |
| Chrysene | Qs | Qs | 1, ^{2,3,4,6} 0.138 | mg/L | 1 | 0.0800 | <0.0000811 | 172 | 10 - 170 | 4 | 20 |
| Benzo(b)fluoranthene | | | 1, ^{2,3,4,6} 0.0687 | mg/L | 1 | 0.0800 | <0.0000710 | 86 | 29.2 - 120 | 8 | 20 |
| Benzo(k)fluoranthene | | | 1, ^{2,3,4,6} 0.0873 | mg/L | 1 | 0.0800 | <0.0000561 | 109 | 23.4 - 120 | 8 | 20 |
| Benzo(a)pyrene | | | 1, ^{2,3,4,6} 0.0785 | mg/L | 1 | 0.0800 | <0.0000418 | 98 | 23.4 - 120 | 8 | 20 |
| Indeno(1,2,3-cd)pyrene | | | 1, ^{2,3,4,6} 0.0875 | mg/L | 1 | 0.0800 | <0.0000537 | 109 | 10 - 129 | 5 | 20 |
| Dibenzo(a,h)anthracene | Qs | Qs | 1, ^{2,3,4,6} 0.214 | mg/L | 1 | 0.0800 | <0.0000562 | 268 | 10 - 174 | 8 | 20 |
| Benzo(g,h,i)perylene | | | 1, ^{2,3,4,6} 0.0908 | mg/L | 1 | 0.0800 | <0.0000519 | 114 | 30.6 - 120 | 10 | 20 |

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

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Nitrobenzene-d5 | 0.0611 | 0.0652 | mg/L | 1 | 0.0800 | 76 | 82 | 10 - 120 |
| 2-Fluorobiphenyl | 0.0691 | 0.0722 | mg/L | 1 | 0.0800 | 86 | 90 | 35.9 - 120 |
| Terphenyl-d14 | 0.0835 | 0.0885 | mg/L | 1 | 0.0800 | 104 | 111 | 23.2 - 120 |

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Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 409496

QC Batch: 126822
Prep Batch: 107320

Date Analyzed: 2015-12-08
QC Preparation: 2015-12-07

Analyzed By: AK
Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | | 5 | 0.106 | mg/L | 1 | 0.100 | <0.000299 | 106 | 70 - 130 |
| Toluene | | 5 | 0.104 | mg/L | 1 | 0.100 | <0.000247 | 104 | 70 - 130 |
| Ethylbenzene | | 5 | 0.0993 | mg/L | 1 | 0.100 | <0.000423 | 99 | 70 - 130 |
| Xylene | | 5 | 0.287 | mg/L | 1 | 0.300 | <0.000552 | 96 | 70 - 130 |

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

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | | 5 | 0.109 | mg/L | 1 | 0.100 | <0.000299 | 109 | 70 - 130 | 3 | 20 |
| Toluene | | 5 | 0.105 | mg/L | 1 | 0.100 | <0.000247 | 105 | 70 - 130 | 1 | 20 |
| Ethylbenzene | | 5 | 0.0998 | mg/L | 1 | 0.100 | <0.000423 | 100 | 70 - 130 | 0 | 20 |
| Xylene | | 5 | 0.286 | mg/L | 1 | 0.300 | <0.000552 | 95 | 70 - 130 | 0 | 20 |

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

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. | Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|----------|-------|
| Trifluorotoluene (TFT) | 0.0923 | 0.0912 | mg/L | 1 | 0.1 | 92 | 91 | 70 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | 0.0903 | 0.0895 | mg/L | 1 | 0.1 | 90 | 90 | 70 - 130 | |

Matrix Spike (MS-1) Spiked Sample: 409525

QC Batch: 126869
Prep Batch: 107342

Date Analyzed: 2015-12-09
QC Preparation: 2015-12-08

Analyzed By: AK
Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | | 5 | 0.0933 | mg/L | 1 | 0.100 | <0.000299 | 93 | 70 - 130 |
| Toluene | | 5 | 0.0861 | mg/L | 1 | 0.100 | <0.000247 | 86 | 70 - 130 |
| Ethylbenzene | | 5 | 0.0775 | mg/L | 1 | 0.100 | <0.000423 | 78 | 70 - 130 |
| Xylene | | 5 | 0.229 | mg/L | 1 | 0.300 | <0.000552 | 76 | 70 - 130 |

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

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| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | | 5 | 0.0933 | mg/L | 1 | 0.100 | <0.000299 | 93 | 70 - 130 | 0 | 20 |
| Toluene | | 5 | 0.0883 | mg/L | 1 | 0.100 | <0.000247 | 88 | 70 - 130 | 2 | 20 |
| Ethylbenzene | | 5 | 0.0790 | mg/L | 1 | 0.100 | <0.000423 | 79 | 70 - 130 | 2 | 20 |
| Xylene | | 5 | 0.233 | mg/L | 1 | 0.300 | <0.000552 | 78 | 70 - 130 | 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) | 0.0826 | 0.0770 | mg/L | 1 | 0.1 | 83 | 77 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.0868 | 0.0817 | mg/L | 1 | 0.1 | 87 | 82 | 70 - 130 |

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Calibration Standards

Standard (CCV-1)

| Param | Flag | Cert | Units | CCVs | | Percent Recovery | Date Analyzed |
|--------------|------|------|-------|--------|-------|------------------|---------------|
| | | | | True | Found | | |
| Benzene | 5 | mg/L | 0.100 | 0.0926 | 93 | 80 - 120 | 2015-12-08 |
| Toluene | 5 | mg/L | 0.100 | 0.0896 | 90 | 80 - 120 | 2015-12-08 |
| Ethylbenzene | 5 | mg/L | 0.100 | 0.0888 | 89 | 80 - 120 | 2015-12-08 |
| Xylene | 5 | mg/L | 0.300 | 0.250 | 83 | 80 - 120 | 2015-12-08 |

Standard (CCV-2)

| Param | Flag | Cert | Units | CCVs | | Percent Recovery | Date Analyzed |
|--------------|------|------|-------|--------|-------|------------------|---------------|
| | | | | True | Found | | |
| Benzene | 5 | mg/L | 0.100 | 0.103 | 103 | 80 - 120 | 2015-12-08 |
| Toluene | 5 | mg/L | 0.100 | 0.0956 | 96 | 80 - 120 | 2015-12-08 |
| Ethylbenzene | 5 | mg/L | 0.100 | 0.0849 | 85 | 80 - 120 | 2015-12-08 |
| Xylene | 5 | mg/L | 0.300 | 0.243 | 81 | 80 - 120 | 2015-12-08 |

Standard (CCV-1)

| Param | Flag | Cert | Units | CCVs | | Percent Recovery | Date Analyzed |
|--------------|------|------|-------|--------|-------|------------------|---------------|
| | | | | True | Found | | |
| Benzene | 5 | mg/L | 0.100 | 0.0963 | 96 | 80 - 120 | 2015-12-09 |
| Toluene | 5 | mg/L | 0.100 | 0.0944 | 94 | 80 - 120 | 2015-12-09 |
| Ethylbenzene | 5 | mg/L | 0.100 | 0.0868 | 87 | 80 - 120 | 2015-12-09 |
| Xylene | 5 | mg/L | 0.300 | 0.250 | 83 | 80 - 120 | 2015-12-09 |

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Standard (CCV-2)

QC Batch: 126869

Date Analyzed: 2015-12-09

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | 5 | | mg/L | 0.100 | 0.104 | 104 | 80 - 120 | 2015-12-09 |
| Toluene | 5 | | mg/L | 0.100 | 0.101 | 101 | 80 - 120 | 2015-12-09 |
| Ethylbenzene | 5 | | mg/L | 0.100 | 0.0907 | 91 | 80 - 120 | 2015-12-09 |
| Xylene | 5 | | mg/L | 0.300 | 0.262 | 87 | 80 - 120 | 2015-12-09 |

Standard (CCV-1)

QC Batch: 127169

Date Analyzed: 2015-12-23

Analyzed By: MN

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------------|-----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Naphthalene | 1,2,3,4,6 | | mg/L | 60.0 | 58.6 | 98 | 80 - 120 | 2015-12-23 |
| 2-Methylnaphthalene | 1,2,3,4,6 | | mg/L | 60.0 | 59.3 | 99 | 80 - 120 | 2015-12-23 |
| 1-Methylnaphthalene | 1 | | mg/L | 60.0 | 60.0 | 100 | 80 - 120 | 2015-12-23 |
| Acenaphthylene | 1,2,3,4,6 | | mg/L | 60.0 | 60.8 | 101 | 80 - 120 | 2015-12-23 |
| Acenaphthene | 1,2,3,4,6 | | mg/L | 60.0 | 60.8 | 101 | 80 - 120 | 2015-12-23 |
| Dibenzofuran | 1,2,3,4,6 | | mg/L | 60.0 | 62.3 | 104 | 80 - 120 | 2015-12-23 |
| Fluorene | 1,2,3,4,6 | | mg/L | 60.0 | 63.2 | 105 | 80 - 120 | 2015-12-23 |
| Anthracene | 1,2,3,4,6 | | mg/L | 60.0 | 56.8 | 95 | 80 - 120 | 2015-12-23 |
| Phenanthrene | 1,2,3,4,6 | | mg/L | 60.0 | 57.1 | 95 | 80 - 120 | 2015-12-23 |
| Fluoranthene | 1,2,3,4,6 | | mg/L | 60.0 | 51.1 | 85 | 80 - 120 | 2015-12-23 |
| Pyrene | 1,2,3,4,6 | | mg/L | 60.0 | 69.2 | 115 | 80 - 120 | 2015-12-23 |
| Benzo(a)anthracene | 1,2,3,4,6 | | mg/L | 60.0 | 56.6 | 94 | 80 - 120 | 2015-12-23 |
| Chrysene | 1,2,3,4,6 | | mg/L | 60.0 | 57.6 | 96 | 80 - 120 | 2015-12-23 |
| Benzo(b)fluoranthene | 1,2,3,4,6 | | mg/L | 60.0 | 51.7 | 86 | 80 - 120 | 2015-12-23 |
| Benzo(k)fluoranthene | 1,2,3,4,6 | | mg/L | 60.0 | 64.6 | 108 | 80 - 120 | 2015-12-23 |
| Benzo(a)pyrene | 1,2,3,4,6 | | mg/L | 60.0 | 55.0 | 92 | 80 - 120 | 2015-12-23 |
| Indeno(1,2,3-cd)pyrene | 1,2,3,4,6 | | mg/L | 60.0 | 52.0 | 87 | 80 - 120 | 2015-12-23 |
| Dibenzo(a,h)anthracene | 1,2,3,4,6 | | mg/L | 60.0 | 50.1 | 84 | 80 - 120 | 2015-12-23 |
| Benzo(g,h,i)perylene | 1,2,3,4,6 | | mg/L | 60.0 | 52.5 | 88 | 80 - 120 | 2015-12-23 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limit |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5 | | | 50.3 | mg/L | 1 | 60.0 | 84 | - |
| 2-Fluorobiphenyl | | | 58.7 | mg/L | 1 | 60.0 | 98 | - |
| Terphenyl-d14 | | | 65.8 | mg/L | 1 | 60.0 | 110 | - |

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Standard (CCV-2)

QC Batch: 127169

Date Analyzed: 2015-12-23

Analyzed By: MN

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Naphthalene | | 1,2,3,4,6 | mg/L | 60.0 | 58.2 | 97 | 80 - 120 | 2015-12-23 |
| 2-Methylnaphthalene | | 1,2,3,4,6 | mg/L | 60.0 | 57.2 | 95 | 80 - 120 | 2015-12-23 |
| 1-Methylnaphthalene | | 1 | mg/L | 60.0 | 57.1 | 95 | 80 - 120 | 2015-12-23 |
| Acenaphthylene | | 1,2,3,4,6 | mg/L | 60.0 | 61.5 | 102 | 80 - 120 | 2015-12-23 |
| Acenaphthene | | 1,2,3,4,6 | mg/L | 60.0 | 60.4 | 101 | 80 - 120 | 2015-12-23 |
| Dibenzofuran | | 1,2,3,4,6 | mg/L | 60.0 | 60.9 | 102 | 80 - 120 | 2015-12-23 |
| Fluorene | | 1,2,3,4,6 | mg/L | 60.0 | 60.3 | 100 | 80 - 120 | 2015-12-23 |
| Anthracene | | 1,2,3,4,6 | mg/L | 60.0 | 56.9 | 95 | 80 - 120 | 2015-12-23 |
| Phenanthrene | | 1,2,3,4,6 | mg/L | 60.0 | 57.5 | 96 | 80 - 120 | 2015-12-23 |
| Fluoranthene | | 1,2,3,4,6 | mg/L | 60.0 | 53.1 | 88 | 80 - 120 | 2015-12-23 |
| Pyrene | | 1,2,3,4,6 | mg/L | 60.0 | 70.1 | 117 | 80 - 120 | 2015-12-23 |
| Benzo(a)anthracene | | 1,2,3,4,6 | mg/L | 60.0 | 57.9 | 96 | 80 - 120 | 2015-12-23 |
| Chrysene | | 1,2,3,4,6 | mg/L | 60.0 | 57.7 | 96 | 80 - 120 | 2015-12-23 |
| Benzo(b)fluoranthene | | 1,2,3,4,6 | mg/L | 60.0 | 53.1 | 88 | 80 - 120 | 2015-12-23 |
| Benzo(k)fluoranthene | | 1,2,3,4,6 | mg/L | 60.0 | 63.0 | 105 | 80 - 120 | 2015-12-23 |
| Benzo(a)pyrene | | 1,2,3,4,6 | mg/L | 60.0 | 55.9 | 93 | 80 - 120 | 2015-12-23 |
| Indeno(1,2,3-cd)pyrene | | 1,2,3,4,6 | mg/L | 60.0 | 53.1 | 88 | 80 - 120 | 2015-12-23 |
| Dibenzo(a,h)anthracene | | 1,2,3,4,6 | mg/L | 60.0 | 51.8 | 86 | 80 - 120 | 2015-12-23 |
| Benzo(g,h,i)perylene | | 1,2,3,4,6 | mg/L | 60.0 | 53.2 | 89 | 80 - 120 | 2015-12-23 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limit |
|------------------|------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5 | | | 52.2 | mg/L | 1 | 60.0 | 87 | - |
| 2-Fluorobiphenyl | | | 61.9 | mg/L | 1 | 60.0 | 103 | - |
| Terphenyl-d14 | | | 68.1 | mg/L | 1 | 60.0 | 114 | - |

Appendix

Report Definitions

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

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | L-A-B | L2418 | Lubbock |
| 2 | Kansas | Kansas E-10317 | Lubbock |
| 3 | LELAP | LELAP-02003 | Lubbock |
| 4 | NELAP | T104704219-15-11 | Lubbock |
| 5 | NELAP | T104704392-14-8 | Midland |
| 6 | | 2015-066 | Lubbock |

Standard Flags

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

Report Date: December 23, 2015
074684

Work Order: 15120425
Darr Angel #4

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Lovington, NM

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

Result Comments

- 1 Use MS/MSD to show analysis is in control.

Attachments

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

LAB Order ID # **151200425****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

Company Name:

(440 Midland)

Address:

2135 S Loop 250 N Midland, TX 79703

Contact Person:

John Ferguson

Invoice to:

(If different from above)

Project #:

W74910

Project Location (including state):
Lubbock, TX

Phone #:

432-684-9848

Fax #:

432-984-9848

E-mail:

John.Ferguson@C6H4.com

Project Name: Dem 4

Sampler Signature: *John*

| FIELD CODE | MATRIX | PRESERVATIVE METHOD | SAMPLING | | TIME | DATE |
|------------|--------|---------------------|-----------------|--------------|------|----------------|
| | | | VOLUME / AMOUNT | # CONTAINERS | | |
| 409496 | WATER | AIR | X | 3 | X | 11/11/14 12:00 |
| 409497 | SOIL | SOLIDGE | X | 3 | X | 11/11/14 12:00 |
| 409498 | WATER | AIR | X | 3 | X | 11/11/14 12:00 |
| 409499 | WATER | AIR | X | 4 | X | 11/11/14 12:00 |
| 409500 | WATER | AIR | X | 4 | X | 11/11/14 12:00 |
| 409501 | WATER | AIR | X | 4 | X | 11/11/14 12:00 |
| 409502 | WATER | AIR | X | 4 | X | 11/11/14 12:00 |
| 409503 | WATER | AIR | X | 3 | - | - |

LAB # **(LAB USE ONLY)**

409496

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

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

Relinquished by: *John* Company: *None* Date: *12-4-15* Time: *12:45* Received by: *None* Company: *None* Date: *12-4-15* Time: *12:45* LAB USE ONLY

Relinquished by: *John TA* Company: *None* Date: *12-7-15* Time: *13:55* Received by: *None* Company: *None* Date: *12-7-15* Time: *13:55* LAB USE ONLY

Relinquished by: *John TA* Company: *None* Date: *12-7-15* Time: *13:55* Received by: *None* Company: *None* Date: *12-7-15* Time: *13:55* LAB USE ONLY

REMARKS: Dry Weight Basis Required TRRP Report Required Check If Special Reporting Limits Are Needed

Carrier #

ORIGINAL COPY

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