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2014
ANNUAL MONITORING REPORT

JUNCTION 34 TO LEA STATION

LEA COUNTY, NEW MEXICO
NW ¼ SW ¼, SECTION 21, TOWNSHIP 20 SOUTH, RANGE 37 EAST
PLAINS SRS NUMBER: 2002-10286
NMOCD Reference # 1R-0386

PREPARED FOR:

PLAINS MARKETING, L.P.
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PREPARED BY:

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March 2015

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ENCLOSED ON DATA DISK

2014 Annual Monitoring Report
2014 Tables 1, 2, and 3 – Groundwater Elevation, BTEX, and PAH Concentration Data
2014 Figures 1, 2, 3A-3D, 4A-4D, 5, and 6
Electronic Copies of Laboratory Reports
Historic Table 1, 2, and 3 – Groundwater Elevation, BTEX, and PAH Concentration Tables

INTRODUCTION

On behalf of Plains Marketing, L.P. (Plains), TRC Solutions, Inc. (TRC) is pleased to submit this 2014 Annual Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. Beginning on or about January 16, 2007, project management responsibilities were assumed by TRC, previously NOVA Safety and Environmental. The site was previously managed by Environmental Plus, Inc. (EPI). This report is intended to be viewed as a complete document with figures, appendices, tables and text. The report presents the results of the four (4) quarterly groundwater monitoring events conducted in calendar year 2014. For reference, the Site Location Map is provided as Figure 1. A Site Map is provided as Figure 2.

Groundwater monitoring was conducted during each quarter of 2014 to assess the levels and extent of dissolved phase constituents and Phase Separated Hydrocarbon (PSH). Each groundwater monitoring event consisted of measuring static water levels in monitor wells, checking for the presence of PSH on the water column and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing a thickness of PSH greater than 0.01 foot were not sampled.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The Junction 34 to Lea (2002-10286) Release Site is located approximately ten (10) miles northwest of Eunice in Lea County, New Mexico. The site is located in the NW ¼ SW ¼, Section 21, Township 20 South, Range 37 East. The Release Notification and Corrective Action (Form C-141) submitted by EOTT reported approximately 300 barrels of crude oil released with 190 barrels recovered (see Appendix B). The release is reported to have been due to internal corrosion of the pipeline. The release covered approximately 10,769 square feet of pipeline right-of-way, caliche road, and land owned by the Deck Estate. Upon discovery of the release on November 6, 2002, a contractor and EOTT personnel mobilized to the site, exposed the pipeline and installed a pipe repair clamp. Hydrocarbon impacted soil excavated during the emergency response activities was transported to an NMOCD approved land farm. In February 2003, hydrocarbon impacted soil, previously identified by the advancement of nine (9) soil borings, was excavated to a depth of approximately twenty five (25) feet below ground surface (bgs). The excavated soil was stockpiled on site for future remediation.

A *Soil Closure Strategy and Site Restoration Work Plan* (Work Plan) was submitted to the NMOCD in February 2008. The Work Plan proposed soil remediation activities intended to progress the site toward an NMOCD approved closure.

In February 2008, Plains received approval from the NMOCD to commence the activities outlined in the Work Plan. Following the completion of the soil remediation activities, a *Soil Closure Request* dated July 2009 was submitted to the NMOCD for approval. On October 22, 2009, Plains received an email from the NMOCD approving the *Soil Closure Request* at the Junction 34 to Lea Station release site.

In the 4th quarter of 2012, during backfilling activities at the nearby TNM 97-17 (AP-017) Release Site, monitor well MW-11 was damaged and could not be gauged or sampled.

On February 4, 2014, with NMOCD approval, monitor well MW-11 was plugged and abandoned by a licensed New Mexico Driller. Plugging and abandonment records were mailed to the NMOCD – Santa Fe Office on March 20, 2014.

On February 4, 2014, monitor wells MW-11A and MW-12 were installed at the Release Site. Monitor well MW-11A is located approximately twenty (20) feet southeast of monitor well MW-11 (Plugged and abandoned on February 4, 2014) and monitor well MW-12 is located approximately one hundred (100) feet west of monitor well MW-11A. Please reference Figure 2 for a Site Map. Soil boring logs are provided as Appendix A.

Currently, there are twelve (12) groundwater monitor wells (MW-1 through MW-10, MW-11A, and MW-12) on site.

FIELD ACTIVITIES

Product Recovery Efforts

During the reporting period, no measurable thickness of PSH was detected in the site monitor wells. Table 1 displays the groundwater gauging data for the reporting period. Historic groundwater elevation data beginning at project inception is provided on the enclosed data disk.

Groundwater Monitoring

Quarterly monitoring events for the reporting period were performed according to the following sampling schedule, which was amended by the NMOCD.

NMOCD Approved Sampling Schedule							
MW-1	Quarterly	MW-5	Quarterly	MW-9	Annually	MW-12	Quarterly
MW-2	Quarterly	MW-6	Quarterly	MW-10	Quarterly		
MW-3	Quarterly	MW-7	Quarterly	MW-11	P&A		
MW-4	Annually	MW-8	Annually	MW-11A	Quarterly		

The site monitor wells were gauged and sampled on February 24, May 7, August 16, and November 11, 2014. During each sampling event, monitor wells were purged of a minimum of three (3) well volumes of water or until the wells failed to produce water. Purging was performed using a disposable polyethylene bailer for each well or electrical Grundfos pump and dedicated tubing. Groundwater was allowed to recharge and samples were collected using disposable Teflon samplers. Water samples were placed in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of at a licensed disposal facility.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during quarterly sampling events performed in 2014, are depicted on the Inferred Groundwater Gradient Map(s), Figures 3A-3D. Groundwater elevation data for

2014 is provided as Table 1. Historic groundwater elevation data beginning at project inception is provided on the enclosed data disk.

The most recent Inferred Groundwater Gradient Map, Figure 3D, indicates a general gradient of 0.003 feet/foot to the southeast.

LABORATORY RESULTS

Groundwater samples obtained during the quarterly sampling events of 2014 were delivered to Trace Analysis, Inc. in Midland, Texas for determination of Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) constituent concentrations by EPA Method 8021B. Polynuclear Aromatic Hydrocarbons (PAH) analysis was conducted on monitor wells MW-1, MW-3, MW-7, MW-11A, and MW-12 during 2014. Based upon historic PAH analytical data, only those wells exhibiting elevated constituent concentrations above WQCC standards are sampled, with the exclusion of those wells containing measurable PSH thicknesses. A listing of BTEX constituent concentrations for 2014 are summarized in Table 2 and the historic PAH constituent concentrations are summarized in Table 3. Copies of the laboratory reports generated for 2014 are provided on the enclosed data disk. The quarterly groundwater sample results for BTEX constituent concentrations are depicted on Figures 4A through 4D.

Monitor well MW-1 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.380 during the 4th quarter to 0.461 mg/L during the 1st quarter of 2014. Benzene concentrations were above the NMOCD regulatory guidelines of 0.01 mg/L during the four (4) quarters of the reporting period. Toluene concentrations were below the laboratory method detection limit (MDL) and NMOCD regulatory guidelines of 0.75 mg/L during the four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from 0.311 mg/L during the 2nd quarter to 0.582 mg/L during the 1st quarter of 2014. Ethylbenzene concentrations were below the NMOCD regulatory guidelines of 0.75 mg/L during the four (4) quarters of the reporting period. Xylene concentrations ranged from 0.165 mg/L during the 2nd quarter to 0.266 mg/L during the 3rd quarter of 2014. Xylene concentrations were below NMOCD regulatory guidelines of 0.62 mg/L during the four (4) quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.044 mg/L), 1-methylnaphthalene (0.0656 mg/L), and 2-methylnaphthalene (0.0142 mg/L).

Monitor well MW-2 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.274 mg/L during the 3rd quarter to 0.687 mg/L during the 1st quarter of 2014. Benzene concentrations were above the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Toluene concentrations were below the laboratory Method Detection Limit (MDL) and NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from <0.0500 mg/L during the 3rd quarter to 0.176 mg/L during the 1st quarter. Ethylbenzene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Xylene concentrations ranged from <0.0500 mg/L during the 3rd quarter to 0.0944 mg/L during the 4th quarter of 2014. Xylene concentrations were below the NMOCD regulatory guidelines during

the four (4) quarters of the reporting period. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-3 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.295 mg/L during the 2nd quarter to 0.403 mg/L during the 3rd quarter. Benzene concentrations were above the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Toluene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from <0.0500 mg/L during the 1st, 3rd, and 4th quarters to 0.0579 mg/L during the 2nd quarter. Ethylbenzene concentrations were below NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Xylene concentrations ranged from <0.150 mg/L during the 1st and 2nd quarters to 0.0754 mg/L during the 4th quarter of 2014. Xylene concentrations were below regulatory guidelines during the four (4) quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.00497 mg/L), and 1-methylnaphthalene (0.512 mg/L).

Monitor well MW-4 is sampled on an annual schedule. Analytical results indicate benzene, toluene, ethylbenzene, and xylene concentrations were below the MDL and NMOCD regulatory guidelines during the 4th quarter of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 2nd quarter sampling event of 2004. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-5 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0235 mg/L during the 2nd quarter to 0.0548 mg/L during the 4th quarter. Benzene concentrations were above the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Toluene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from <0.00500 mg/L during the 1st quarter to 0.331 mg/L during the 4th quarter. Ethylbenzene concentrations were below NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Xylene concentrations ranged from <0.00300 mg/L during the 2nd quarter to 0.0648 mg/L during the 4th quarter of 2014. Xylene concentrations were below regulatory guidelines during the four (4) quarters of the reporting period. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-6 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.00100 mg/L during the 2nd and 4th quarters to 0.00690 mg/L during the 1st quarter. Benzene concentrations were below NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Toluene, ethylbenzene, and xylene concentrations were below the MDL and NMOCD regulatory guidelines during the four (4) quarters of the reporting period. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 2nd quarter sampling event of 2009. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-7 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.439 mg/L during the 2nd quarter to 0.575 mg/L during the 4th quarter. Benzene concentrations were above the NMOCD regulatory guidelines during the four

(4) quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from 0.146 mg/L during the 2nd quarter to 0.310 mg/L during the 4th quarter. Ethylbenzene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Xylene concentrations ranged from <0.150 mg/L during the 1st and 2nd quarters to 0.0.0995 mg/L during the 4th quarter. Xylene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards for naphthalene (0.026 mg/L), 1-methylnaphthalene (0.0549 mg/L), and 2-methylnaphthalene (0.00821 mg/L).

Monitor well MW-8 is sampled on an annual schedule and analytical results indicate constituent concentrations were below the MDL and NMOCD regulatory guidelines during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 1st quarter sampling event of 2006. PAH analysis was not conducted during the 4th quarter sampling event.

Monitor well MW-9 is sampled on an annual schedule and analytical results indicate BTEX constituent concentrations were below the MDL and NMOCD regulatory guidelines during the 4th quarter sampling event. The analytical results indicate BTEX constituent concentrations have been below NMOCD regulatory guidelines since the 1st quarter sampling event of 2006. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-10 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.0200 mg/L during the 4th quarter to 0.284 mg/L during the 1st quarter. Benzene concentrations were above the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Toluene concentrations were below the MDL and NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0035 mg/L during the 3rd quarter to 0.0216 mg/L during the 4th quarter. Ethylbenzene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. Xylene concentrations ranged from <0.00300 mg/L during the 1st quarter to <0.150 mg/L during the 2nd quarter. Xylene concentrations were below the NMOCD regulatory guidelines during the four (4) quarters of the reporting period. PAH analysis was not required during the 4th quarter sampling event.

Monitor well MW-11 was plugged and abandoned on February 4, 2014 by a licensed New Mexico Driller.

Monitor well MW-11A is sampled on an annual schedule and analytical results indicate constituent concentrations were below the MDL and NMOCD regulatory guidelines during the 4th quarter sampling event. PAH analysis during the 4th quarter sampling event indicated all concentrations were below MDLs and WQCC Drinking Water Standards during the reporting period.

Monitor well MW-12 is sampled on an annual schedule and analytical results indicate constituent concentrations were below the MDL and NMOCD regulatory guidelines during the

4th quarter sampling event. PAH analysis during the 4th quarter sampling event indicated all concentrations were below MDLs and WQCC Drinking Water Standards during the reporting period.

Laboratory analytical results were compared to NMOCD regulatory limits based on the New Mexico groundwater guidelines found in section 20.6.2.3103 of the New Mexico Administrative Code.

SUMMARY

This report presents the results of monitoring activities for the 2014 annual monitoring period. Currently, there are twelve (12) groundwater monitor wells (MW-1 through MW-10, MW-11A, and MW-12) on site. The most recent Inferred Groundwater Gradient Map, Figure 2D, indicates a general gradient of 0.003 feet/foot to the southeast.

During the reporting period, no measurable thickness of PSH was detected in the site monitor wells.

Review of the laboratory analytical results of the groundwater samples obtained during this annual reporting period indicate BTEX constituent concentrations are below the applicable NMOCD regulatory guidelines in six (6) of the twelve (12) monitor wells on site. At this time, dissolved phase impact appears to be delineated and limited to monitor wells MW-1 through MW-3, MW-5, MW-7, and MW-10. Review of PAH analysis indicates fluctuating constituent concentrations in monitor wells MW-1, MW-3, MW-7, MW-11A, and MW-12.

For a better understanding of the dissolved phase plume delineation to the east of the Release Site, Plains has combined the 34 Junction to Lea (NMOCD Reference #1RP-0386) and TNM 97-17 (NMOCD Reference #AP-017) Inferred Groundwater Gradient Map as Figure 5 and Groundwater Concentration and Inferred PSH Extent Maps as Figure 6. Figure 6 illustrates the most recent BTEX concentrations in groundwater immediately east of 34 Junction to Lea monitor wells MW-1, MW-5, MW-7, and MW-10. The up-gradient and westerly cross-gradient monitor wells at TNM 97-17 do not indicate the presence of BTEX constituents, indicating the two (2) dissolved phase plumes appear to be separate.

ANTICIPATED ACTIONS

Quarterly and annual monitoring and groundwater sampling will continue in 2015. Gauging will continue on a monthly or quarterly schedule according to site conditions.

Based on the results of the PAH analysis over the past several years, PAH analysis will be conducted only on monitor wells MW-1, MW-3, and MW-7.

A 2015 Annual Monitoring Report will be submitted to the NMOCD by April 1, 2016.

LIMITATIONS

TRC has prepared this Annual Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals and information generated by EPI. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or Plains.

DISTRIBUTION

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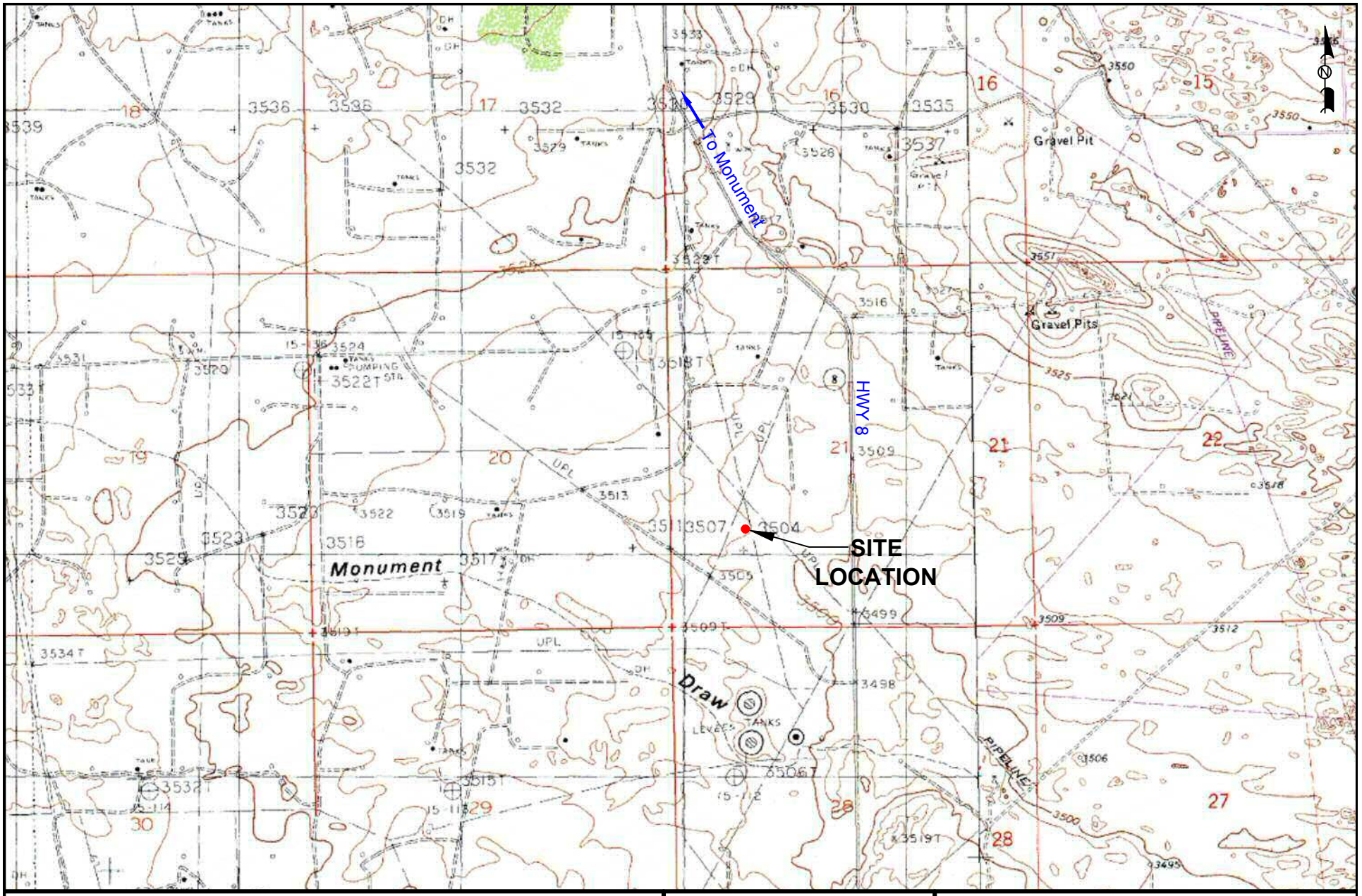
Figures



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Distance in Feet

Figure 1
Site Location Map
Plains Marketing, L.P.
34 Junction To Lea Station
NMOCD Reference # 1R-0386
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

June 4, 2014	Scale: 1" = 2000'	CAD By: TA	Checked By: CS
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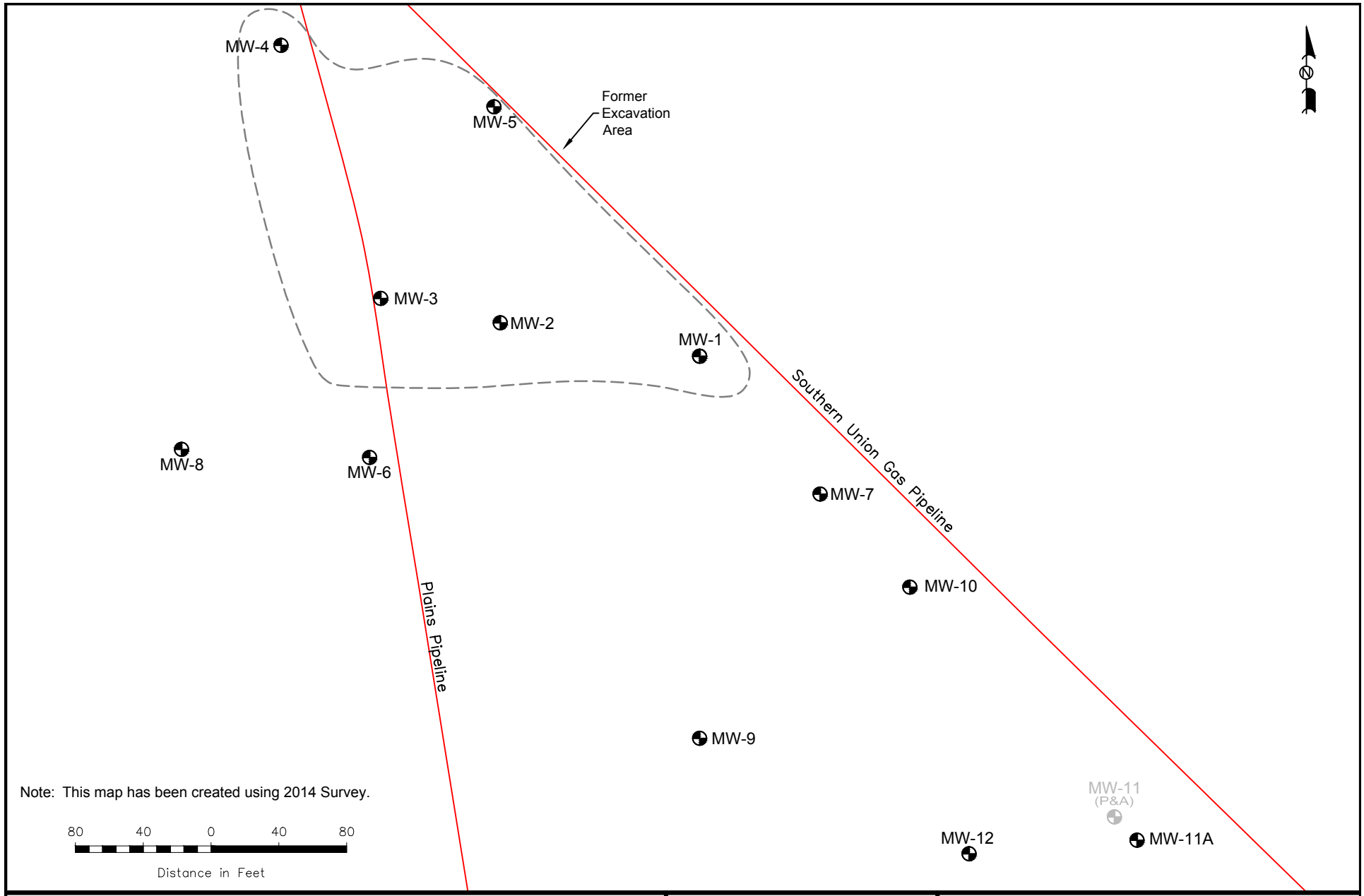

LEGEND:

- Monitor Well Location
- Pipeline

Figure 2
Site Map
Plains Marketing, L.P.
34 Junction To Lea Station
NMOCD Reference # 1R-0386
Lea County, NM

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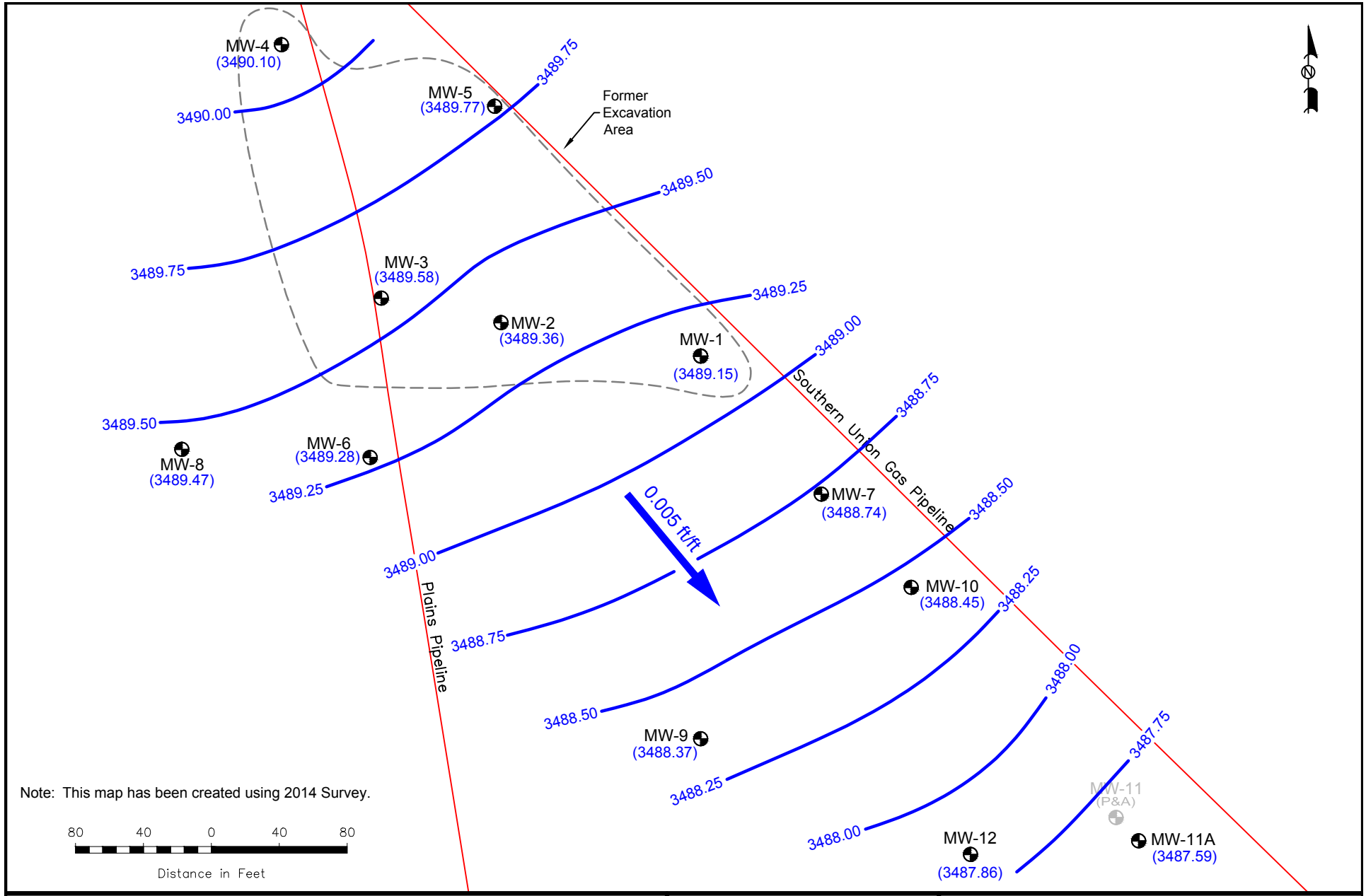

LEGEND:

- Monitor Well Location
- Pipeline
- (3791.69) Grounwater Elevation (Feet)
- Grounwater Elevation Contour Line
- (NA) Not Applicable
- P&A Plugged and Abandoned

NOTE:

- Contour Interval = 0.25'
- Groundwater Gradient Measured Between MW-4 and MW-11A

Figure 3A
Inferred Groundwater Gradient Map
(2/24/2014)
NMOCD Reference #1R-0386
Plains Marketing, L.P.
34 Junction to Lea Station
Lea County, NM

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June 4, 2014	Scale: 1" = 80'	CAD By: TA	Checked By: CS
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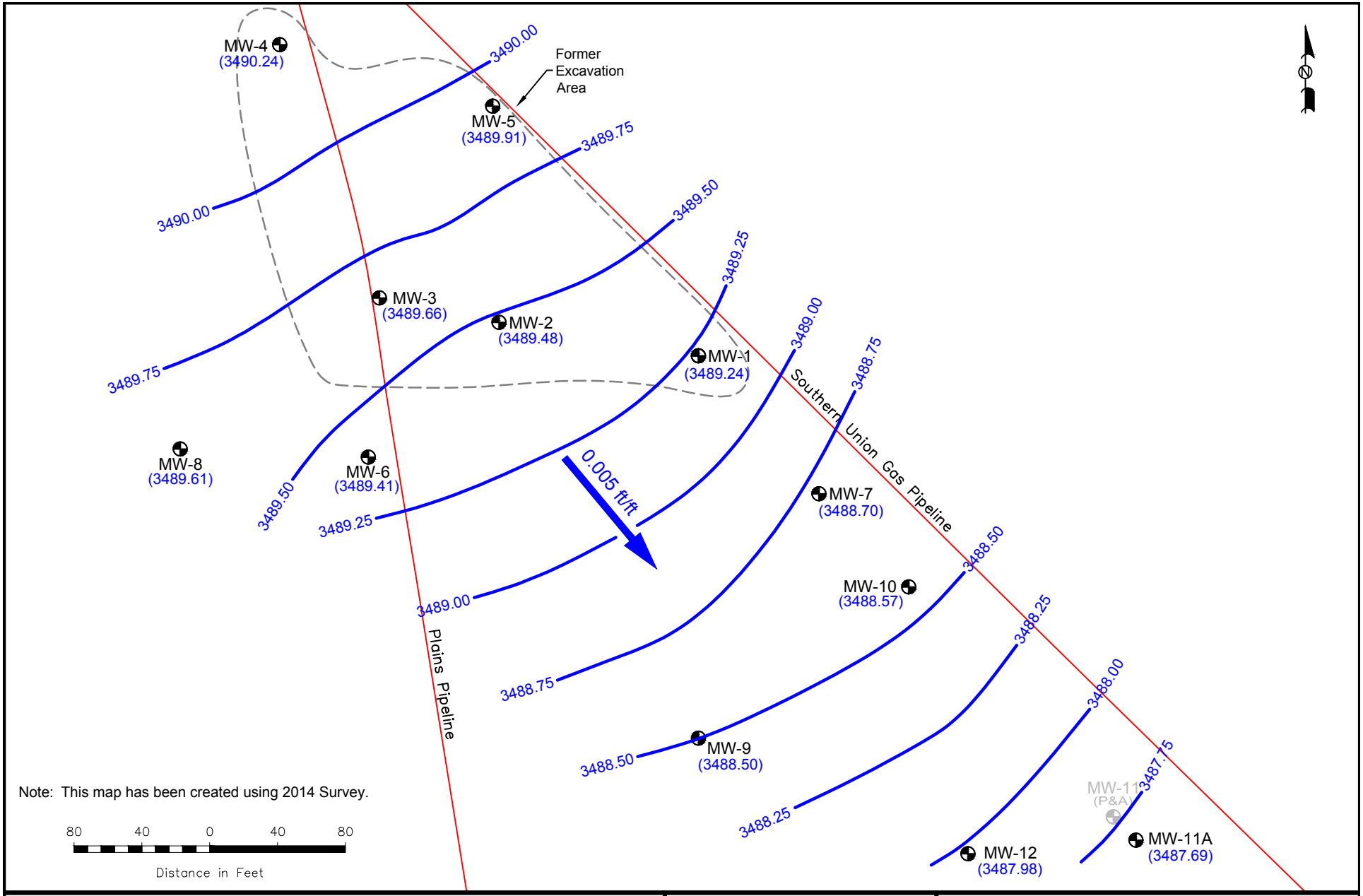

LEGEND:

- Monitor Well Location
- Pipeline
- (3791.69) Grounwater Elevation (Feet)
- Grounwater Elevation Contour Line
- (NA) Not Applicable
- P&A Plugged and Abandoned

NOTE:

- Contour Interval = 0.25'
- Groundwater Gradient Measured Between MW-4 and MW-11A

Figure 3B
Inferred Groundwater Gradient Map
(5/7/2014)
NMOCD Reference #1R-0386
Plains Marketing, L.P.
34 Junction to Lea Station
Lea County, NM

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June 4, 2014	Scale: 1" = 80'	CAD By: TA	Checked By: CS
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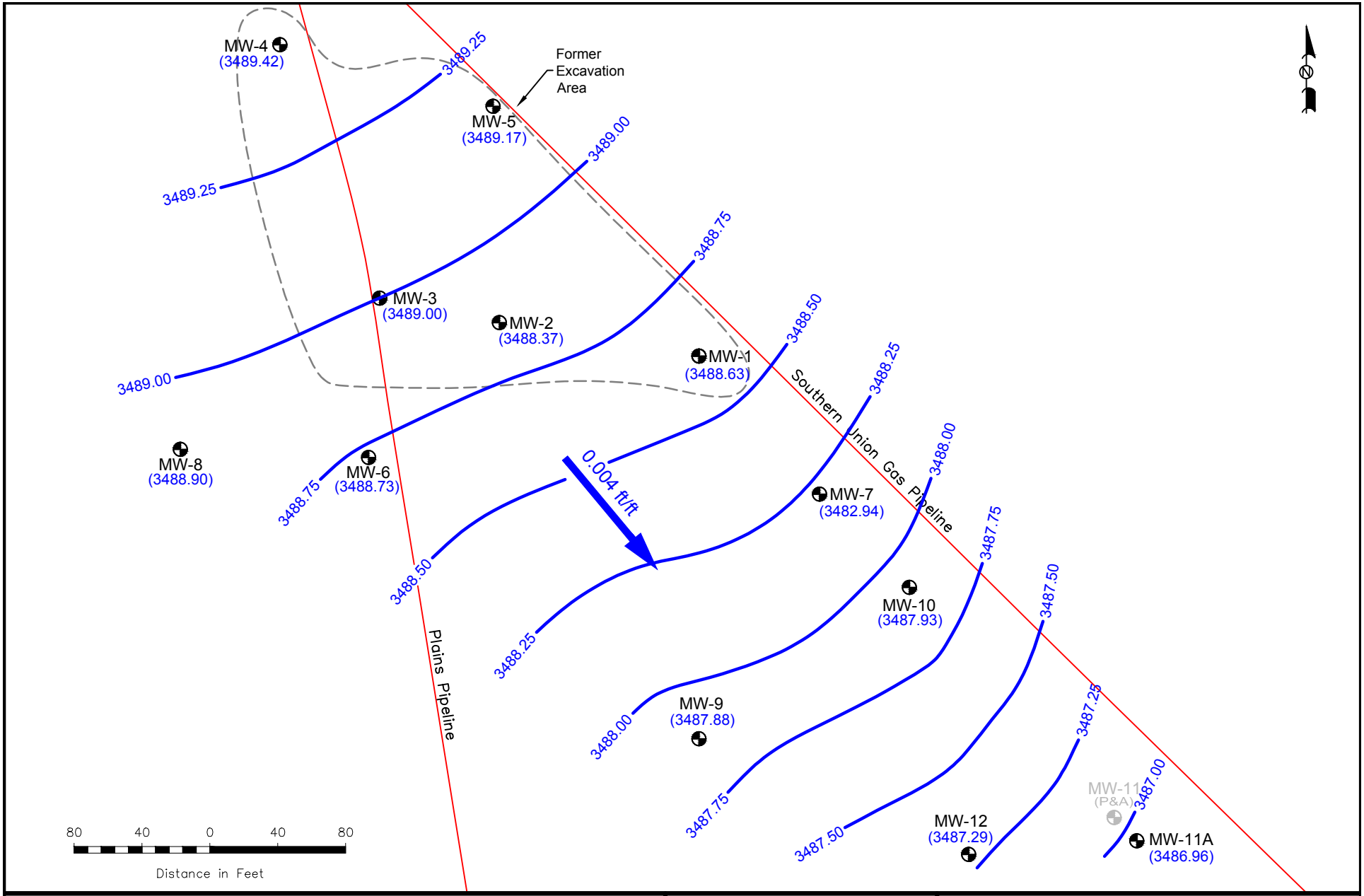

LEGEND:

- Monitor Well Location
- Pipeline
- (3791.69) Grounwater Elevation (Feet)
- Grounwater Elevation Contour Line
- (NA) Not Applicable
- P&A Plugged and Abandoned

NOTE:

- Contour Interval = 0.25'
- Groundwater Gradient Measured Between MW-4 and MW-11A
- This map has been created using 2014 Survey.
- MW-2 & MW-7 not used in map construction due to anomoly.

Figure 3C
Inferred Groundwater Gradient Map
(8/16/2014)
NMOCD Reference #1R-0386
Plains Marketing, L.P.
34 Junction to Lea Station
Lea County, NM

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September 5, 2014	Scale: 1" = 80'	CAD By: TA	Checked By: CS
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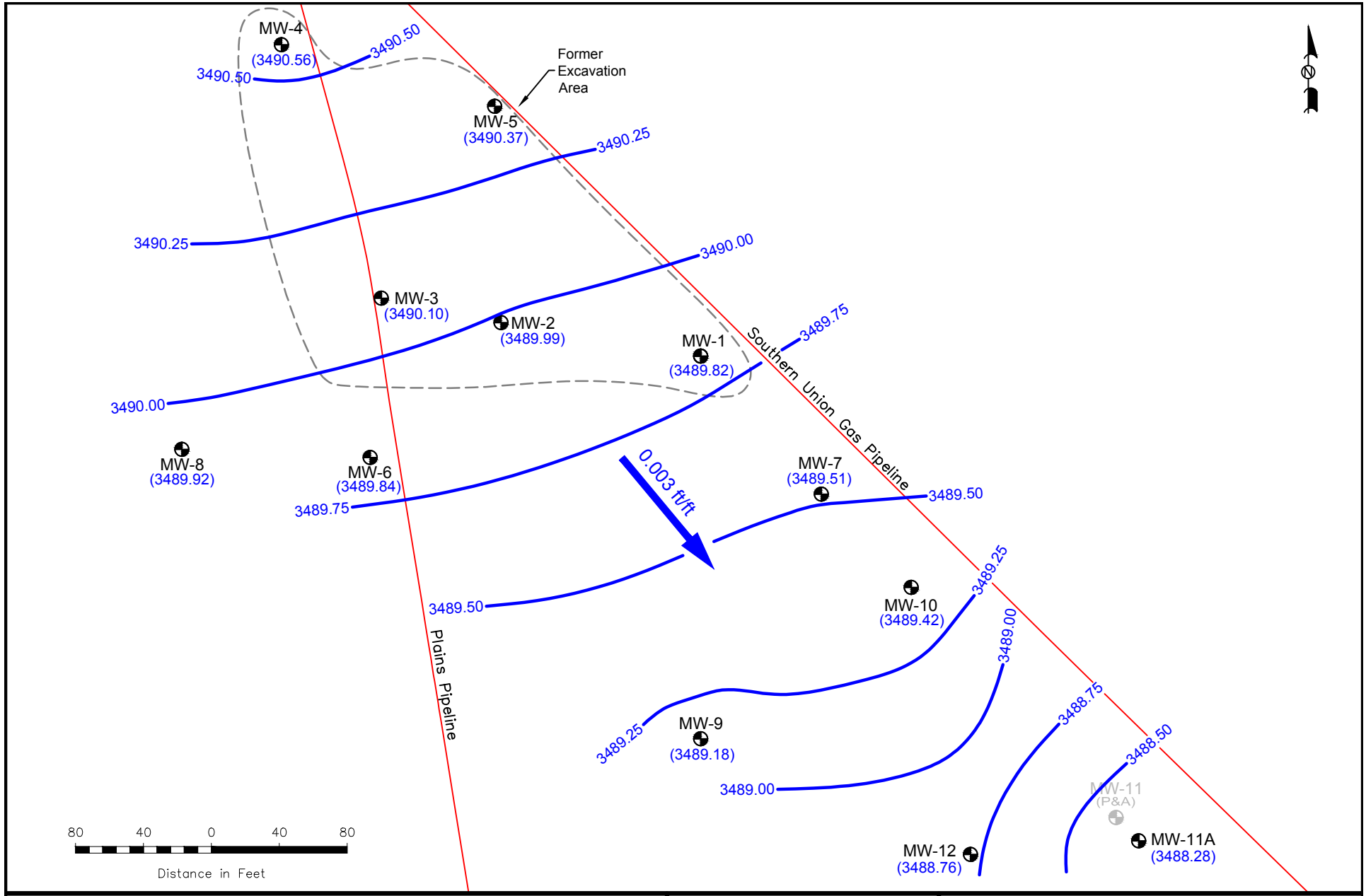

LEGEND:

- Monitor Well Location
- Pipeline
- (3791.69) Grounwater Elevation (Feet)
- Grounwater Elevation Contour Line
- (NA) Not Applicable
- P&A Plugged and Abandoned

NOTE:

- Contour Interval = 0.25'
- Groundwater Gradient Measured Between MW-4 and MW-11A
- This map has been created using 2014 Survey.

Figure 3D
Inferred Groundwater Gradient Map
(11/11/2014)
NMOCD Reference #1R-0386
Plains Marketing, L.P.
34 Junction to Lea Station
Lea County, NM

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November 14, 2014	Scale: 1" = 80'	CAD By: TA	Checked By: CS
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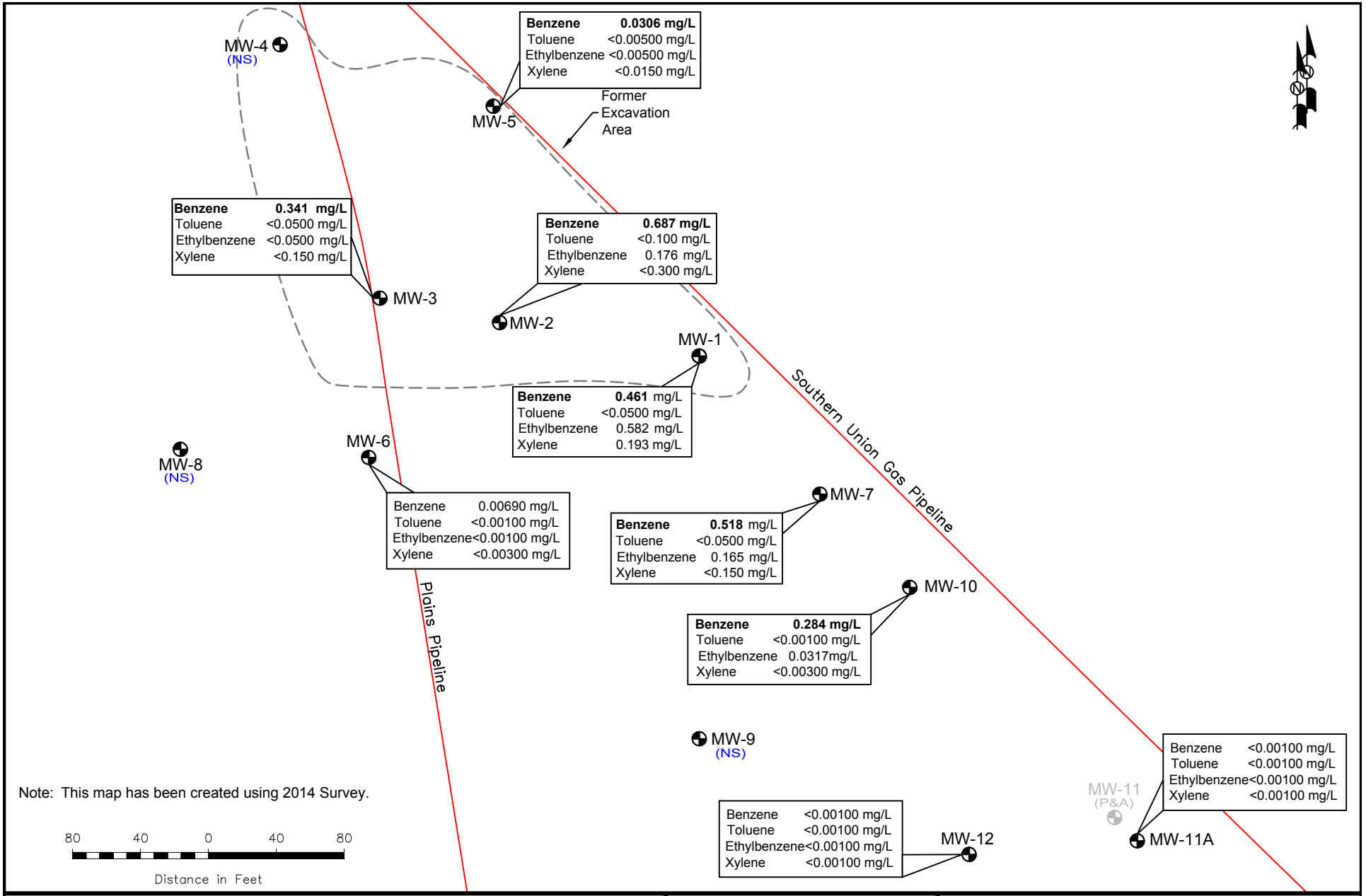

LEGEND:

- Monitor Well Location
- Pipeline
- Inferred PSH Extent
- (NS) Not Sampled
- 0.18' PSH Thickness (in feet)
- <0.001 Constituent Concentration (mg/L)
- (P&A) Plugged and Abandoned

Figure 4A
Groundwater Concentration and Inferred PSH Extent Map
(2/24/2014)
Plains Marketing, L.P.
34 Junction to Lea Station
Lea County, NM
NMOCD Reference #1R-0386

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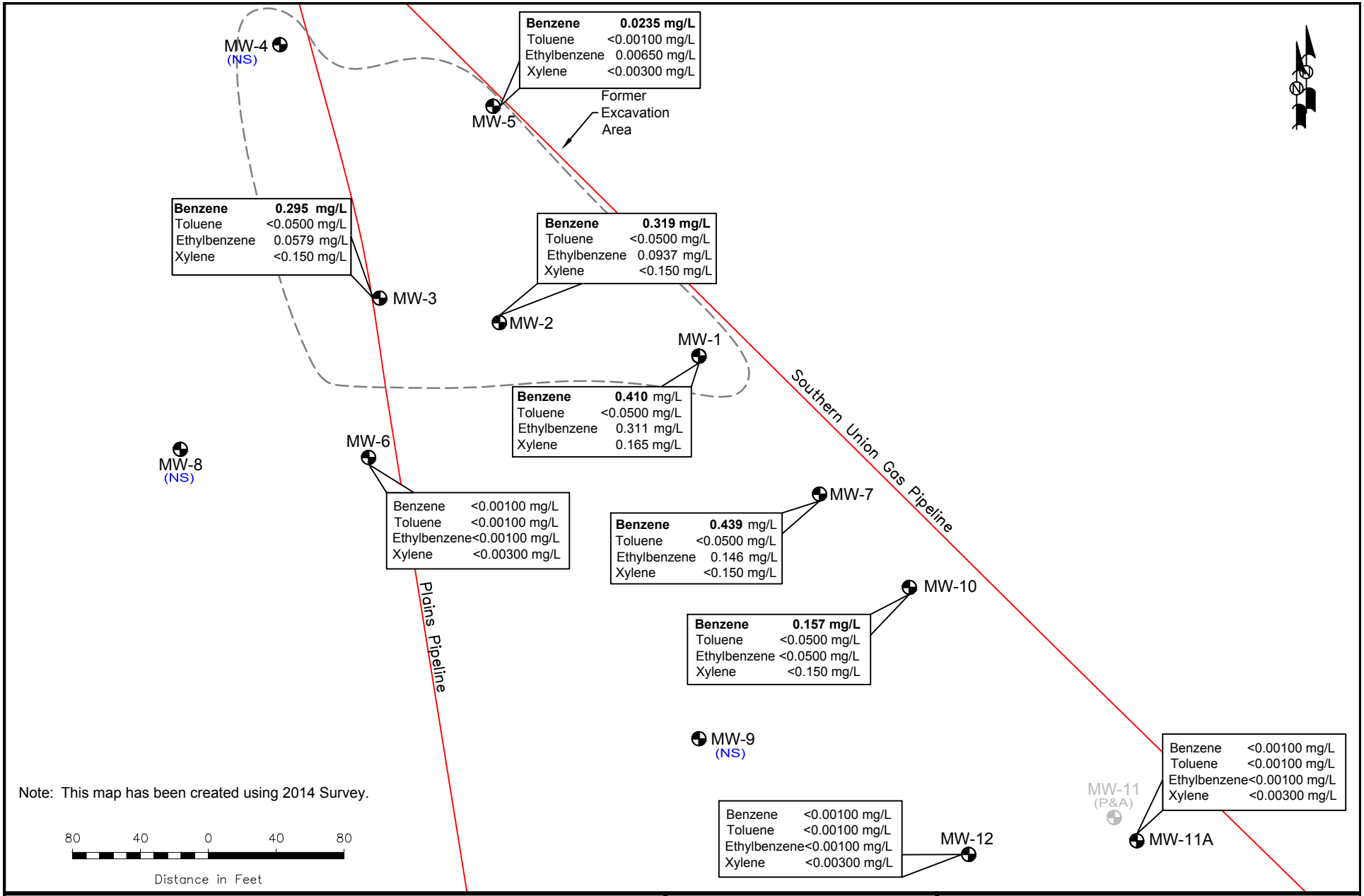

LEGEND:

- Monitor Well Location
- Pipeline
- Inferred PSH Extent
- (NS) Not Sampled
- 0.18' PSH Thickness (in feet)
- <0.001 Constituent Concentration (mg/L)
- (P&A) Plugged and Abandoned

Figure 4B
Groundwater Concentration and Inferred PSH Extent Map
(5/7/2014)
Plains Marketing, L.P.
34 Junction to Lea Station
Lea County, NM
NMOCD Reference #1R-0386

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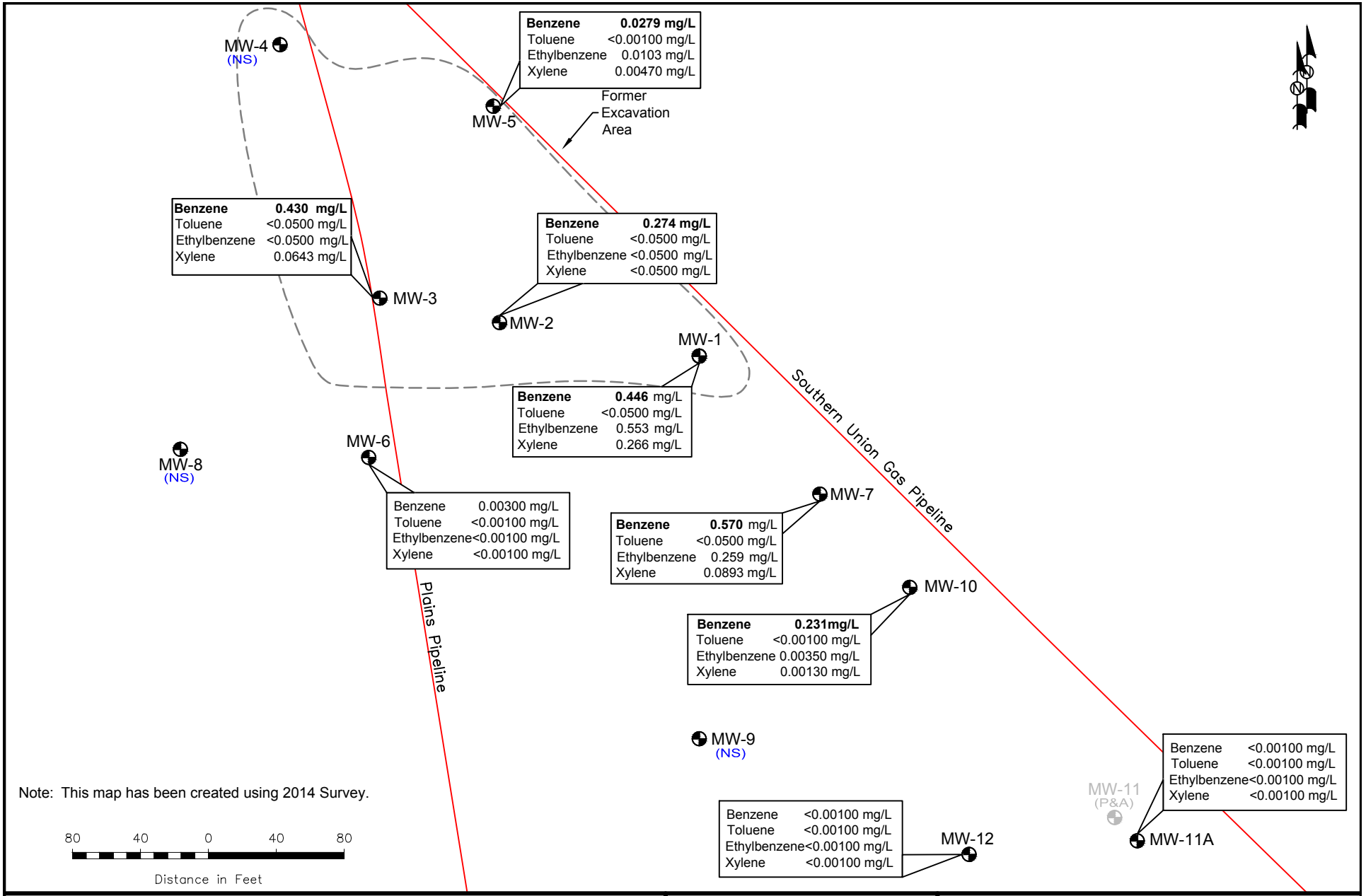


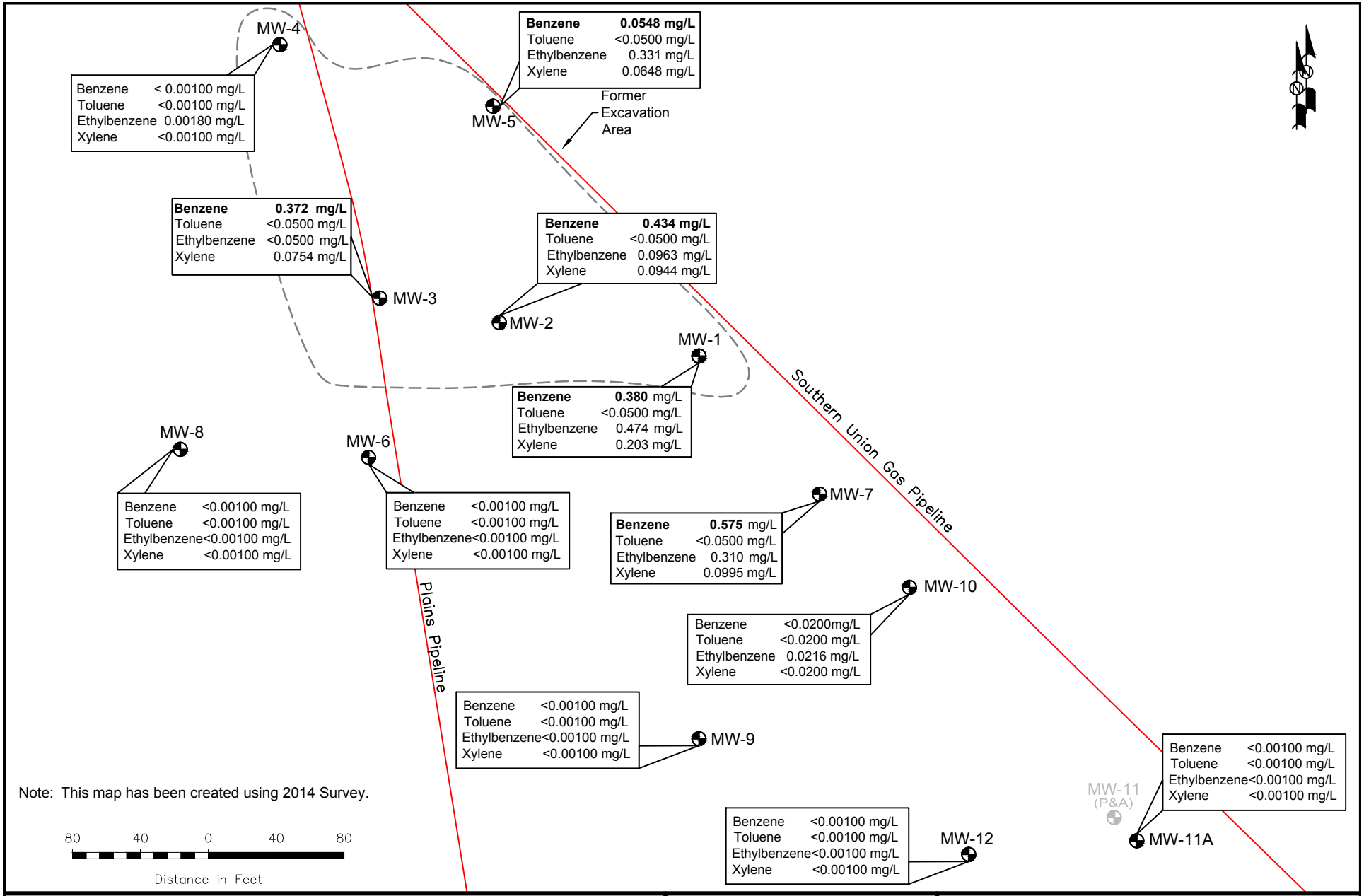
LEGEND:

- Monitor Well Location
- Pipeline
- Inferred PSH Extent
- (NS) Not Sampled
- 0.18' PSH Thickness (in feet)
- <0.001 Constituent Concentration (mg/L)
- (P&A) Plugged and Abandoned

Figure 4C
Groundwater Concentration and Inferred PSH Extent Map
(8/16/2014)
Plains Marketing, L.P.
34 Junction to Lea Station
Lea County, NM
NMOCD Reference #1R-0386

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

September 5, 2014	Scale: 1" = 60'	CAD By: TA	Checked By: CS
Lat. N 32° 33' 18.8" Long. W 103° 15' 39.7"	NW1/4 SW1/4 Sec 21 T20S R37E		



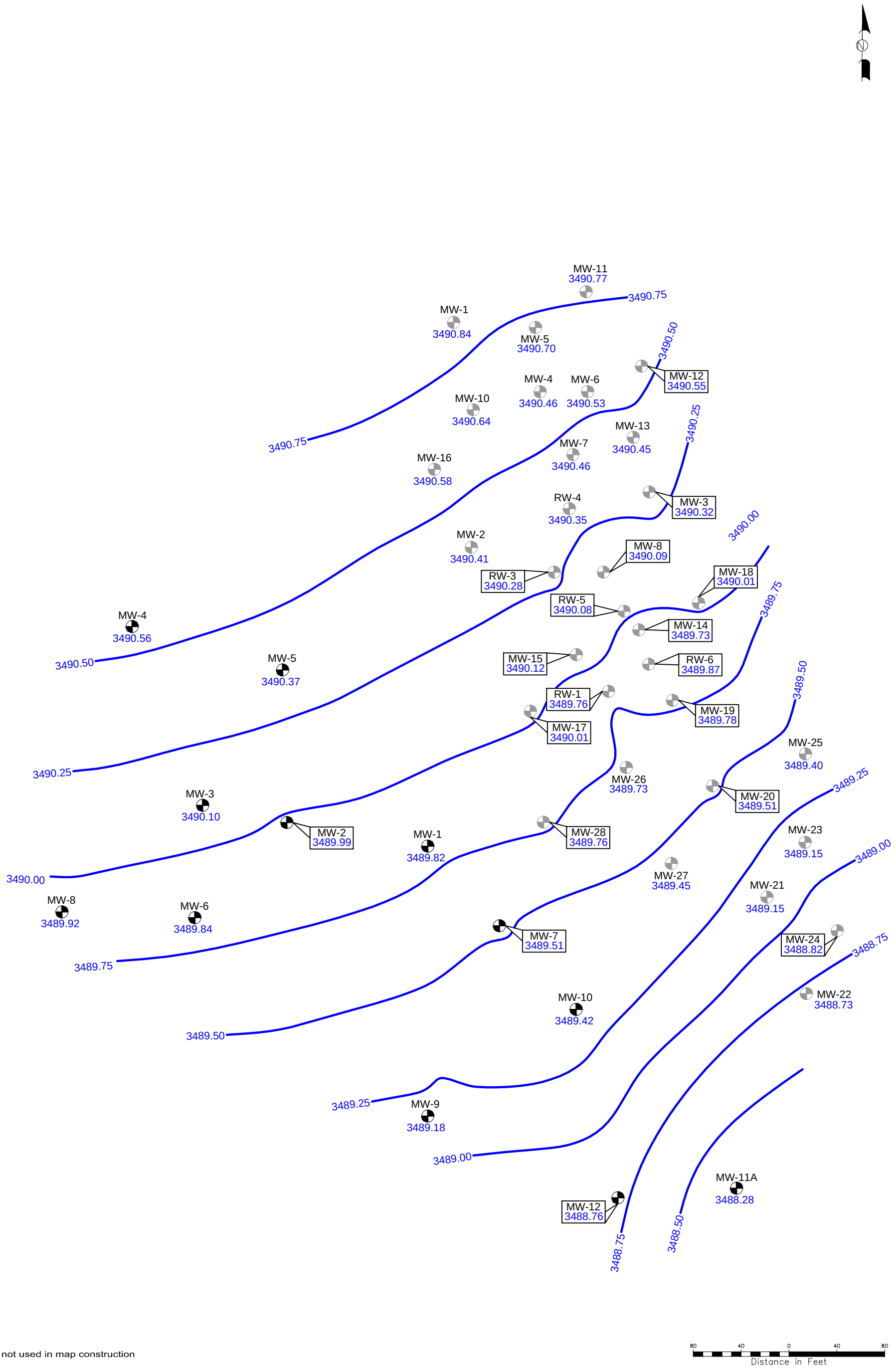
LEGEND:

- Monitor Well Location
- Pipeline
- Inferred PSH Extent
- (NS) Not Sampled
- 0.18' PSH Thickness (in feet)
- <0.001 Constituent Concentration (mg/L)
- (P&A) Plugged and Abandoned

Figure 4D
Groundwater Concentration and Inferred PSH Extent Map
(11/11/2014)
Plains Marketing, L.P.
34 Junction to Lea Station
Lea County, NM
NMOCD Reference #1R-0386

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

December 15, 2014	Scale: 1" = 60'	CAD By: TA	Checked By: CS
Lat. N 32° 33' 18.8" Long. W 103° 15' 39.7"	NW1/4 SW1/4 Sec 21 T20S R37E		



Note:
MW-4 not used in map construction

80 40 0 40 80
Distance in Feet

LEGEND:

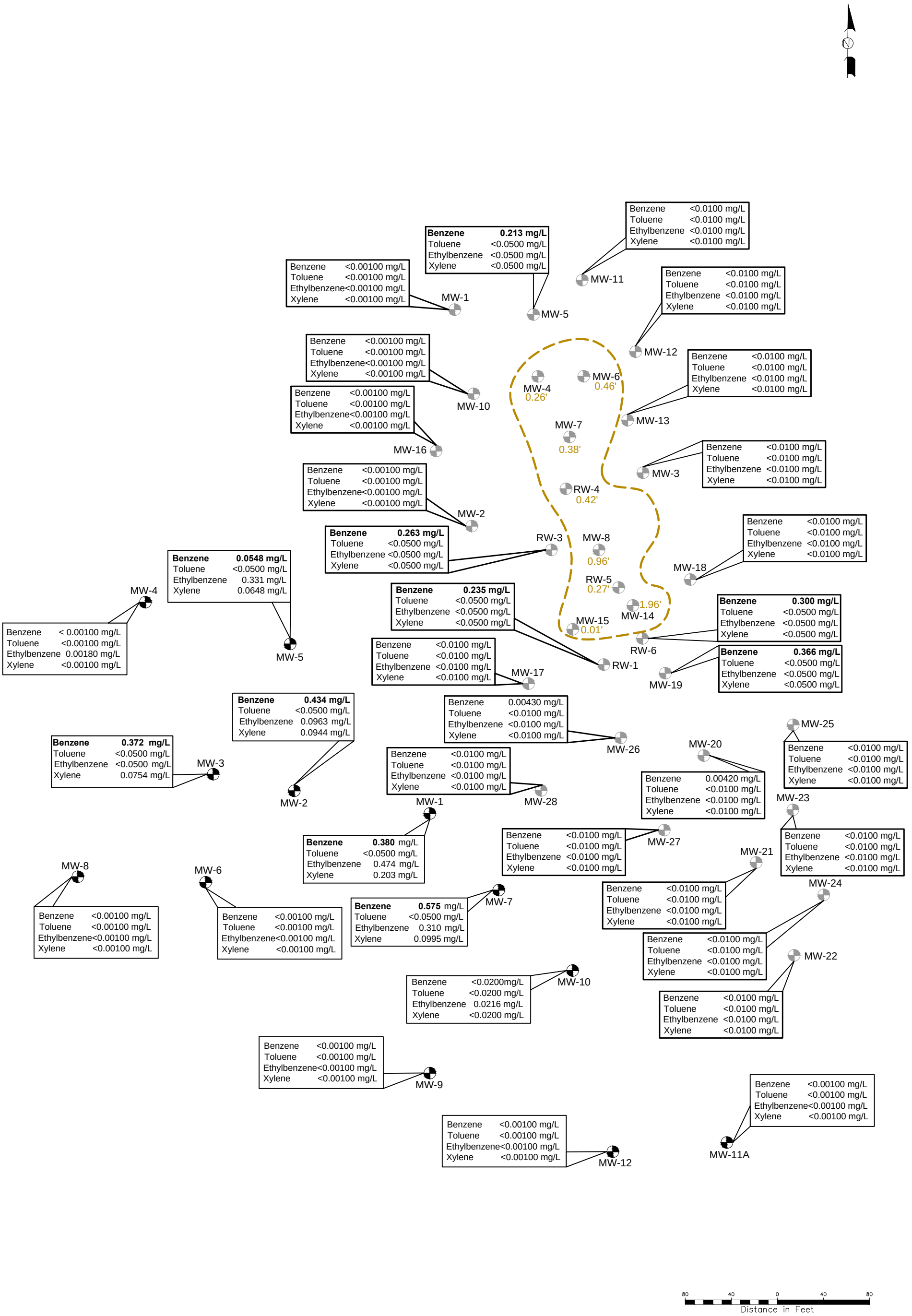
- 34 J to Lea Monitor Well Location
- TNM 97-17 Monitor Well Location
- Groundwater Contour Lines
- (3921.20) Groundwater Elevation in Feet

34 J to Lea NMOCD Reference # 1R-0386
TNM 97-17 NMOCD Reference # AP-017

Figure 5
Combined Inferred Groundwater Gradient Map
(11/11/2014 - 11/19/2014)
Plains Marketing, L.P.
34 Junction to Lea / TNM 97-17
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

November 25, 2014	Scale: 1" = 80'	CAD By: TA	Checked By: CS
Lat. N 32° 33' 24.0" Long. W 103° 15' 37.3"	NW1/4 SW1/4 Sec 21 T20S R37E		



LEGEND:

- 34 J to Lea Monitor Well Location
- TNM 97-17 Monitor Well Location
- Groundwater Contour Lines
- (3921.20) Groundwater Elevation in Feet

34 J to Lea NMOCD Reference # 1R-0386
TNM 97-17 NMOCD Reference # AP-017

Figure 6
Unitized Concentration Map
(11/11/2014 - 11/19/2014)
Plains Marketing, L.P.
34 Junction to Lea / TNM 97-17
Lea County, NM

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

December 18, 2014	Scale: 1" = 80'	CAD By: TA	Checked By: CS
Lat. N 32° 33' 24.0" Long. W 103° 15' 37.3"	NW1/4 SW1/4 Sec 21 T20S R37E		

Tables

TABLE 1

2014 GROUNDWATER ELEVATION DATA

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286
NMOCD Reference Number 1R-0386

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 1	01/03/14	3,508.17	-	19.33	0.00	3,488.84
MW - 1	01/06/14	3,508.17	-	19.42	0.00	3,488.75
MW - 1	01/13/14	3,508.17	-	19.41	0.00	3,488.76
MW - 1	01/21/14	3,508.17	-	19.37	0.00	3,488.80
MW - 1	01/27/14	3,508.17	-	19.37	0.00	3,488.80
MW - 1	02/05/14	3,508.39	-	19.29	0.00	3,489.10
MW - 1	02/10/14	3,508.39	-	19.33	0.00	3,489.06
MW - 1	*02/24/14*	3,508.39	-	19.24	0.00	3,489.15
MW - 1	03/17/14	3,508.39	-	19.20	0.00	3,489.19
MW - 1	03/25/14	3,508.39	-	19.24	0.00	3,489.15
MW - 1	04/02/14	3,508.39	-	19.21	0.00	3,489.18
MW - 1	04/16/14	3,508.39	-	19.15	0.00	3,489.24
MW - 1	04/22/14	3,508.39	-	19.15	0.00	3,489.24
MW - 1	04/29/14	3,508.39	-	19.14	0.00	3,489.25
MW - 1	05/06/14	3,508.39	-	19.13	0.00	3,489.26
MW - 1	*05/07/14*	3,508.39	-	19.15	0.00	3,489.24
MW - 1	05/13/14	3,508.39	-	19.16	0.00	3,489.23
MW - 1	05/21/14	3,508.39	-	19.17	0.00	3,489.22
MW - 1	05/29/14	3,508.39	-	19.19	0.00	3,489.20
MW - 1	06/05/14	3,508.39	-	19.25	0.00	3,489.14
MW - 1	06/11/14	3,508.39	-	19.33	0.00	3,489.06
MW - 1	06/24/14	3,508.39	-	19.50	0.00	3,488.89
MW - 1	07/01/14	3,508.39	-	19.58	0.00	3,488.81
MW - 1	07/08/14	3,508.39	-	19.64	0.00	3,488.75
MW - 1	07/15/14	3,508.39	-	19.66	0.00	3,488.73
MW - 1	07/22/14	3,508.39	-	19.72	0.00	3,488.67
MW - 1	07/23/14	3,508.39	-	19.72	0.00	3,488.67
MW - 1	07/31/14	3,508.39	-	19.72	0.00	3,488.67
MW - 1	08/07/14	3,508.39	-	19.73	0.00	3,488.66
MW - 1	08/13/14	3,508.39	-	19.74	0.00	3,488.65
MW - 1	*08/16/14*	3,508.39	-	19.76	0.00	3,488.63
MW - 1	08/20/14	3,508.39	-	19.76	0.00	3,488.63
MW - 1	08/27/14	3,508.39	-	19.78	0.00	3,488.61
MW - 1	09/24/14	3,508.39	-	18.98	0.00	3,489.41
MW - 1	10/07/14	3,508.39	-	18.63	0.00	3,489.76
MW - 1	10/07/14	3,508.39	-	18.58	0.00	3,489.81
MW - 1	10/14/14	3,508.39	-	18.56	0.00	3,489.83
MW - 1	10/20/14	3,508.39	-	18.56	0.00	3,489.83
MW - 1	10/27/14	3,508.39	-	18.56	0.00	3,489.83

TABLE 1

2014 GROUNDWATER ELEVATION DATA

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286
NMOCD Reference Number 1R-0386

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 1	10/28/14	3,508.39	-	19.84	0.00	3,488.55
MW - 1	*11/11/14*	3,508.39	-	18.57	0.00	3,489.82
MW - 1	11/19/14	3,508.39	-	18.51	0.00	3,489.88
MW - 1	12/04/14	3,508.39	-	18.56	0.00	3,489.83
MW - 1	12/08/14	3,508.39	-	18.59	0.00	3,489.80
MW - 1	12/15/14	3,508.39	-	18.62	0.00	3,489.77
MW - 1	12/22/14	3,508.39	-	18.58	0.00	3,489.81
MW - 1	12/29/14	3,508.39	-	18.62	0.00	3,489.77
MW - 2	01/03/14	3,501.45	-	20.59	0.00	3,480.86
MW - 2	01/06/14	3,501.45	-	21.71	0.00	3,479.74
MW - 2	01/13/14	3,501.45	-	19.66	0.00	3,481.79
MW - 2	01/21/14	3,501.45	-	20.65	0.00	3,480.80
MW - 2	01/27/14	3,501.45	-	20.65	0.00	3,480.80
MW - 2	02/05/14	3,509.87	-	20.58	0.00	3,489.29
MW - 2	02/10/14	3,509.87	-	20.56	0.00	3,489.31
MW - 2	*02/24/14*	3,509.87	-	20.51	0.00	3,489.36
MW - 2	03/17/14	3,509.87	-	20.48	0.00	3,489.39
MW - 2	03/25/14	3,509.87	-	20.48	0.00	3,489.39
MW - 2	04/02/14	3,509.87	-	20.45	0.00	3,489.42
MW - 2	04/16/14	3,509.87	-	20.40	0.00	3,489.47
MW - 2	04/22/14	3,509.87	-	20.39	0.00	3,489.48
MW - 2	04/29/14	3,509.87	-	20.43	0.00	3,489.44
MW - 2	05/06/14	3,509.87	-	20.37	0.00	3,489.50
MW - 2	*05/07/14*	3,509.87	-	20.39	0.00	3,489.48
MW - 2	05/13/14	3,509.87	-	20.42	0.00	3,489.45
MW - 2	05/21/14	3,509.87	-	20.41	0.00	3,489.46
MW - 2	05/29/14	3,509.87	-	20.45	0.00	3,489.42
MW - 2	06/05/14	3,509.87	-	20.52	0.00	3,489.35
MW - 2	06/11/14	3,509.87	-	20.59	0.00	3,489.28
MW - 2	06/16/14	3,509.87	-	20.66	0.00	3,489.21
MW - 2	06/24/14	3,509.87	-	20.76	0.00	3,489.11
MW - 2	07/01/14	3,509.87	-	20.86	0.00	3,489.01
MW - 2	07/08/14	3,509.87	-	20.88	0.00	3,488.99
MW - 2	07/15/14	3,509.87	-	20.93	0.00	3,488.94
MW - 2	07/22/14	3,509.87	-	20.98	0.00	3,488.89
MW - 2	07/23/14	3,509.87	-	20.98	0.00	3,488.89
MW - 2	07/31/14	3,509.87	-	20.99	0.00	3,488.88
MW - 2	08/07/14	3,509.87	-	21.03	0.00	3,488.84

TABLE 1

2014 GROUNDWATER ELEVATION DATA

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286
NMOCD Reference Number 1R-0386

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 2	08/13/14	3,509.87	-	21.02	0.00	3,488.85
MW - 2	*08/16/14*	3,509.87	-	21.50	0.00	3,488.37
MW - 2	08/20/14	3,509.87	-	21.06	0.00	3,488.81
MW - 2	08/27/14	3,509.87	-	21.09	0.00	3,488.78
MW - 2	09/24/14	3,509.87	-	20.23	0.00	3,489.64
MW - 2	10/01/14	3,509.87	-	19.95	0.00	3,489.92
MW - 2	10/07/14	3,509.87	-	19.89	0.00	3,489.98
MW - 2	10/14/14	3,509.87	-	19.82	0.00	3,490.05
MW - 2	10/20/14	3,509.87	-	19.85	0.00	3,490.02
MW - 2	10/27/14	3,509.87	-	19.85	0.00	3,490.02
MW - 2	10/28/14	3,509.87	-	20.21	0.00	3,489.66
MW - 2	*11/11/14*	3,509.87	-	19.88	0.00	3,489.99
MW - 2	11/19/14	3,509.87	-	19.79	0.00	3,490.08
MW - 2	12/04/14	3,509.87	-	19.85	0.00	3,490.02
MW - 2	12/08/14	3,509.87	-	19.87	0.00	3,490.00
MW - 2	12/15/14	3,509.87	-	19.90	0.00	3,489.97
MW - 2	12/22/14	3,509.87	-	19.86	0.00	3,490.01
MW - 2	12/29/14	3,509.87	-	19.87	0.00	3,490.00
MW - 2	01/05/14	3,509.87	-	19.89	0.00	3,489.98
MW - 3	01/03/14	3,495.97	-	21.04	0.00	3,474.93
MW - 3	01/06/14	3,495.97	-	21.13	0.00	3,474.84
MW - 3	01/13/14	3,495.97	-	21.09	0.00	3,474.88
MW - 3	01/21/14	3,495.97	-	21.08	0.00	3,474.89
MW - 3	01/27/14	3,495.97	-	21.10	0.00	3,474.87
MW - 3	02/05/14	3,510.51	-	21.01	0.00	3,489.50
MW - 3	02/10/14	3,510.51	-	20.97	0.00	3,489.54
MW - 3	*02/24/14*	3,510.51	-	20.93	0.00	3,489.58
MW - 3	03/17/14	3,510.51	-	20.90	0.00	3,489.61
MW - 3	03/25/14	3,510.51	-	20.92	0.00	3,489.59
MW - 3	04/02/14	3,510.51	-	20.91	0.00	3,489.60
MW - 3	04/16/14	3,510.51	-	20.83	0.00	3,489.68
MW - 3	04/22/14	3,510.51	-	20.83	0.00	3,489.68
MW - 3	04/29/14	3,510.51	-	20.85	0.00	3,489.66
MW - 3	05/06/14	3,510.51	-	20.80	0.00	3,489.71
MW - 3	*05/07/14*	3,510.51	-	20.85	0.00	3,489.66
MW - 3	05/13/14	3,510.51	-	20.84	0.00	3,489.67
MW - 3	05/21/14	3,510.51	-	20.85	0.00	3,489.66
MW - 3	05/29/14	3,510.51	-	20.90	0.00	3,489.61

TABLE 1

2014 GROUNDWATER ELEVATION DATA

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286
NMOCD Reference Number 1R-0386

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 3	06/05/14	3,510.51	-	20.96	0.00	3,489.55
MW - 3	06/11/14	3,510.51	-	21.04	0.00	3,489.47
MW - 3	06/16/14	3,510.51	-	21.12	0.00	3,489.39
MW - 3	06/24/14	3,510.51	-	21.19	0.00	3,489.32
MW - 3	07/01/14	3,510.51	-	21.29	0.00	3,489.22
MW - 3	07/08/14	3,510.51	-	21.34	0.00	3,489.17
MW - 3	07/15/14	3,510.51	-	20.40	0.00	3,490.11
MW - 3	07/22/14	3,510.51	-	21.47	0.00	3,489.04
MW - 3	07/23/14	3,510.51	-	21.47	0.00	3,489.04
MW - 3	07/31/14	3,510.51	-	21.55	0.00	3,488.96
MW - 3	08/07/14	3,510.51	-	21.48	0.00	3,489.03
MW - 3	08/13/14	3,510.51	-	21.50	0.00	3,489.01
MW - 3	*08/16/14*	3,510.51	-	21.51	0.00	3,489.00
MW - 3	08/20/14	3,510.51	-	21.53	0.00	3,488.98
MW - 3	08/27/14	3,510.51	-	21.56	0.00	3,488.95
MW - 3	09/24/14	3,510.51	-	20.92	0.00	3,489.59
MW - 3	10/01/14	3,510.51	-	20.54	0.00	3,489.97
MW - 3	10/07/14	3,510.51	-	20.45	0.00	3,490.06
MW - 3	10/14/14	3,510.51	-	20.38	0.00	3,490.13
MW - 3	10/20/14	3,510.51	-	20.38	0.00	3,490.13
MW - 3	10/27/14	3,510.51	-	20.37	0.00	3,490.14
MW - 3	10/28/14	3,510.51	-	20.71	0.00	3,489.80
MW - 3	*11/11/14*	3,510.51	-	20.41	0.00	3,490.10
MW - 3	11/19/14	3,510.51	-	20.31	0.00	3,490.20
MW - 3	12/04/14	3,510.51	-	20.37	0.00	3,490.14
MW - 3	12/08/14	3,510.51	-	20.39	0.00	3,490.12
MW - 3	12/15/14	3,510.51	-	20.40	0.00	3,490.11
MW - 3	12/22/14	3,510.51	-	20.37	0.00	3,490.14
MW - 3	12/29/14	3,510.51	-	20.37	0.00	3,490.14
MW - 4	*02/24/14*	3,510.09	-	19.99	0.00	3,490.10
MW - 4	*05/07/14*	3,510.09	-	19.85	0.00	3,490.24
MW - 4	07/22/14	3,510.09	-	20.57	0.00	3,489.52
MW - 4	*08/16/14*	3,510.09	-	20.67	0.00	3,489.42
MW - 4	10/27/14	3,510.09	-	19.53	0.00	3,490.56
MW - 4	*11/11/14*	3,510.09	-	19.53	0.00	3,490.56
MW - 5	01/03/14	3,508.74	-	19.95	0.00	3,488.79
MW - 5	01/06/14	3,508.74	-	20.02	0.00	3,488.72

TABLE 1

2014 GROUNDWATER ELEVATION DATA

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286
NMOCD Reference Number 1R-0386

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 5	01/13/14	3,508.74	-	19.98	0.00	3,488.76
MW - 5	01/21/14	3,508.74	-	19.97	0.00	3,488.77
MW - 5	01/27/14	3,508.74	-	19.98	0.00	3,488.76
MW - 5	02/05/14	3,509.64	-	19.92	0.00	3,489.72
MW - 5	02/10/14	3,509.64	-	20.95	0.00	3,488.69
MW - 5	*02/24/14*	3,509.64	-	19.87	0.00	3,489.77
MW - 5	03/17/14	3,509.64	-	19.80	0.00	3,489.84
MW - 5	03/25/14	3,509.64	-	19.82	0.00	3,489.82
MW - 5	04/02/14	3,509.64	-	19.78	0.00	3,489.86
MW - 5	04/16/14	3,509.64	-	19.73	0.00	3,489.91
MW - 5	04/22/14	3,509.64	-	19.73	0.00	3,489.91
MW - 5	04/29/14	3,509.64	-	19.74	0.00	3,489.90
MW - 5	05/06/14	3,509.64	-	19.71	0.00	3,489.93
MW - 5	*05/07/14*	3,509.64	-	19.73	0.00	3,489.91
MW - 5	05/13/14	3,509.64	-	19.74	0.00	3,489.90
MW - 5	05/21/14	3,509.64	-	19.77	0.00	3,489.87
MW - 5	05/29/14	3,509.64	-	19.80	0.00	3,489.84
MW - 5	06/05/14	3,509.64	-	19.88	0.00	3,489.76
MW - 5	06/11/14	3,509.64	-	19.97	0.00	3,489.67
MW - 5	06/16/14	3,509.64	-	20.05	0.00	3,489.59
MW - 5	06/24/14	3,509.64	-	20.14	0.00	3,489.50
MW - 5	07/01/14	3,509.64	-	20.22	0.00	3,489.42
MW - 5	07/08/14	3,509.64	-	20.26	0.00	3,489.38
MW - 5	07/15/14	3,509.64	-	20.32	0.00	3,489.32
MW - 5	07/22/14	3,509.64	-	20.39	0.00	3,489.25
MW - 5	07/23/14	3,509.64	-	20.39	0.00	3,489.25
MW - 5	07/31/14	3,509.64	-	20.42	0.00	3,489.22
MW - 5	08/07/14	3,509.64	-	20.44	0.00	3,489.20
MW - 5	08/13/14	3,509.64	-	20.46	0.00	3,489.18
MW - 5	*08/16/14*	3,509.64	-	20.47	0.00	3,489.17
MW - 5	08/20/14	3,509.64	-	20.49	0.00	3,489.15
MW - 5	08/27/14	3,509.64	-	20.51	0.00	3,489.13
MW - 5	09/24/14	3,509.64	-	19.80	0.00	3,489.84
MW - 5	10/01/14	3,509.64	-	19.44	0.00	3,490.20
MW - 5	10/07/14	3,509.64	-	19.34	0.00	3,490.30
MW - 5	10/14/14	3,509.64	-	19.28	0.00	3,490.36
MW - 5	10/20/14	3,509.64	-	19.27	0.00	3,490.37
MW - 5	10/27/14	3,509.64	-	19.25	0.00	3,490.39
MW - 5	10/28/14	3,509.64	-	18.71	0.00	3,490.93

TABLE 1

2014 GROUNDWATER ELEVATION DATA

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286
NMOCD Reference Number 1R-0386

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 5	*11/11/14*	3,509.64	-	19.27	0.00	3,490.37
MW - 5	11/19/14	3,509.64	-	19.19	0.00	3,490.45
MW - 5	12/04/14	3,509.64	-	19.21	0.00	3,490.43
MW - 5	12/08/14	3,509.64	-	19.25	0.00	3,490.39
MW - 5	12/15/14	3,509.64	-	19.26	0.00	3,490.38
MW - 5	12/22/14	3,509.64	-	19.22	0.00	3,490.42
MW - 5	12/29/14	3,509.64	-	19.24	0.00	3,490.40
MW - 6	01/03/14	3,509.76	-	20.95	0.00	3,488.81
MW - 6	01/06/14	3,509.76	-	21.03	0.00	3,488.73
MW - 6	01/13/14	3,509.76	-	20.99	0.00	3,488.77
MW - 6	01/21/14	3,509.76	-	20.98	0.00	3,488.78
MW - 6	01/27/14	3,509.76	-	19.98	0.00	3,489.78
MW - 6	02/05/14	3,510.17	-	20.91	0.00	3,489.26
MW - 6	02/10/14	3,510.17	-	19.90	0.00	3,490.27
MW - 6	*02/24/14*	3,510.17	-	20.89	0.00	3,489.28
MW - 6	03/17/14	3,510.17	-	20.86	0.00	3,489.31
MW - 6	03/25/14	3,510.17	-	20.84	0.00	3,489.33
MW - 6	04/02/14	3,510.17	-	20.82	0.00	3,489.35
MW - 6	04/16/14	3,510.17	-	20.76	0.00	3,489.41
MW - 6	04/22/14	3,510.17	-	20.75	0.00	3,489.42
MW - 6	04/29/14	3,510.17	-	20.78	0.00	3,489.39
MW - 6	05/06/14	3,510.17	-	20.75	0.00	3,489.42
MW - 6	*05/07/14*	3,510.17	-	20.76	0.00	3,489.41
MW - 6	05/13/14	3,510.17	-	20.76	0.00	3,489.41
MW - 6	05/21/14	3,510.17	-	20.77	0.00	3,489.40
MW - 6	05/29/14	3,510.17	-	20.80	0.00	3,489.37
MW - 6	06/05/14	3,510.17	-	20.87	0.00	3,489.30
MW - 6	06/11/14	3,510.17	-	20.97	0.00	3,489.20
MW - 6	06/16/14	3,510.17	-	21.00	0.00	3,489.17
MW - 6	07/22/14	3,510.17	-	21.36	0.00	3,488.81
MW - 6	*08/16/14*	3,510.17	-	21.44	0.00	3,488.73
MW - 6	10/27/14	3,510.17	-	20.33	0.00	3,489.84
MW - 6	*11/11/14*	3,510.17	-	20.33	0.00	3,489.84
MW - 7	01/03/14	3,507.38	-	19.07	0.00	3,488.31
MW - 7	01/06/14	3,507.38	-	19.03	0.00	3,488.35
MW - 7	01/13/14	3,507.38	-	19.06	0.00	3,488.32
MW - 7	01/21/14	3,507.38	-	18.99	0.00	3,488.39

TABLE 1

2014 GROUNDWATER ELEVATION DATA

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286
NMOCD Reference Number 1R-0386

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 7	01/27/14	3,507.38	-	18.99	0.00	3,488.39
MW - 7	02/05/14	3,507.54	-	18.84	0.00	3,488.70
MW - 7	02/10/14	3,507.54	-	18.85	0.00	3,488.69
MW - 7	*02/24/14*	3,507.54	-	18.80	0.00	3,488.74
MW - 7	03/17/14	3,507.54	-	18.80	0.00	3,488.74
MW - 7	03/25/14	3,507.54	-	18.82	0.00	3,488.72
MW - 7	04/02/14	3,507.54	-	18.85	0.00	3,488.69
MW - 7	04/16/14	3,507.54	-	18.68	0.00	3,488.86
MW - 7	04/22/14	3,507.54	-	18.70	0.00	3,488.84
MW - 7	04/29/14	3,507.54	-	18.83	0.00	3,488.71
MW - 7	05/06/14	3,507.54	-	18.79	0.00	3,488.75
MW - 7	*05/07/14*	3,507.54	-	18.84	0.00	3,488.70
MW - 7	05/13/14	3,507.54	-	18.80	0.00	3,488.74
MW - 7	05/21/14	3,507.54	-	18.78	0.00	3,488.76
MW - 7	05/29/14	3,507.54	-	18.80	0.00	3,488.74
MW - 7	06/05/14	3,507.54	-	18.86	0.00	3,488.68
MW - 7	06/11/14	3,507.54	-	19.00	0.00	3,488.54
MW - 7	06/16/14	3,507.54	-	18.96	0.00	3,488.58
MW - 7	06/24/14	3,507.54	-	19.12	0.00	3,488.42
MW - 7	07/01/14	3,507.54	-	19.11	0.00	3,488.43
MW - 7	07/08/14	3,507.54	-	19.28	0.00	3,488.26
MW - 7	07/15/14	3,507.54	-	19.22	0.00	3,488.32
MW - 7	07/22/14	3,507.54	-	19.34	0.00	3,488.20
MW - 7	07/23/14	3,507.54	-	19.34	0.00	3,488.20
MW - 7	07/31/14	3,507.54	-	19.39	0.00	3,488.15
MW - 7	08/07/14	3,507.54	-	19.23	0.00	3,488.31
MW - 7	08/13/14	3,507.54	-	19.29	0.00	3,488.25
MW - 7	*08/16/14*	3,507.54	-	24.60	0.00	3,482.94
MW - 7	08/20/14	3,507.54	-	19.33	0.00	3,488.21
MW - 7	08/27/14	3,507.54	-	19.35	0.00	3,488.19
MW - 7	09/26/14	3,507.54	-	17.79	0.00	3,489.75
MW - 7	10/01/14	3,507.54	-	17.92	0.00	3,489.62
MW - 7	10/07/14	3,507.54	-	17.93	0.00	3,489.61
MW - 7	10/14/14	3,507.54	-	18.01	0.00	3,489.53
MW - 7	10/20/14	3,507.54	-	18.14	0.00	3,489.40
MW - 7	10/27/14	3,507.54	-	18.11	0.00	3,489.43
MW - 7	10/28/14	3,507.54	-	18.07	0.00	3,489.47
MW - 7	*11/11/14*	3,507.54	-	18.03	0.00	3,489.51
MW - 7	11/19/14	3,507.54	-	18.97	0.00	3,488.57

TABLE 1

2014 GROUNDWATER ELEVATION DATA

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286
NMOCD Reference Number 1R-0386

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 7	12/04/14	3,507.54	-	18.09	0.00	3,489.45
MW - 7	12/08/14	3,507.54	-	18.10	0.00	3,489.44
MW - 7	12/15/14	3,507.54	-	18.24	0.00	3,489.30
MW - 7	12/22/14	3,507.54	-	18.28	0.00	3,489.26
MW - 7	12/29/14	3,507.54	-	18.19	0.00	3,489.35
MW - 8	*02/24/14*	3,513.26	-	23.79	0.00	3,489.47
MW - 8	*05/07/14*	3,513.26	-	23.65	0.00	3,489.61
MW - 8	07/22/14	3,513.26	-	24.26	0.00	3,489.00
MW - 8	*08/16/14*	3,513.26	-	24.36	0.00	3,488.90
MW - 8	10/27/14	3,513.26	-	23.36	0.00	3,489.90
MW - 8	*11/11/14*	3,513.26	-	23.34	0.00	3,489.92
MW - 9	*02/24/14*	3,510.47	-	22.10	0.00	3,488.37
MW - 9	*05/07/14*	3,510.47	-	21.97	0.00	3,488.50
MW - 9	07/22/14	3,510.47	-	22.53	0.00	3,487.94
MW - 9	*08/16/14*	3,510.47	-	22.59	0.00	3,487.88
MW - 9	10/27/14	3,510.47	-	21.33	0.00	3,489.14
MW - 9	*11/11/14*	3,510.47	-	21.29	0.00	3,489.18
MW - 10	01/03/14	3,506.66	-	19.43	0.00	3,487.23
MW - 10	01/06/14	3,506.66	-	19.48	0.00	3,487.18
MW - 10	01/13/14	3,506.66	-	19.46	0.00	3,487.20
MW - 10	01/21/14	3,506.66	-	19.45	0.00	3,487.21
MW - 10	01/27/14	3,506.66	-	19.45	0.00	3,487.21
MW - 10	02/05/14	3,507.79	-	19.38	0.00	3,488.41
MW - 10	02/10/14	3,507.79	-	19.38	0.00	3,488.41
MW - 10	*02/24/14*	3,507.79	-	19.34	0.00	3,488.45
MW - 10	03/17/14	3,507.79	-	19.30	0.00	3,488.49
MW - 10	03/25/14	3,507.79	-	19.31	0.00	3,488.48
MW - 10	04/02/14	3,507.79	-	19.29	0.00	3,488.50
MW - 10	04/16/14	3,507.79	-	19.23	0.00	3,488.56
MW - 10	04/22/14	3,507.79	-	19.23	0.00	3,488.56
MW - 10	04/29/14	3,507.79	-	19.24	0.00	3,488.55
MW - 10	05/06/14	3,507.79	-	19.22	0.00	3,488.57
MW - 10	*05/07/14*	3,507.79	-	19.22	0.00	3,488.57
MW - 10	05/13/14	3,507.79	-	19.24	0.00	3,488.55
MW - 10	05/29/14	3,507.79	-	19.29	0.00	3,488.50
MW - 10	06/05/14	3,507.79	-	19.36	0.00	3,488.43

TABLE 1

2014 GROUNDWATER ELEVATION DATA

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286
NMOCD Reference Number 1R-0386

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 10	06/11/14	3,507.79	-	19.50	0.00	3,488.29
MW - 10	06/16/14	3,507.79	-	19.51	0.00	3,488.28
MW - 10	06/24/14	3,507.79	-	19.62	0.00	3,488.17
MW - 10	07/01/14	3,507.79	-	19.69	0.00	3,488.10
MW - 10	07/08/14	3,507.79	-	19.68	0.00	3,488.11
MW - 10	07/15/14	3,507.79	-	19.77	0.00	3,488.02
MW - 10	07/22/14	3,507.79	-	19.80	0.00	3,487.99
MW - 10	07/23/14	3,507.79	-	19.80	0.00	3,487.99
MW - 10	07/31/14	3,507.79	-	19.86	0.00	3,487.93
MW - 10	08/07/14	3,507.79	-	19.85	0.00	3,487.94
MW - 10	08/13/14	3,507.79	-	19.87	0.00	3,487.92
MW - 10	*08/16/14*	3,507.79	-	19.86	0.00	3,487.93
MW - 10	08/20/14	3,507.79	-	19.90	0.00	3,487.89
MW - 10	08/27/14	3,507.79	-	19.93	0.00	3,487.86
MW - 10	09/24/14	3,507.79	-	17.19	0.00	3,490.60
MW - 10	10/01/14	3,507.79	-	17.77	0.00	3,490.02
MW - 10	10/07/14	3,507.79	-	18.10	0.00	3,489.69
MW - 10	10/14/14	3,507.79	-	18.31	0.00	3,489.48
MW - 10	10/20/14	3,507.79	-	18.42	0.00	3,489.37
MW - 10	10/27/14	3,507.79	-	18.50	0.00	3,489.29
MW - 10	10/28/04	3,507.79	-	18.55	0.00	3,489.24
MW - 10	*11/11/14*	3,507.79	-	18.37	0.00	3,489.42
MW - 10	11/19/14	3,507.79	-	18.43	0.00	3,489.36
MW - 10	12/04/14	3,507.79	-	18.57	0.00	3,489.22
MW - 10	12/08/14	3,507.79	-	18.60	0.00	3,489.19
MW - 10	12/15/14	3,507.79	-	18.63	0.00	3,489.16
MW - 10	12/22/14	3,507.79	-	18.62	0.00	3,489.17
MW - 10	12/29/14	3,507.79	-	18.64	0.00	3,489.15
MW - 11	02/04/14	Plugged and Abandoned				
MW - 11A	*02/24/14*	3,509.52	-	21.93	0.00	3,487.59
MW - 11A	*05/07/14*	3,509.52	-	21.83	0.00	3,487.69
MW - 11A	07/22/14	3,509.52	-	22.50	0.00	3,487.02
MW - 11A	*08/16/14*	3,509.52	-	22.56	0.00	3,486.96
MW - 11A	10/27/14	3,509.52	-	21.25	0.00	3,488.27
MW - 11A	*11/11/14*	3,509.52	-	21.24	0.00	3,488.28
MW - 12	*02/24/14*	3,508.49	-	20.63	0.00	3,487.86

TABLE 1

2014 GROUNDWATER ELEVATION DATA

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286
NMOCD Reference Number 1R-0386

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 12	*05/07/14*	3,508.49	-	20.51	0.00	3,487.98
MW - 12	07/22/14	3,508.49	-	21.12	0.00	3,487.37
MW - 12	*08/16/14*	3,508.49	-	21.20	0.00	3,487.29
MW - 12	10/27/14	3,508.49	-	19.80	0.00	3,488.69
MW - 12	*11/11/14*	3,508.49	-	19.73	0.00	3,488.76

TABLE 2

2014 CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Guideline		**0.01 (mg/L)**	**0.75 (mg/L)**	**0.75 (mg/L)**	**0.62 (mg/L)**	
MW - 1	02/24/14	**0.461**	<0.0500	0.582	0.193	
MW - 1	05/07/14	**0.410**	<0.0500	0.311	0.165	
MW - 1	08/16/14	**0.446**	<0.0500	0.553	0.266	
MW - 1	11/11/14	**0.380**	<0.0500	0.474	0.203	
MW - 2	02/24/14	**0.687**	<0.100	0.176	<0.300	
MW - 2	05/07/14	**0.319**	<0.0500	0.0937	<0.150	
MW - 2	08/16/14	**0.274**	<0.0500	<0.0500	<0.0500	
MW - 2	11/11/14	**0.434**	<0.0500	0.0963	0.0944	
MW - 3	02/24/14	**0.341**	<0.0500	<0.0500	<0.150	
MW - 3	05/07/14	**0.295**	<0.0500	0.0579	<0.150	
MW - 3	08/16/14	**0.403**	<0.0500	<0.0500	0.0643	
MW - 3	11/11/14	**0.372**	<0.0500	<0.0500	0.0754	
MW - 4	02/24/14	Not Sampled on Current Sample Schedule				
MW - 4	05/07/14	Not Sampled on Current Sample Schedule				
MW - 4	08/16/14	Not Sampled on Current Sample Schedule				
MW - 4	11/11/14	<0.00100	<0.00100	0.00180	<0.00100	
MW - 5	02/24/14	**0.0306**	<0.00500	<0.00500	<0.0150	
MW - 5	05/07/14	**0.0235**	<0.00100	0.00650	<0.00300	
MW - 5	08/16/14	**0.0279**	<0.00100	0.0103	0.00470	
MW - 5	11/11/14	**0.0548**	<0.0500	0.331	0.0648	
MW - 6	02/24/14	0.00690	<0.00100	<0.00100	<0.00300	
MW - 6	05/07/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 6	08/16/14	0.00300	<0.00100	<0.00100	<0.00100	
MW - 6	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	02/24/14	**0.518**	<0.0500	0.165	<0.150	
MW - 7	05/07/14	**0.439**	<0.0500	0.146	<0.150	
MW - 7	08/16/14	**0.570**	<0.0500	0.259	0.0893	
MW - 7	11/11/14	**0.575**	<0.0500	0.310	0.0995	
MW - 8	02/24/14	Not Sampled on Current Sample Schedule				
MW - 8	05/07/14	Not Sampled on Current Sample Schedule				
MW - 8	08/16/14	Not Sampled on Current Sample Schedule				

TABLE 2

2014 CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Guideline		**0.01 (mg/L)**	**0.75 (mg/L)**	**0.75 (mg/L)**	**0.62 (mg/L)**	
MW - 8	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 9	02/24/14	Not Sampled on Current Sample Schedule				
MW - 9	05/07/14	Not Sampled on Current Sample Schedule				
MW - 9	08/16/14	Not Sampled on Current Sample Schedule				
MW - 9	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 10	02/24/14	**0.284**	<0.00100	0.0317	<0.00300	
MW - 10	05/07/14	**0.157**	<0.0500	<0.0500	<0.150	
MW - 10	08/16/14	**0.231**	<0.00100	0.0035	0.00130	
MW - 10	11/11/14	**<0.0200**	<0.0200	0.0216	<0.0200	
MW - 11	02/04/14	Plugged and Abandoned				
MW - 11-A	02/24/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11-A	05/07/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 11-A	08/16/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11-A	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 12	02/24/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 12	05/07/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 12	08/16/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 12	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	

TABLE 3

2014 CONCENTRATIONS OF PAH IN GROUNDWATER

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA STATION
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0386

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		---	---	0.001 mg/L	0.0001 mg/L	0.0007 mg/L	0.001 mg/L	---	0.001 mg/L	0.0002 mg/L	0.0003 mg/L	0.001 mg/L	0.001 mg/L	0.0004 mg/L	0.001 mg/L	0.001 mg/L	0.03 mg/L			---
MW-1	11/11/14	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	**0.044**	**0.0656**	**0.0142**	<0.000200
MW-2	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	11/11/14	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	1.0245	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	**0.00497**	**0.0512**	**<0.00020**	<0.00020
MW-4	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	11/11/14	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	**0.026**	**0.0549**	**0.00821**	<0.000200
MW-8	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-10	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	02/04/14	Plugged and Abandoned																		
MW-11A	11/11/14	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-12	11/11/14	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200

Historic Table 1

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 1	02/11/03	3,508.17	-	20.13	0.00	3,488.04
MW - 1	*02/27/03*	3,508.17	-	19.87	0.00	3,488.30
MW - 1	*05/05/04*	3,508.17	-	19.66	0.00	3,488.51
MW - 1	05/25/04	3,508.17	-	19.90	0.00	3,488.27
MW - 1	06/03/04	3,508.17	-	19.86	0.00	3,488.31
MW - 1	06/15/04	3,508.17	-	19.89	0.00	3,488.28
MW - 1	07/08/04	3,508.17	-	19.83	0.00	3,488.34
MW - 1	*07/26/04*	3,508.17	-	19.93	0.00	3,488.24
MW - 1	09/10/04	3,508.17	-	21.16	0.00	3,487.01
MW - 1	09/21/04	3,508.17	-	20.19	0.00	3,487.98
MW - 1	*10/04/04*	3,508.17	-	19.46	0.00	3,488.71
MW - 1	10/15/04	3,508.17	-	19.44	0.00	3,488.73
MW - 1	11/09/04	3,508.17	-	19.61	0.00	3,488.56
MW - 1	11/16/04	3,508.17	-	19.44	0.00	3,488.73
MW - 1	12/07/04	3,508.17	-	19.37	0.00	3,488.80
MW - 1	*12/17/04*	3,508.17	-	19.35	0.00	3,488.82
MW - 1	01/10/05	3,508.17	-	19.21	0.00	3,488.96
MW - 1	02/21/05	3,508.17	-	19.06	0.00	3,489.11
MW - 1	*03/29/05*	3,508.17	-	18.87	0.00	3,489.30
MW - 1	04/22/05	3,508.17	-	18.85	0.00	3,489.32
MW - 1	05/06/05	3,508.17	-	18.74	0.00	3,489.43
MW - 1	*05/11/05*	3,508.17	-	18.75	0.00	3,489.42
MW - 1	07/19/05	3,508.17	-	18.73	0.00	3,489.44
MW - 1	*08/16/05*	3,508.17	-	18.63	0.00	3,489.54
MW - 1	10/05/05	3,508.17	-	17.18	0.00	3,490.99
MW - 1	*11/15/05*	3,508.17	-	18.91	0.00	3,489.26
MW - 1	*02/15/06*	3,508.17	-	18.53	0.00	3,489.64
MW - 1	03/13/06	3,508.17	-	18.56	0.00	3,489.61
MW - 1	03/22/06	3,508.17	NOT SAMPLED			
MW - 1	*05/23/06*	3,508.17	-	18.58	0.00	3,489.59
MW - 1	07/20/06	3,508.17	-	18.89	0.00	3,489.28
MW - 1	*08/09/06*	3,508.17	-	18.76	0.00	3,489.41
MW - 1	10/18/06	3,508.17	-	18.34	0.00	3,489.83
MW - 1	*11/27/06*	3,508.17	-	18.33	0.00	3,489.84
MW - 1	12/11/06	3,508.17	-	18.35	0.00	3,489.82
MW - 1	01/04/07	3,508.17	-	18.57	0.00	3,489.60
MW - 1	02/16/07	3,508.17	-	18.81	0.00	3,489.36
MW - 1	*03/20/07*	3,508.17	-	18.14	0.00	3,490.03
MW - 1	*06/04/07*	3,508.17	-	18.02	0.00	3,490.15
MW - 1	08/22/07	3,508.17	-	18.66	0.00	3,489.51
MW - 1	*11/29/07*	3,508.17	-	18.38	0.00	3,489.79

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 1	02/26/08	3,508.17	-	18.30	0.00	3,489.87
MW - 1	05/22/08	3,508.17	-	18.28	0.00	3,489.89
MW - 1	*08/28/08*	3,508.17	-	18.93	0.00	3,489.24
MW - 1	*11/20/08*	3,508.17	-	18.55	0.00	3,489.62
MW - 1	*02/16/09*	3,508.17	-	18.42	0.00	3,489.75
MW - 1	*05/29/09*	3,508.17	-	18.73	0.00	3,489.44
MW - 1	*08/06/09*	3,508.17	-	18.82	0.00	3,489.35
MW - 1	*11/10/09*	3,508.17	-	19.19	0.00	3,488.98
MW - 1	*11/13/09*	3,508.17	-	19.20	0.00	3,488.97
MW - 1	01/05/10	3,508.17	-	19.10	0.00	3,489.07
MW - 1	*02/04/10*	3,508.17	-	19.02	0.00	3,489.15
MW - 1	*05/06/10*	3,508.17	-	19.03	0.00	3,489.14
MW - 1	*08/05/10*	3,508.17	-	18.18	0.00	3,489.99
MW - 1	*11/04/10*	3,508.17	-	18.20	0.00	3,489.97
MW - 1	*02/09/11*	3,508.17	-	18.18	0.00	3,489.99
MW - 1	*05/03/11*	3,508.17	-	18.18	0.00	3,489.99
MW - 1	05/19/11	3,508.17	-	18.61	0.00	3,489.56
MW - 1	05/25/11	3,508.17	-	18.69	0.00	3,489.48
MW - 1	06/06/11	3,508.17	-	18.76	0.00	3,489.41
MW - 1	06/13/11	3,508.17	-	18.68	0.00	3,489.49
MW - 1	06/27/11	3,508.17	-	18.69	0.00	3,489.48
MW - 1	07/07/11	3,508.17	-	18.76	0.00	3,489.41
MW - 1	07/14/11	3,508.17	-	18.81	0.00	3,489.36
MW - 1	07/25/11	3,508.17	-	18.68	0.00	3,489.49
MW - 1	*08/02/11*	3,508.17	-	18.16	0.00	3,490.01
MW - 1	08/03/11	3,508.17	-	19.12	0.00	3,489.05
MW - 1	08/18/11	3,508.17	-	19.30	0.00	3,488.87
MW - 1	08/24/11	3,508.17	-	19.38	0.00	3,488.79
MW - 1	08/29/11	3,508.17	-	19.20	0.00	3,488.97
MW - 1	09/07/11	3,508.17	-	19.30	0.00	3,488.87
MW - 1	09/14/11	3,508.17	-	19.30	0.00	3,488.87
MW - 1	10/26/11	3,508.17	-	19.30	0.00	3,488.87
MW - 1	*11/21/11*	3,508.17	-	19.24	0.00	3,488.93
MW - 1	11/28/11	3,508.17	-	19.27	0.00	3,488.90
MW - 1	12/12/11	3,508.17	-	19.29	0.00	3,488.88
MW - 1	01/10/12	3,508.17	-	19.17	0.00	3,489.00
MW - 1	01/17/12	3,508.17	-	19.17	0.00	3,489.00
MW - 1	01/25/12	3,508.17	-	19.15	0.00	3,489.02
MW - 1	02/01/12	3,508.17	-	19.13	0.00	3,489.04
MW - 1	*02/13/12*	3,508.17	-	19.08	0.00	3,489.09
MW - 1	03/07/12	3,508.17	-	18.98	0.00	3,489.19

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 1	03/19/12	3,508.17	-	18.97	0.00	3,489.20
MW - 1	03/28/12	3,508.17	-	18.94	0.00	3,489.23
MW - 1	04/04/12	3,508.17	-	18.90	0.00	3,489.27
MW - 1	04/11/12	3,508.17	-	18.88	0.00	3,489.29
MW - 1	04/18/12	3,508.17	-	18.86	0.00	3,489.31
MW - 1	04/25/12	3,508.17	-	18.86	0.00	3,489.31
MW - 1	05/03/12	3,508.17	-	18.91	0.00	3,489.26
MW - 1	05/09/12	3,508.17	-	18.97	0.00	3,489.20
MW - 1	05/16/12	3,508.17	-	18.96	0.00	3,489.21
MW - 1	*05/24/12*	3,508.17	-	18.90	0.00	3,489.27
MW - 1	06/01/12	3,508.17	-	18.90	0.00	3,489.27
MW - 1	06/06/12	3,508.17	-	18.89	0.00	3,489.28
MW - 1	06/14/12	3,508.17	-	18.96	0.00	3,489.21
MW - 1	06/20/12	3,508.17	-	18.95	0.00	3,489.22
MW - 1	06/26/12	3,508.17	-	18.99	0.00	3,489.18
MW - 1	07/11/12	3,508.17	-	19.19	0.00	3,488.98
MW - 1	07/18/12	3,508.17	-	19.25	0.00	3,488.92
MW - 1	08/02/12	3,508.17	-	19.34	0.00	3,488.83
MW - 1	*08/07/12*	3,508.17	-	19.33	0.00	3,488.84
MW - 1	08/17/12	3,508.17	-	19.39	0.00	3,488.78
MW - 1	09/06/12	3,508.17	-	19.46	0.00	3,488.71
MW - 1	09/11/12	3,508.17	-	19.50	0.00	3,488.67
MW - 1	09/25/12	3,508.17	-	19.57	0.00	3,488.60
MW - 1	10/02/12	3,508.17	-	19.58	0.00	3,488.59
MW - 1	10/09/12	3,508.17	-	19.52	0.00	3,488.65
MW - 1	10/17/12	3,508.17	-	19.46	0.00	3,488.71
MW - 1	10/24/12	3,508.17	-	19.44	0.00	3,488.73
MW - 1	11/01/12	3,508.17	-	19.40	0.00	3,488.77
MW - 1	11/14/12	3,508.17	-	19.34	0.00	3,488.83
MW - 1	*02/14/13*	3,508.17	-	19.16	0.00	3,489.01
MW - 1	03/19/13	3,508.17	-	19.16	0.00	3,489.01
MW - 1	04/04/13	3,508.17	-	19.13	0.00	3,489.04
MW - 1	04/09/13	3,508.17	-	19.12	0.00	3,489.05
MW - 1	04/17/13	3,508.17	-	19.10	0.00	3,489.07
MW - 1	04/23/13	3,508.17	-	19.09	0.00	3,489.08
MW - 1	04/30/13	3,508.17	-	19.04	0.00	3,489.13
MW - 1	05/08/13	3,508.17	-	19.02	0.00	3,489.15
MW - 1	*05/09/13*	3,508.17	-	19.06	0.00	3,489.11
MW - 1	05/14/13	3,508.17	-	19.07	0.00	3,489.10
MW - 1	05/22/13	3,508.17	-	19.06	0.00	3,489.11
MW - 1	05/29/13	3,508.17	-	19.05	0.00	3,489.12

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 1	06/05/13	3,508.17	-	19.11	0.00	3,489.06
MW - 1	06/11/13	3,508.17	-	19.14	0.00	3,489.03
MW - 1	06/19/13	3,508.17	-	19.17	0.00	3,489.00
MW - 1	06/28/13	3,508.17	-	19.29	0.00	3,488.88
MW - 1	07/01/13	3,508.17	-	19.31	0.00	3,488.86
MW - 1	07/11/13	3,508.17	-	19.43	0.00	3,488.74
MW - 1	07/23/13	3,508.17	-	19.44	0.00	3,488.73
MW - 1	07/30/13	3,508.17	-	19.43	0.00	3,488.74
MW - 1	*08/08/13*	3,508.17	-	19.33	0.00	3,488.84
MW - 1	08/14/13	3,508.17	-	19.42	0.00	3,488.75
MW - 1	08/22/13	3,508.17	-	19.46	0.00	3,488.71
MW - 1	08/27/13	3,508.17	-	19.51	0.00	3,488.66
MW - 1	09/05/13	3,508.17	-	19.55	0.00	3,488.62
MW - 1	09/10/13	3,508.17	-	19.61	0.00	3,488.56
MW - 1	09/17/13	3,508.17	-	19.64	0.00	3,488.53
MW - 1	09/24/13	3,508.17	-	19.63	0.00	3,488.54
MW - 1	10/07/13	3,508.17	-	19.71	0.00	3,488.46
MW - 1	10/23/13	3,508.17	-	19.62	0.00	3,488.55
MW - 1	10/30/13	3,508.17	-	19.55	0.00	3,488.62
MW - 1	11/06/13	3,508.17	-	19.53	0.00	3,488.64
MW - 1	11/14/13	3,508.17	-	19.47	0.00	3,488.70
MW - 1	*11/21/13*	3,508.17	-	19.45	0.00	3,488.72
MW - 1	12/12/13	3,508.17	-	19.39	0.00	3,488.78
MW - 1	12/19/13	3,508.17	-	19.36	0.00	3,488.81
MW - 1	12/24/13	3,508.17	-	19.36	0.00	3,488.81
MW - 1	01/03/14	3,508.17	-	19.33	0.00	3,488.84
MW - 1	01/06/14	3,508.17	-	19.42	0.00	3,488.75
MW - 1	01/13/14	3,508.17	-	19.41	0.00	3,488.76
MW - 1	01/21/14	3,508.17	-	19.37	0.00	3,488.80
MW - 1	01/27/14	3,508.17	-	19.37	0.00	3,488.80
MW - 1	02/05/14	3,508.39	-	19.29	0.00	3,489.10
MW - 1	02/10/14	3,508.39	-	19.33	0.00	3,489.06
MW - 1	*02/24/14*	3,508.39	-	19.24	0.00	3,489.15
MW - 1	03/17/14	3,508.39	-	19.20	0.00	3,489.19
MW - 1	03/25/14	3,508.39	-	19.24	0.00	3,489.15
MW - 1	04/02/14	3,508.39	-	19.21	0.00	3,489.18
MW - 1	04/16/14	3,508.39	-	19.15	0.00	3,489.24
MW - 1	04/22/14	3,508.39	-	19.15	0.00	3,489.24
MW - 1	04/29/14	3,508.39	-	19.14	0.00	3,489.25
MW - 1	05/06/14	3,508.39	-	19.13	0.00	3,489.26
MW - 1	*05/07/14*	3,508.39	-	19.15	0.00	3,489.24

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 1	05/13/14	3,508.39	-	19.16	0.00	3,489.23
MW - 1	05/21/14	3,508.39	-	19.17	0.00	3,489.22
MW - 1	05/29/14	3,508.39	-	19.19	0.00	3,489.20
MW - 1	06/05/14	3,508.39	-	19.25	0.00	3,489.14
MW - 1	06/11/14	3,508.39	-	19.33	0.00	3,489.06
MW - 1	06/24/14	3,508.39	-	19.50	0.00	3,488.89
MW - 1	07/01/14	3,508.39	-	19.58	0.00	3,488.81
MW - 1	07/08/14	3,508.39	-	19.64	0.00	3,488.75
MW - 1	07/15/14	3,508.39	-	19.66	0.00	3,488.73
MW - 1	07/22/14	3,508.39	-	19.72	0.00	3,488.67
MW - 1	07/23/14	3,508.39	-	19.72	0.00	3,488.67
MW - 1	07/31/14	3,508.39	-	19.72	0.00	3,488.67
MW - 1	08/07/14	3,508.39	-	19.73	0.00	3,488.66
MW - 1	08/13/14	3,508.39	-	19.74	0.00	3,488.65
MW - 1	*08/16/14*	3,508.39	-	19.76	0.00	3,488.63
MW - 1	08/20/14	3,508.39	-	19.76	0.00	3,488.63
MW - 1	08/27/14	3,508.39	-	19.78	0.00	3,488.61
MW - 1	09/24/14	3,508.39	-	18.98	0.00	3,489.41
MW - 1	10/07/14	3,508.39	-	18.63	0.00	3,489.76
MW - 1	10/07/14	3,508.39	-	18.58	0.00	3,489.81
MW - 1	10/14/14	3,508.39	-	18.56	0.00	3,489.83
MW - 1	10/20/14	3,508.39	-	18.56	0.00	3,489.83
MW - 1	10/27/14	3,508.39	-	18.56	0.00	3,489.83
MW - 1	10/28/14	3,508.39	-	19.84	0.00	3,488.55
MW - 1	*11/11/14*	3,508.39	-	18.57	0.00	3,489.82
MW - 1	11/19/14	3,508.39	-	18.51	0.00	3,489.88
MW - 1	12/04/14	3,508.39	-	18.56	0.00	3,489.83
MW - 1	12/08/14	3,508.39	-	18.59	0.00	3,489.80
MW - 1	12/15/14	3,508.39	-	18.62	0.00	3,489.77
MW - 1	12/22/14	3,508.39	-	18.58	0.00	3,489.81
MW - 1	12/29/14	3,508.39	-	18.62	0.00	3,489.77
MW - 1	01/05/14	3,508.39	-	18.60	0.00	3,489.79
MW - 2	02/11/03	3,501.45	-	17.25	0.00	3,484.20
MW - 2	*02/27/03*	3,501.45	-	19.75	0.00	3,481.70
MW - 2	*05/05/04*	3,501.45	-	12.56	0.00	3,488.89
MW - 2	05/25/04	3,501.45	-	12.95	0.00	3,488.50
MW - 2	06/03/04	3,501.45	-	12.80	0.00	3,488.65
MW - 2	06/15/04	3,501.45	-	12.82	0.00	3,488.63
MW - 2	07/08/04	3,501.45	-	12.70	0.00	3,488.75
MW - 2	*07/26/04*	3,501.45	-	12.78	0.00	3,488.67

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 2	09/10/04	3,501.45	-	13.05	0.00	3,488.40
MW - 2	09/21/04	3,501.45	-	13.27	0.00	3,488.18
MW - 2	*10/04/04*	3,501.45	-	12.11	0.00	3,489.34
MW - 2	10/15/04	3,501.45	-	12.22	0.00	3,489.23
MW - 2	11/09/04	3,501.45	-	12.71	0.00	3,488.74
MW - 2	11/16/04	3,501.45	-	12.19	0.00	3,489.26
MW - 2	12/07/04	3,501.45	-	12.27	0.00	3,489.18
MW - 2	*12/17/04*	3,501.45	-	12.32	0.00	3,489.13
MW - 2	01/07/05	3,501.45	-	12.13	0.00	3,489.32
MW - 2	02/21/05	3,501.45	-	11.99	0.00	3,489.46
MW - 2	*03/29/05*	3,501.45	-	11.68	0.00	3,489.77
MW - 2	04/22/05	3,501.45	-	11.75	0.00	3,489.70
MW - 2	05/06/05	3,501.45	-	11.64	0.00	3,489.81
MW - 2	*05/11/05*	3,501.45	-	11.65	0.00	3,489.80
MW - 2	07/19/05	3,501.45	-	11.62	0.00	3,489.83
MW - 2	*08/16/05*	3,501.45	-	11.37	0.00	3,490.08
MW - 2	10/05/05	3,501.45	-	11.71	0.00	3,489.74
MW - 2	*11/15/05*	3,501.45	-	11.55	0.00	3,489.90
MW - 2	*02/15/06*	3,501.45	-	11.45	0.00	3,490.00
MW - 2	03/13/06	3,501.45	-	11.57	0.00	3,489.88
MW - 2	03/22/06	3,501.45	NOT SAMPLED			
MW - 2	*05/23/06*	3,501.45	-	11.44	0.00	3,490.01
MW - 2	07/20/06	3,501.45	-	11.77	0.00	3,489.68
MW - 2	*08/09/06*	3,501.45	-	11.65	0.00	3,489.80
MW - 2	10/18/06	3,501.45	-	11.25	0.00	3,490.20
MW - 2	*11/27/06*	3,501.45	-	11.31	0.00	3,490.14
MW - 2	12/11/06	3,501.45	-	11.36	0.00	3,490.09
MW - 2	01/04/07	3,501.45	-	11.29	0.00	3,490.16
MW - 2	02/16/07	3,501.45	-	11.11	0.00	3,490.34
MW - 2	*03/20/07*	3,501.45	-	11.04	0.00	3,490.41
MW - 2	*06/04/07*	3,501.45	-	10.92	0.00	3,490.53
MW - 2	08/22/07	3,501.45	-	11.57	0.00	3,489.88
MW - 2	*11/29/07*	3,501.45	-	11.30	0.00	3,490.15
MW - 2	*02/26/08*	3,501.45	-	11.17	0.00	3,490.28
MW - 2	*05/22/08*	3,501.45	-	11.18	0.00	3,490.27
MW - 2	*08/28/08*	3,501.45	-	12.93	0.00	3,488.52
MW - 2	*11/20/08*	3,501.45	-	11.46	0.00	3,489.99
MW - 2	*02/16/09*	3,501.45	-	11.31	0.00	3,490.14
MW - 2	*05/29/09*	3,501.45	-	19.72	0.00	3,481.73
MW - 2	06/11/09	3,501.45	-	19.83	0.00	3,481.62
MW - 2	06/18/09	3,501.45	-	19.89	0.00	3,481.56

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 2	06/25/09	3,501.45	-	19.49	0.00	3,481.96
MW - 2	07/02/09	3,501.45	-	20.19	0.00	3,481.26
MW - 2	07/09/09	3,501.45	-	19.85	0.00	3,481.60
MW - 2	07/13/09	3,501.45	-	19.86	0.00	3,481.59
MW - 2	07/24/09	3,501.45	-	20.18	0.00	3,481.27
MW - 2	07/29/09	3,501.45	-	20.19	0.00	3,481.26
MW - 2	07/31/09	3,501.45	-	20.20	0.00	3,481.25
MW - 2	*08/06/09*	3,501.45	-	20.22	0.00	3,481.23
MW - 2	08/13/09	3,501.45	-	20.22	0.00	3,481.23
MW - 2	08/21/09	3,501.45	-	20.23	0.00	3,481.22
MW - 2	09/18/09	3,501.45	-	20.39	0.00	3,481.06
MW - 2	09/29/09	3,501.45	-	19.87	0.00	3,481.58
MW - 2	10/06/09	3,501.45	-	19.86	0.00	3,481.59
MW - 2	10/20/09	3,501.45	-	20.47	0.00	3,480.98
MW - 2	10/27/09	3,501.45	-	20.46	0.00	3,480.99
MW - 2	10/27/09	3,501.45	-	20.62	0.00	3,480.83
MW - 2	11/13/09	3,501.45	-	20.50	0.00	3,480.95
MW - 2	12/16/09	3,501.45	-	20.46	0.00	3,480.99
MW - 2	12/21/09	3,501.45	-	20.68	0.00	3,480.77
MW - 2	01/05/10	3,501.45	-	20.56	0.00	3,480.89
MW - 2	01/22/10	3,501.45	-	20.34	0.00	3,481.11
MW - 2	*02/04/10*	3,501.45	-	19.39	0.00	3,482.06
MW - 2	03/01/10	3,501.45	-	20.34	0.00	3,481.11
MW - 2	03/10/10	3,501.45	-	20.36	0.00	3,481.09
MW - 2	03/12/10	3,501.45	-	20.33	0.00	3,481.12
MW - 2	03/15/10	3,501.45	-	20.36	0.00	3,481.09
MW - 2	03/17/10	3,501.45	sheen	20.15	0.00	3,481.30
MW - 2	03/22/10	3,501.45	-	20.35	0.00	3,481.10
MW - 2	03/31/10	3,501.45	-	20.34	0.00	3,481.11
MW - 2	04/05/10	3,501.45	-	20.36	0.00	3,481.09
MW - 2	04/14/10	3,501.45	-	20.36	0.00	3,481.09
MW - 2	04/16/10	3,501.45	-	20.38	0.00	3,481.07
MW - 2	04/19/10	3,501.45	-	20.10	0.00	3,481.35
MW - 2	04/26/10	3,501.45	-	20.12	0.00	3,481.33
MW - 2	*05/06/10*	3,501.45	-	20.00	0.00	3,481.45
MW - 2	05/14/10	3,501.45	-	20.55	0.00	3,480.90
MW - 2	05/21/10	3,501.45	-	20.38	0.00	3,481.07
MW - 2	05/24/10	3,501.45	-	20.36	0.00	3,481.09
MW - 2	06/08/10	3,501.45	-	20.03	0.00	3,481.42
MW - 2	06/16/10	3,501.45	-	20.15	0.00	3,481.30
MW - 2	06/29/10	3,501.45	sheen	20.24	0.00	3,481.21

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 2	07/08/10	3,501.45	sheen	19.83	0.00	3,481.62
MW - 2	07/13/10	3,501.45	sheen	19.67	0.00	3,481.78
MW - 2	07/22/10	3,501.45	sheen	19.58	0.00	3,481.87
MW - 2	07/30/10	3,501.45	sheen	19.49	0.00	3,481.96
MW - 2	08/04/10	3,501.45	sheen	19.47	0.00	3,481.98
MW - 2	*08/05/10*	3,501.45	-	19.42	0.00	3,482.03
MW - 2	08/19/10	3,501.45	sheen	19.52	0.00	3,481.93
MW - 2	08/27/10	3,501.45	sheen	19.52	0.00	3,481.93
MW - 2	09/03/10	3,501.45	sheen	19.58	0.00	3,481.87
MW - 2	09/09/10	3,501.45	-	19.59	0.00	3,481.86
MW - 2	09/17/10	3,501.45	sheen	19.52	0.00	3,481.93
MW - 2	10/01/10	3,501.45	-	19.60	0.00	3,481.85
MW - 2	10/04/10	3,501.45	-	19.59	0.00	3,481.86
MW - 2	10/13/10	3,501.45	sheen	19.77	0.00	3,481.68
MW - 2	10/19/10	3,501.45	-	19.57	0.00	3,481.88
MW - 2	10/26/10	3,501.45	-	19.54	0.00	3,481.91
MW - 2	*11/04/10*	3,501.45	-	19.42	0.00	3,482.03
MW - 2	11/05/10	3,501.45	sheen	19.75	0.00	3,481.70
MW - 2	11/12/10	3,501.45	sheen	19.92	0.00	3,481.53
MW - 2	11/19/10	3,501.45	sheen	19.88	0.00	3,481.57
MW - 2	12/10/10	3,501.45	sheen	31.94	0.00	3,469.51
MW - 2	12/13/10	3,501.45	-	33.82	0.00	3,467.63
MW - 2	01/20/11	3,501.45	sheen	19.49	0.00	3,481.96
MW - 2	*02/09/11*	3,501.45	-	19.42	0.00	3,482.03
MW - 2	*05/03/11*	3,501.45	-	19.42	0.00	3,482.03
MW - 2	05/19/11	3,501.45	-	19.90	0.00	3,481.55
MW - 2	05/25/11	3,501.45	-	19.96	0.00	3,481.49
MW - 2	06/06/11	3,501.45	-	20.04	0.00	3,481.41
MW - 2	06/13/11	3,501.45	-	19.98	0.00	3,481.47
MW - 2	06/27/11	3,501.45	-	20.01	0.00	3,481.44
MW - 2	07/07/11	3,501.45	-	20.26	0.00	3,481.19
MW - 2	07/14/11	3,501.45	-	20.32	0.00	3,481.13
MW - 2	07/25/11	3,501.45	-	20.20	0.00	3,481.25
MW - 2	*08/02/11*	3,501.45	-	19.42	0.00	3,482.03
MW - 2	08/03/11	3,501.45	-	20.43	0.00	3,481.02
MW - 2	08/18/11	3,501.45	-	20.62	0.00	3,480.83
MW - 2	08/24/11	3,501.45	-	20.68	0.00	3,480.77
MW - 2	08/29/11	3,501.45	-	20.48	0.00	3,480.97
MW - 2	09/07/11	3,501.45	-	20.64	0.00	3,480.81
MW - 2	09/14/11	3,501.45	-	20.65	0.00	3,480.80
MW - 2	10/26/11	3,501.45	-	20.64	0.00	3,480.81

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 2	*11/21/11*	3,501.45	-	20.55	0.00	3,480.90
MW - 2	11/28/11	3,501.45	-	20.57	0.00	3,480.88
MW - 2	12/12/11	3,501.45	-	20.56	0.00	3,480.89
MW - 2	01/10/12	3,501.45	-	20.51	0.00	3,480.94
MW - 2	01/17/12	3,501.45	-	19.49	0.00	3,481.96
MW - 2	01/25/12	3,501.45	-	20.49	0.00	3,480.96
MW - 2	02/01/12	3,501.45	-	20.43	0.00	3,481.02
MW - 2	*02/13/12*	3,501.45	-	20.36	0.00	3,481.09
MW - 2	03/07/12	3,501.45	-	20.28	0.00	3,481.17
MW - 2	03/19/12	3,501.45	-	20.25	0.00	3,481.20
MW - 2	03/28/12	3,501.45	-	20.20	0.00	3,481.25
MW - 2	04/04/12	3,501.45	-	20.19	0.00	3,481.26
MW - 2	04/11/12	3,501.45	-	20.17	0.00	3,481.28
MW - 2	04/18/12	3,501.45	-	20.15	0.00	3,481.30
MW - 2	04/25/12	3,501.45	-	20.15	0.00	3,481.30
MW - 2	05/03/12	3,501.45	-	20.19	0.00	3,481.26
MW - 2	05/09/12	3,501.45	-	20.22	0.00	3,481.23
MW - 2	05/16/12	3,501.45	-	20.24	0.00	3,481.21
MW - 2	*05/24/12*	3,501.45	-	20.21	0.00	3,481.24
MW - 2	06/01/12	3,501.45	-	20.20	0.00	3,481.25
MW - 2	06/06/12	3,501.45	-	20.18	0.00	3,481.27
MW - 2	06/14/12	3,501.45	-	20.25	0.00	3,481.20
MW - 2	06/20/12	3,501.45	-	20.26	0.00	3,481.19
MW - 2	06/26/12	3,501.45	-	20.28	0.00	3,481.17
MW - 2	07/11/12	3,501.45	-	20.47	0.00	3,480.98
MW - 2	07/18/12	3,501.45	-	20.54	0.00	3,480.91
MW - 2	08/02/12	3,501.45	-	20.63	0.00	3,480.82
MW - 2	*08/07/12*	3,501.45	-	20.65	0.00	3,480.80
MW - 2	08/17/12	3,501.45	-	20.32	0.00	3,481.13
MW - 2	09/06/12	3,501.45	-	20.77	0.00	3,480.68
MW - 2	09/11/12	3,501.45	-	20.80	0.00	3,480.65
MW - 2	09/25/12	3,501.45	-	20.87	0.00	3,480.58
MW - 2	10/02/12	3,501.45	-	20.89	0.00	3,480.56
MW - 2	10/09/12	3,501.45	-	20.81	0.00	3,480.64
MW - 2	10/17/12	3,501.45	-	20.74	0.00	3,480.71
MW - 2	10/24/12	3,501.45	-	20.73	0.00	3,480.72
MW - 2	11/01/12	3,501.45	-	20.69	0.00	3,480.76
MW - 2	11/14/12	3,501.45	-	20.60	0.00	3,480.85
MW - 2	*02/14/13*	3,501.45	-	20.47	0.00	3,480.98
MW - 2	03/19/13	3,501.45	-	20.41	0.00	3,481.04
MW - 2	04/04/13	3,501.45	-	20.37	0.00	3,481.08

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 2	04/09/13	3,501.45	-	20.35	0.00	3,481.10
MW - 2	04/17/13	3,501.45	-	20.36	0.00	3,481.09
MW - 2	04/23/13	3,501.45	-	20.35	0.00	3,481.10
MW - 2	04/30/13	3,501.45	-	20.33	0.00	3,481.12
MW - 2	05/08/13	3,501.45	-	20.31	0.00	3,481.14
MW - 2	*05/09/13*	3,501.45	-	20.32	0.00	3,481.13
MW - 2	05/14/13	3,501.45	-	20.32	0.00	3,481.13
MW - 2	05/22/13	3,501.45	-	20.29	0.00	3,481.16
MW - 2	05/29/13	3,501.45	-	20.32	0.00	3,481.13
MW - 2	06/05/13	3,501.45	-	20.36	0.00	3,481.09
MW - 2	06/11/13	3,501.45	-	20.39	0.00	3,481.06
MW - 2	06/19/13	3,501.45	-	20.41	0.00	3,481.04
MW - 2	06/28/13	3,501.45	-	19.51	0.00	3,481.94
MW - 2	07/01/13	3,501.45	-	20.61	0.00	3,480.84
MW - 2	07/11/13	3,501.45	-	20.69	0.00	3,480.76
MW - 2	07/23/13	3,501.45	-	20.71	0.00	3,480.74
MW - 2	07/30/13	3,501.45	-	20.69	0.00	3,480.76
MW - 2	*08/08/13*	3,501.45	-	20.61	0.00	3,480.84
MW - 2	08/14/13	3,501.45	-	20.70	0.00	3,480.75
MW - 2	08/22/13	3,501.45	-	20.75	0.00	3,480.70
MW - 2	08/27/13	3,501.45	-	20.77	0.00	3,480.68
MW - 2	09/05/13	3,501.45	-	20.84	0.00	3,480.61
MW - 2	09/10/13	3,501.45	-	20.91	0.00	3,480.54
MW - 2	09/17/13	3,501.45	-	20.94	0.00	3,480.51
MW - 2	09/24/13	3,501.45	-	20.80	0.00	3,480.65
MW - 2	10/07/13	3,501.45	-	20.98	0.00	3,480.47
MW - 2	10/23/13	3,501.45	-	20.86	0.00	3,480.59
MW - 2	10/30/13	3,501.45	-	20.86	0.00	3,480.59
MW - 2	11/06/13	3,501.45	-	20.83	0.00	3,480.62
MW - 2	11/14/13	3,501.45	-	20.73	0.00	3,480.72
MW - 2	*11/21/13*	3,501.45	-	20.73	0.00	3,480.72
MW - 2	12/12/13	3,501.45	-	20.67	0.00	3,480.78
MW - 2	12/19/13	3,501.45	-	20.63	0.00	3,480.82
MW - 2	12/24/13	3,501.45	-	20.62	0.00	3,480.83
MW - 2	01/03/14	3,501.45	-	20.59	0.00	3,480.86
MW - 2	01/06/14	3,501.45	-	21.71	0.00	3,479.74
MW - 2	01/13/14	3,501.45	-	19.66	0.00	3,481.79
MW - 2	01/21/14	3,501.45	-	20.65	0.00	3,480.80
MW - 2	01/27/14	3,501.45	-	20.65	0.00	3,480.80
MW - 2	02/05/14	3,509.87	-	20.58	0.00	3,489.29
MW - 2	02/10/14	3,509.87	-	20.56	0.00	3,489.31

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 2	*02/24/14*	3,509.87	-	20.51	0.00	3,489.36
MW - 2	03/17/14	3,509.87	-	20.48	0.00	3,489.39
MW - 2	03/25/14	3,509.87	-	20.48	0.00	3,489.39
MW - 2	04/02/14	3,509.87	-	20.45	0.00	3,489.42
MW - 2	04/16/14	3,509.87	-	20.40	0.00	3,489.47
MW - 2	04/22/14	3,509.87	-	20.39	0.00	3,489.48
MW - 2	04/29/14	3,509.87	-	20.43	0.00	3,489.44
MW - 2	05/06/14	3,509.87	-	20.37	0.00	3,489.50
MW - 2	*05/07/14*	3,509.87	-	20.39	0.00	3,489.48
MW - 2	05/13/14	3,509.87	-	20.42	0.00	3,489.45
MW - 2	05/21/14	3,509.87	-	20.41	0.00	3,489.46
MW - 2	05/29/14	3,509.87	-	20.45	0.00	3,489.42
MW - 2	06/05/14	3,509.87	-	20.52	0.00	3,489.35
MW-2	06/11/14	3,509.87	-	20.59	0.00	3,489.28
MW-2	06/16/14	3,509.87	-	20.66	0.00	3,489.21
MW-2	06/24/14	3,509.87	-	20.76	0.00	3,489.11
MW-2	07/01/14	3,509.87	-	20.86	0.00	3,489.01
MW-2	07/08/14	3,509.87	-	20.88	0.00	3,488.99
MW-2	07/15/14	3,509.87	-	20.93	0.00	3,488.94
MW-2	07/22/14	3,509.87	-	20.98	0.00	3,488.89
MW-2	07/23/14	3,509.87	-	20.98	0.00	3,488.89
MW-2	07/31/14	3,509.87	-	20.99	0.00	3,488.88
MW-2	08/07/14	3,509.87	-	21.03	0.00	3,488.84
MW-2	08/13/14	3,509.87	-	21.02	0.00	3,488.85
MW-2	*08/16/14*	3,509.87	-	21.50	0.00	3,488.37
MW-2	08/20/14	3,509.87	-	21.06	0.00	3,488.81
MW-2	08/27/14	3,509.87	-	21.09	0.00	3,488.78
MW-2	09/24/14	3,509.87	-	20.23	0.00	3,489.64
MW-2	10/01/14	3,509.87	-	19.95	0.00	3,489.92
MW-2	10/07/14	3,509.87	-	19.89	0.00	3,489.98
MW-2	10/14/14	3,509.87	-	19.82	0.00	3,490.05
MW-2	10/20/14	3,509.87	-	19.85	0.00	3,490.02
MW-2	10/27/14	3,509.87	-	19.85	0.00	3,490.02
MW-2	10/28/14	3,509.87	-	20.21	0.00	3,489.66
MW-2	*11/11/14*	3,509.87	-	19.88	0.00	3,489.99
MW-2	11/19/14	3,509.87	-	19.79	0.00	3,490.08
MW-2	12/04/14	3,509.87	-	19.85	0.00	3,490.02
MW-2	12/08/14	3,509.87	-	19.87	0.00	3,490.00
MW-2	12/15/14	3,509.87	-	19.90	0.00	3,489.97
MW-2	12/22/14	3,509.87	-	19.86	0.00	3,490.01
MW-2	12/29/14	3,509.87	-	19.87	0.00	3,490.00

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW-2	01/05/14	3,509.87	-	19.89	0.00	3,489.98
MW - 3	02/11/03	3,495.97	17.10	17.77	0.67	3,478.77
MW - 3	*02/27/03*	3,495.97	16.64	19.15	2.51	3,478.95
MW - 3	03/19/03	3,495.97	16.63	19.50	2.87	3,478.91
MW - 3	04/03/03	3,495.97	16.65	19.47	2.82	3,478.90
MW - 3	04/11/03	3,495.97	16.65	19.48	2.83	3,478.90
MW - 3	04/21/03	3,495.97	16.62	18.98	2.36	3,479.00
MW - 3	04/30/03	3,495.97	6.98	8.67	1.69	3,488.74
MW - 3	05/05/03	3,495.97	6.93	8.63	1.70	3,488.79
MW - 3	06/18/03	3,495.97	7.24	8.15	0.91	3,488.59
MW - 3	07/09/03	3,495.97	7.49	8.18	0.69	3,488.38
MW - 3	07/21/03	3,495.97	7.49	8.19	0.70	3,488.38
MW - 3	08/12/03	3,495.97	7.50	8.20	0.70	3,488.37
MW - 3	08/18/03	3,495.97	7.47	8.19	0.72	3,488.39
MW - 3	09/03/03	3,495.97	7.96	8.52	0.56	3,487.93
MW - 3	09/19/03	3,495.97	7.97	8.51	0.54	3,487.92
MW - 3	10/02/03	3,495.97	7.95	8.50	0.55	3,487.94
MW - 3	11/03/03	3,495.97	8.15	8.65	0.50	3,487.75
MW - 3	11/13/03	3,495.97	8.14	8.51	0.37	3,487.77
MW - 3	11/25/03	3,495.97	8.15	8.50	0.35	3,487.77
MW - 3	12/02/03	3,495.97	8.15	8.20	0.05	3,487.81
MW - 3	12/10/03	3,495.97	8.13	8.16	0.03	3,487.84
MW - 3	01/02/04	3,495.97	8.05	8.08	0.03	3,487.92
MW - 3	01/30/04	3,495.97	8.22	8.24	0.02	3,487.75
MW - 3	02/06/04	3,495.97	8.23	8.24	0.01	3,487.74
MW - 3	*05/05/04*	3,495.97	-	7.16	0.00	3,488.81
MW - 3	05/25/04	3,495.97	9.92	9.94	0.02	3,486.05
MW - 3	06/03/04	3,495.97	-	9.84	0.00	3,486.13
MW - 3	06/15/04	3,495.97	-	9.73	0.00	3,486.24
MW - 3	07/08/04	3,495.97	-	9.70	0.00	3,486.27
MW - 3	*07/26/04*	3,495.97	-	9.73	0.00	3,486.24
MW - 3	09/10/04	3,495.97	-	10.18	0.00	3,485.79
MW - 3	09/21/04	3,495.97	-	10.11	0.00	3,485.86
MW - 3	*10/04/04*	3,495.97	-	9.25	0.00	3,486.72
MW - 3	10/15/04	3,495.97	9.13	9.16	0.03	3,486.84
MW - 3	11/09/04	3,495.97	-	9.60	0.00	3,486.37
MW - 3	11/16/04	3,495.97	-	6.15	0.00	3,489.82
MW - 3	12/07/04	3,495.97	-	9.18	0.00	3,486.79
MW - 3	*12/17/04*	3,495.97	-	9.36	0.00	3,486.61
MW - 3	01/07/05	3,495.97	-	9.22	0.00	3,486.75

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 3	02/21/05	3,495.97	-	9.00	0.00	3,486.97
MW - 3	*03/29/05*	3,495.97	-	8.65	0.00	3,487.32
MW - 3	04/22/05	3,495.97	-	8.80	0.00	3,487.17
MW - 3	05/06/05	3,495.97	-	8.96	0.00	3,487.01
MW - 3	*05/11/05*	3,495.97	-	8.91	0.00	3,487.06
MW - 3	07/19/05	3,495.97	8.54	8.55	0.01	3,487.43
MW - 3	*08/16/05*	3,495.97	-	8.50	0.00	3,487.47
MW - 3	10/05/05	3,495.97	-	8.65	0.00	3,487.32
MW - 3	*11/15/05*	3,495.97	-	8.46	0.00	3,487.51
MW - 3	*02/15/06*	3,495.97	-	5.46	0.00	3,490.51
MW - 3	03/13/06	3,495.97	-	9.20	0.00	3,486.77
MW - 3	03/22/06	3,495.97	NOT SAMPLED			
MW - 3	*05/23/06*	3,495.97	-	8.52	0.00	3,487.45
MW - 3	07/20/06	3,495.97	-	8.85	0.00	3,487.12
MW - 3	*08/09/06*	3,495.97	NOT SAMPLED			
MW - 3	10/18/06	3,495.97	-	8.65	0.00	3,487.32
MW - 3	*11/27/06*	3,495.97	-	8.81	0.00	3,487.16
MW - 3	12/11/06	3,495.97	-	9.19	0.00	3,486.78
MW - 3	01/04/07	3,495.97	-	8.21	0.00	3,487.76
MW - 3	02/16/07	3,495.97		8.01	0.00	3,487.96
MW - 3	*03/20/07*	3,495.97	-	7.89	0.00	3,488.08
MW - 3	*06/04/07*	3,495.97	-	7.78	0.00	3,488.19
MW - 3	*08/22/07*	3,495.97	8.44	8.48	0.04	3,487.52
MW - 3	10/10/07	3,495.97	-	8.32	0.00	3,487.65
MW - 3	*11/29/07*	3,495.97	-	8.29	0.00	3,487.68
MW - 3	*02/26/08*	3,495.97	-	8.34	0.00	3,487.63
MW - 3	*04/25/08*	3,495.97	-	8.34	0.00	3,487.63
MW - 3	*05/22/08*	3,495.97	-	-	-	-
MW - 3	08/19/08	3,495.97	-	8.44	0.00	3,487.53
MW - 3	*08/28/08*	3,495.97	8.72	8.74	0.02	3,487.25
MW - 3	09/12/08	3,495.97	-	8.38	0.00	3,487.59
MW - 3	09/25/08	3,495.97	-	8.54	0.00	3,487.43
MW - 3	09/30/08	3,495.97	-	8.60	0.00	3,487.37
MW - 3	10/09/08	3,495.97	-	8.55	0.00	3,487.42
MW - 3	10/23/08	3,495.97	-	8.37	0.00	3,487.60
MW - 3	10/28/08	3,495.97	-	8.40	0.00	3,487.57
MW - 3	*11/20/08*	3,495.97	-	8.50	0.00	3,487.47
MW - 3	12/03/08	3,495.97	-	8.73	0.00	3,487.24
MW - 3	12/16/08	3,495.97	-	8.31	0.00	3,487.66
MW - 3	12/19/08	3,495.97	-	8.31	0.00	3,487.66
MW - 3	12/29/08	3,495.97	-	0.00	0.00	3,495.97

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 3	01/07/09	3,495.97	-	8.30	0.00	3,487.67
MW - 3	*02/16/09*	3,495.97	-	8.29	0.00	3,487.68
MW - 3	*05/29/09*	3,495.97	-	20.26	0.00	3,475.71
MW - 3	06/11/09	3,495.97	-	20.35	0.00	3,475.62
MW - 3	06/18/09	3,495.97	-	20.42	0.00	3,475.55
MW - 3	06/25/09	3,495.97	-	20.66	0.00	3,475.31
MW - 3	07/02/09	3,495.97	-	20.80	0.00	3,475.17
MW - 3	07/09/09	3,495.97	-	20.37	0.00	3,475.60
MW - 3	07/13/09	3,495.97	-	20.39	0.00	3,475.58
MW - 3	07/24/09	3,495.97	-	20.88	0.00	3,475.09
MW - 3	07/29/09	3,495.97	-	20.78	0.00	3,475.19
MW - 3	07/31/09	3,495.97	-	20.81	0.00	3,475.16
MW - 3	*08/06/09*	3,495.97	-	20.80	0.00	3,475.17
MW - 3	08/13/09	3,495.97	-	20.85	0.00	3,475.12
MW - 3	08/21/09	3,495.97	-	21.00	0.00	3,474.97
MW - 3	09/18/09	3,495.97	-	20.97	0.00	3,475.00
MW - 3	09/29/09	3,495.97	-	20.39	0.00	3,475.58
MW - 3	10/06/09	3,495.97	-	20.38	0.00	3,475.59
MW - 3	10/20/09	3,495.97	-	21.09	0.00	3,474.88
MW - 3	10/27/09	3,495.97	-	21.11	0.00	3,474.86
MW - 3	*11/10/09*	3,495.97	-	21.21	0.00	3,474.76
MW - 3	11/13/09	3,495.97	-	21.02	0.00	3,474.95
MW - 3	12/16/09	3,495.97	-	21.33	0.00	3,474.64
MW - 3	12/21/09	3,495.97	-	21.27	0.00	3,474.70
MW - 3	01/05/10	3,495.97	-	21.34	0.00	3,474.63
MW - 3	01/22/10	3,495.97	-	21.02	0.00	3,474.95
MW - 3	*02/04/10*	3,495.97	-	21.06	0.00	3,474.91
MW - 3	03/01/10	3,495.97	-	21.03	0.00	3,474.94
MW - 3	03/10/10	3,495.97	-	21.06	0.00	3,474.91
MW - 3	03/12/10	3,495.97	-	20.95	0.00	3,475.02
MW - 3	03/15/10	3,495.97	-	20.97	0.00	3,475.00
MW - 3	03/17/10	3,495.97	sheen	20.72	0.00	3,475.25
MW - 3	03/22/10	3,495.97	-	21.08	0.00	3,474.89
MW - 3	03/31/10	3,495.97	-	20.93	0.00	3,475.04
MW - 3	04/05/10	3,495.97	-	21.05	0.00	3,474.92
MW - 3	04/14/10	3,495.97	-	20.92	0.00	3,475.05
MW - 3	04/16/10	3,495.97	-	21.08	0.00	3,474.89
MW - 3	04/19/10	3,495.97	-	20.74	0.00	3,475.23
MW - 3	04/26/10	3,495.97	-	20.75	0.00	3,475.22
MW - 3	*05/06/10*	3,495.97	-	20.57	0.00	3,475.40
MW - 3	05/14/10	3,495.97	-	20.02	0.00	3,475.95

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 3	05/21/10	3,495.97	-	21.08	0.00	3,474.89
MW - 3	05/24/10	3,495.97	-	21.09	0.00	3,474.88
MW - 3	06/08/10	3,495.97	sheen	20.58	0.00	3,475.39
MW - 3	06/16/10	3,495.97	sheen	20.67	0.00	3,475.30
MW - 3	06/29/10	3,495.97	sheen	20.84	0.00	3,475.13
MW - 3	07/08/10	3,495.97	sheen	20.51	0.00	3,475.46
MW - 3	07/13/10	3,495.97	sheen	20.36	0.00	3,475.61
MW - 3	07/22/10	3,495.97	sheen	20.23	0.00	3,475.74
MW - 3	07/30/10	3,495.97	sheen	20.04	0.00	3,475.93
MW - 3	08/04/10	3,495.97	sheen	20.01	0.00	3,475.96
MW - 3	*08/05/10*	3,495.97	-	20.02	0.00	3,475.95
MW - 3	08/19/10	3,495.97	sheen	20.10	0.00	3,475.87
MW - 3	08/27/10	3,495.97	sheen	20.09	0.00	3,475.88
MW - 3	09/03/10	3,495.97	sheen	20.12	0.00	3,475.85
MW - 3	09/09/10	3,495.97	-	20.12	0.00	3,475.85
MW - 3	09/17/10	3,495.97	sheen	20.08	0.00	3,475.89
MW - 3	10/01/10	3,495.97	-	20.12	0.00	3,475.85
MW - 3	10/04/10	3,495.97	-	20.11	0.00	3,475.86
MW - 3	10/13/10	3,495.97	sheen	20.29	0.00	3,475.68
MW - 3	10/19/10	3,495.97	-	20.10	0.00	3,475.87
MW - 3	10/26/10	3,495.97	-	20.08	0.00	3,475.89
MW - 3	*11/04/10*	3,495.97	-	20.05	0.00	3,475.92
MW - 3	11/05/10	3,495.97	sheen	20.12	0.00	3,475.85
MW - 3	11/12/10	3,495.97	sheen	20.57	0.00	3,475.40
MW - 3	11/19/10	3,495.97	sheen	20.44	0.00	3,475.53
MW - 3	12/10/10	3,495.97	sheen	30.26	0.00	3,465.71
MW - 3	12/13/10	3,495.97	-	30.51	0.00	3,465.46
MW - 3	01/20/11	3,495.97	sheen	20.06	0.00	3,475.91
MW - 3	*02/09/11*	3,495.97	-	20.00	0.00	3,475.97
MW - 3	*05/03/11*	3,495.97	-	20.00	0.00	3,475.97
MW - 3	05/19/11	3,495.97	-	20.43	0.00	3,475.54
MW - 3	05/25/11	3,495.97	-	20.40	0.00	3,475.57
MW - 3	06/06/11	3,495.97	-	20.53	0.00	3,475.44
MW - 3	06/13/11	3,495.97	-	20.47	0.00	3,475.50
MW - 3	06/27/11	3,495.97	-	20.49	0.00	3,475.48
MW - 3	07/07/11	3,495.97	-	20.59	0.00	3,475.38
MW - 3	07/14/11	3,495.97	-	20.57	0.00	3,475.40
MW - 3	07/25/11	3,495.97	-	20.53	0.00	3,475.44
MW - 3	*08/02/11*	3,495.97	-	20.00	0.00	3,475.97
MW - 3	08/03/11	3,495.97	-	20.94	0.00	3,475.03
MW - 3	08/18/11	3,495.97	-	20.25	0.00	3,475.72

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 3	08/24/11	3,495.97	-	20.31	0.00	3,475.66
MW - 3	08/29/11	3,495.97	-	20.05	0.00	3,475.92
MW - 3	09/07/11	3,495.97	-	21.12	0.00	3,474.85
MW - 3	09/14/11	3,495.97	-	21.12	0.00	3,474.85
MW - 3	10/26/11	3,495.97	-	21.25	0.00	3,474.72
MW - 3	*11/21/11*	3,495.97	-	21.05	0.00	3,474.92
MW - 3	11/28/11	3,495.97	-	21.12	0.00	3,474.85
MW - 3	12/12/11	3,495.97	-	21.13	0.00	3,474.84
MW - 3	01/10/12	3,495.97	-	21.01	0.00	3,474.96
MW - 3	01/17/12	3,495.97	-	21.23	0.00	3,474.74
MW - 3	01/25/12	3,495.97	-	21.09	0.00	3,474.88
MW - 3	02/01/12	3,495.97	-	21.06	0.00	3,474.91
MW - 3	*02/13/12*	3,495.97	-	20.94	0.00	3,475.03
MW - 3	03/07/12	3,495.97	-	20.90	0.00	3,475.07
MW - 3	03/19/12	3,495.97	-	20.84	0.00	3,475.13
MW - 3	03/28/12	3,495.97	-	20.62	0.00	3,475.35
MW - 3	04/04/12	3,495.97	-	20.72	0.00	3,475.25
MW - 3	04/11/12	3,495.97	-	20.66	0.00	3,475.31
MW - 3	04/18/12	3,495.97	-	20.73	0.00	3,475.24
MW - 3	04/25/12	3,495.97	-	20.64	0.00	3,475.33
MW - 3	05/03/12	3,495.97	-	20.69	0.00	3,475.28
MW - 3	05/09/12	3,495.97	-	20.75	0.00	3,475.22
MW - 3	05/16/12	3,495.97	-	20.79	0.00	3,475.18
MW - 3	*05/24/12*	3,495.97	-	20.76	0.00	3,475.21
MW - 3	06/01/12	3,495.97	-	20.70	0.00	3,475.27
MW - 3	06/06/12	3,495.97	-	20.71	0.00	3,475.26
MW - 3	06/14/12	3,495.97	-	20.80	0.00	3,475.17
MW - 3	06/20/12	3,495.97	-	20.91	0.00	3,475.06
MW - 3	06/26/12	3,495.97	-	20.83	0.00	3,475.14
MW - 3	07/11/12	3,495.97	-	21.05	0.00	3,474.92
MW - 3	07/18/12	3,495.97	-	21.11	0.00	3,474.86
MW - 3	08/02/12	3,495.97	-	21.21	0.00	3,474.76
MW - 3	*08/07/12*	3,495.97	-	21.20	0.00	3,474.77
MW - 3	08/17/12	3,495.97	-	21.29	0.00	3,474.68
MW - 3	09/06/12	3,495.97	-	21.36	0.00	3,474.61
MW - 3	09/11/12	3,495.97	-	21.33	0.00	3,474.64
MW - 3	09/25/12	3,495.97	-	21.40	0.00	3,474.57
MW - 3	10/02/12	3,495.97	-	21.41	0.00	3,474.56
MW - 3	10/09/12	3,495.97	-	21.34	0.00	3,474.63
MW - 3	10/17/12	3,495.97	-	21.34	0.00	3,474.63
MW - 3	10/24/12	3,495.97	-	21.31	0.00	3,474.66

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 3	11/01/12	3,495.97	-	21.20	0.00	3,474.77
MW - 3	11/14/12	3,495.97	-	21.09	0.00	3,474.88
MW - 3	*02/14/13*	3,495.97	-	20.89	0.00	3,475.08
MW - 3	03/19/13	3,495.97	-	20.85	0.00	3,475.12
MW - 3	04/04/13	3,495.97	-	20.89	0.00	3,475.08
MW - 3	04/09/13	3,495.97	-	20.85	0.00	3,475.12
MW - 3	04/17/13	3,495.97	-	20.89	0.00	3,475.08
MW - 3	04/23/13	3,495.97	-	20.82	0.00	3,475.15
MW - 3	04/30/13	3,495.97	-	20.78	0.00	3,475.19
MW - 3	05/08/13	3,495.97	-	20.79	0.00	3,475.18
MW - 3	*05/09/13*	3,495.97	-	20.79	0.00	3,475.18
MW - 3	05/14/13	3,495.97	-	20.76	0.00	3,475.21
MW - 3	05/22/13	3,495.97	-	20.73	0.00	3,475.24
MW - 3	05/29/13	3,495.97	-	20.78	0.00	3,475.19
MW - 3	06/05/13	3,495.97	-	20.77	0.00	3,475.20
MW - 3	06/11/13	3,495.97	-	20.87	0.00	3,475.10
MW - 3	06/19/13	3,495.97	-	20.92	0.00	3,475.05
MW - 3	06/28/13	3,495.97	-	20.96	0.00	3,475.01
MW - 3	07/01/13	3,495.97	-	21.11	0.00	3,474.86
MW - 3	07/11/13	3,495.97	-	21.14	0.00	3,474.83
MW - 3	07/23/13	3,495.97	-	21.19	0.00	3,474.78
MW - 3	07/30/13	3,495.97	-	21.19	0.00	3,474.78
MW - 3	*08/08/13*	3,495.97	-	21.04	0.00	3,474.93
MW - 3	08/14/13	3,495.97	-	21.14	0.00	3,474.83
MW - 3	08/22/13	3,495.97	-	21.99	0.00	3,473.98
MW - 3	08/27/13	3,495.97	-	21.27	0.00	3,474.70
MW - 3	09/05/13	3,495.97	-	21.30	0.00	3,474.67
MW - 3	09/10/13	3,495.97	-	21.38	0.00	3,474.59
MW - 3	09/17/13	3,495.97	-	21.38	0.00	3,474.59
MW - 3	09/24/13	3,495.97	-	21.39	0.00	3,474.58
MW - 3	10/07/13	3,495.97	-	21.46	0.00	3,474.51
MW - 3	10/23/13	3,495.97	-	21.34	0.00	3,474.63
MW - 3	10/30/13	3,495.97	-	21.33	0.00	3,474.64
MW - 3	11/06/13	3,495.97	-	21.26	0.00	3,474.71
MW - 3	11/14/13	3,495.97	-	21.17	0.00	3,474.80
MW - 3	*11/21/13*	3,495.97	-	21.15	0.00	3,474.82
MW - 3	12/12/13	3,495.97	-	21.11	0.00	3,474.86
MW - 3	12/19/13	3,495.97	-	21.06	0.00	3,474.91
MW - 3	12/24/13	3,495.97	-	21.05	0.00	3,474.92
MW - 3	01/03/14	3,495.97	-	21.04	0.00	3,474.93
MW - 3	01/06/14	3,495.97	-	21.13	0.00	3,474.84

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 3	01/13/14	3,495.97	-	21.09	0.00	3,474.88
MW - 3	01/21/14	3,495.97	-	21.08	0.00	3,474.89
MW - 3	01/27/14	3,495.97	-	21.10	0.00	3,474.87
MW - 3	02/05/14	3,510.51	-	21.01	0.00	3,489.50
MW - 3	02/10/14	3,510.51	-	20.97	0.00	3,489.54
MW - 3	*02/24/14*	3,510.51	-	20.93	0.00	3,489.58
MW - 3	03/17/14	3,510.51	-	20.90	0.00	3,489.61
MW - 3	03/25/14	3,510.51	-	20.92	0.00	3,489.59
MW - 3	04/02/14	3,510.51	-	20.91	0.00	3,489.60
MW - 3	04/16/14	3,510.51	-	20.83	0.00	3,489.68
MW - 3	04/22/14	3,510.51	-	20.83	0.00	3,489.68
MW - 3	04/29/14	3,510.51	-	20.85	0.00	3,489.66
MW - 3	05/06/14	3,510.51	-	20.80	0.00	3,489.71
MW - 3	*05/07/14*	3,510.51	-	20.85	0.00	3,489.66
MW - 3	05/13/14	3,510.51	-	20.84	0.00	3,489.67
MW - 3	05/21/14	3,510.51	-	20.85	0.00	3,489.66
MW - 3	05/29/14	3,510.51	-	20.90	0.00	3,489.61
MW - 3	06/05/14	3,510.51	-	20.96	0.00	3,489.55
MW - 3	06/11/14	3,510.51	-	21.04	0.00	3,489.47
MW - 3	06/16/14	3,510.51	-	21.12	0.00	3,489.39
MW - 3	06/24/14	3,510.51	-	21.19	0.00	3,489.32
MW - 3	07/01/14	3,510.51	-	21.29	0.00	3,489.22
MW - 3	07/08/14	3,510.51	-	21.34	0.00	3,489.17
MW - 3	07/15/14	3,510.51	-	20.40	0.00	3,490.11
MW - 3	07/22/14	3,510.51	-	21.47	0.00	3,489.04
MW - 3	07/23/14	3,510.51	-	21.47	0.00	3,489.04
MW - 3	07/31/14	3,510.51	-	21.55	0.00	3,488.96
MW - 3	08/07/14	3,510.51	-	21.48	0.00	3,489.03
MW - 3	08/13/14	3,510.51	-	21.50	0.00	3,489.01
MW - 3	*08/16/14*	3,510.51	-	21.51	0.00	3,489.00
MW - 3	08/20/14	3,510.51	-	21.53	0.00	3,488.98
MW - 3	08/27/14	3,510.51	-	21.56	0.00	3,488.95
MW - 3	09/24/14	3,510.51	-	20.92	0.00	3,489.59
MW - 3	10/01/14	3,510.51	-	20.54	0.00	3,489.97
MW - 3	10/07/14	3,510.51	-	20.45	0.00	3,490.06
MW - 3	10/14/14	3,510.51	-	20.38	0.00	3,490.13
MW - 3	10/20/14	3,510.51	-	20.38	0.00	3,490.13
MW - 3	10/27/14	3,510.51	-	20.37	0.00	3,490.14
MW - 3	10/28/14	3,510.51	-	20.71	0.00	3,489.80
MW - 3	*11/11/14*	3,510.51	-	20.41	0.00	3,490.10
MW - 3	11/19/14	3,510.51	-	20.31	0.00	3,490.20

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 3	12/04/14	3,510.51	-	20.37	0.00	3,490.14
MW - 3	12/08/14	3,510.51	-	20.39	0.00	3,490.12
MW - 3	12/15/14	3,510.51	-	20.40	0.00	3,490.11
MW - 3	12/22/14	3,510.51	-	20.37	0.00	3,490.14
MW - 3	12/29/14	3,510.51	-	20.37	0.00	3,490.14
MW - 4	*05/25/04*	3,509.01	-	20.16	0.00	3,488.85
MW - 4	06/03/04	3,509.01	-	19.13	0.00	3,489.88
MW - 4	06/15/04	3,509.01	-	19.13	0.00	3,489.88
MW - 4	07/08/04	3,509.01	-	19.06	0.00	3,489.95
MW - 4	*07/26/04*	3,509.01	-	19.21	0.00	3,489.80
MW - 4	09/10/04	3,509.01	-	19.46	0.00	3,489.55
MW - 4	09/21/04	3,509.01	-	19.35	0.00	3,489.66
MW - 4	*10/04/04*	3,509.01	-	19.35	0.00	3,489.66
MW - 4	10/15/04	3,509.01	-	18.81	0.00	3,490.20
MW - 4	11/09/04	3,509.01	-	18.89	0.00	3,490.12
MW - 4	11/16/04	3,509.01	-	18.83	0.00	3,490.18
MW - 4	12/07/04	3,509.01	-	18.70	0.00	3,490.31
MW - 4	*12/17/04*	3,509.01	-	18.71	0.00	3,490.30
MW - 4	01/07/05	3,509.01	-	18.48	0.00	3,490.53
MW - 4	02/21/05	3,509.01	-	18.27	0.00	3,490.74
MW - 4	*03/29/05*	3,509.01	-	18.02	0.00	3,490.99
MW - 4	04/22/05	3,509.01	-	18.07	0.00	3,490.94
MW - 4	05/06/05	3,509.01	-	17.94	0.00	3,491.07
MW - 4	*05/11/05*	3,509.01	-	17.96	0.00	3,491.05
MW - 4	07/19/05	3,509.01	-	18.13	0.00	3,490.88
MW - 4	*08/16/05*	3,509.01	-	18.21	0.00	3,490.80
MW - 4	10/05/05	3,509.01	-	18.14	0.00	3,490.87
MW - 4	*11/15/05*	3,509.01	-	17.91	0.00	3,491.10
MW - 4	*02/15/06*	3,509.01	-	17.76	0.00	3,491.25
MW - 4	03/13/06	3,509.01	-	17.80	0.00	3,491.21
MW - 4	03/22/06	3,509.01	NOT SAMPLED			
MW - 4	*05/23/06*	3,509.01	-	17.84	0.00	3,491.17
MW - 4	07/20/06	3,509.01	-	18.26	0.00	3,490.75
MW - 4	*08/09/06*	3,509.01	NOT SAMPLED			
MW - 4	10/18/06	3,509.01	-	17.64	0.00	3,491.37
MW - 4	*11/27/06*	3,509.01	-	17.66	0.00	3,491.35
MW - 4	01/04/07	3,509.01	-	17.57	0.00	3,491.44
MW - 4	02/16/07	3,509.01	-	17.42	0.00	3,491.59
MW - 4	*03/20/07*	3,509.01	-	17.29	0.00	3,491.72
MW - 4	*06/04/07*	3,509.01	-	17.19	0.00	3,491.82

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 4	*08/22/07*	3,509.01	-	17.94	0.00	3,491.07
MW - 4	*11/29/07*	3,509.01	-	17.63	0.00	3,491.38
MW - 4	*02/26/08*	3,509.01	-	17.48	0.00	3,491.53
MW - 4	*05/22/08*	3,509.01	-	17.42	0.00	3,491.59
MW - 4	*08/28/08*	3,509.01	-	18.21	0.00	3,490.80
MW - 4	*11/20/08*	3,509.01	-	17.74	0.00	3,491.27
MW - 4	*02/16/09*	3,509.01	-	17.57	0.00	3,491.44
MW - 4	*05/29/09*	3,509.01	-	19.26	0.00	3,489.75
MW - 4	*08/06/09*	3,509.01	-	19.74	0.00	3,489.27
MW - 4	*11/10/09*	3,509.01	-	20.08	0.00	3,488.93
MW - 4	01/05/10	3,509.01	-	19.90	0.00	3,489.11
MW - 4	*02/04/10*	3,509.01	-	19.84	0.00	3,489.17
MW - 4	*05/06/10*	3,509.01	-	19.38	0.00	3,489.63
MW - 4	*08/05/10*	3,509.01	-	19.02	0.00	3,489.99
MW - 4	*11/04/10*	3,509.01	-	19.04	0.00	3,489.97
MW - 4	*02/09/11*	3,509.01	-	19.02	0.00	3,489.99
MW - 4	*05/03/11*	3,509.01	-	19.04	0.00	3,489.97
MW - 4	*08/02/11*	3,509.01	-	19.02	0.00	3,489.99
MW - 4	*11/21/11*	3,509.01	-	20.10	0.00	3,488.91
MW - 4	*02/13/12*	3,509.01	-	19.87	0.00	3,489.14
MW - 4	*05/24/12*	3,509.01	-	19.68	0.00	3,489.33
MW - 4	*08/07/12*	3,509.01	-	20.12	0.00	3,488.89
MW - 4	*11/14/12*	3,509.01	-	20.13	0.00	3,488.88
MW - 4	*02/14/13*	3,509.01	-	19.94	0.00	3,489.07
MW - 4	*05/09/13*	3,509.01	-	19.78	0.00	3,489.23
MW - 4	*08/08/13*	3,509.01	-	20.15	0.00	3,488.86
MW - 4	*11/21/13*	3,509.01	-	20.22	0.00	3,488.79
MW - 4	*02/24/14*	3,510.09	-	19.99	0.00	3,490.10
MW - 4	*05/07/14*	3,510.09	-	19.85	0.00	3,490.24
MW - 4	07/22/14	3,510.09	-	20.57	0.00	3,489.52
MW - 4	*08/16/14*	3,510.09	-	20.67	0.00	3,489.42
MW - 4	10/27/14	3,510.09	-	19.53	0.00	3,490.56
MW - 4	*11/11/14*	3,510.09	-	19.53	0.00	3,490.56
MW - 5	*05/25/04*	3,508.74	-	20.08	0.00	3,488.66
MW - 5	06/03/04	3,508.74	-	20.00	0.00	3,488.74
MW - 5	06/15/04	3,508.74	-	20.03	0.00	3,488.71
MW - 5	07/08/04	3,508.74	-	19.93	0.00	3,488.81
MW - 5	*07/26/04*	3,508.74	-	20.06	0.00	3,488.68
MW - 5	09/10/04	3,508.74	-	20.26	0.00	3,488.48
MW - 5	09/21/04	3,508.74	-	20.34	0.00	3,488.40

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 5	*10/04/04*	3,508.74	-	19.55	0.00	3,489.19
MW - 5	10/15/04	3,508.74	-	19.52	0.00	3,489.22
MW - 5	11/09/04	3,508.74	-	19.67	0.00	3,489.07
MW - 5	11/16/04	3,508.74	-	19.41	0.00	3,489.33
MW - 5	12/07/04	3,508.74	-	19.45	0.00	3,489.29
MW - 5	*12/17/04*	3,508.74	-	19.44	0.00	3,489.30
MW - 5	01/07/05	3,508.74	-	19.30	0.00	3,489.44
MW - 5	02/21/05	3,508.74	-	19.11	0.00	3,489.63
MW - 5	*03/29/05*	3,508.74	-	18.86	0.00	3,489.88
MW - 5	04/22/05	3,508.74	-	18.91	0.00	3,489.83
MW - 5	05/06/05	3,508.74	-	18.89	0.00	3,489.85
MW - 5	*05/11/05*	3,508.74	-	18.80	0.00	3,489.94
MW - 5	07/19/05	3,508.74	-	19.92	0.00	3,488.82
MW - 5	*08/16/05*	3,508.74	-	18.81	0.00	3,489.93
MW - 5	10/05/05	3,508.74	-	18.90	0.00	3,489.84
MW - 5	*11/15/05*	3,508.74	-	18.75	0.00	3,489.99
MW - 5	*02/15/06*	3,508.74	-	18.62	0.00	3,490.12
MW - 5	03/13/06	3,508.74	-	18.62	0.00	3,490.12
MW - 5	03/22/06	3,508.74	NOT SAMPLED			
MW - 5	*05/23/06*	3,508.74	-	18.71	0.00	3,490.03
MW - 5	07/20/06	3,508.74	-	19.05	0.00	3,489.69
MW - 5	*08/09/06*	3,508.74	-	18.92	0.00	3,489.82
MW - 5	10/18/06	3,508.74	-	18.45	0.00	3,490.29
MW - 5	*11/27/06*	3,508.74	-	18.45	0.00	3,490.29
MW - 5	12/11/06	3,508.74	-	18.46	0.00	3,490.28
MW - 5	01/04/07	3,508.74	-	18.46	0.00	3,490.28
MW - 5	02/16/07	3,508.74	-	18.24	0.00	3,490.50
MW - 5	*03/20/07*	3,508.74	-	18.24	0.00	3,490.50
MW - 5	*06/04/07*	3,508.74	-	18.10	0.00	3,490.64
MW - 5	08/22/07	3,508.74	-	18.81	0.00	3,489.93
MW - 5	*11/29/07*	3,508.74	-	18.49	0.00	3,490.25
MW - 5	*02/26/08*	3,508.74	-	18.39	0.00	3,490.35
MW - 5	*05/22/08*	3,508.74	-	18.40	0.00	3,490.34
MW - 5	*08/28/08*	3,508.74	-	19.03	0.00	3,489.71
MW - 5	*11/20/08*	3,508.74	-	18.64	0.00	3,490.10
MW - 5	*02/16/09*	3,508.74	-	18.49	0.00	3,490.25
MW - 5	*05/29/09*	3,508.74	-	19.14	0.00	3,489.60
MW - 5	*08/06/09*	3,508.74	-	19.57	0.00	3,489.17
MW - 5	*11/10/09*	3,508.74	-	19.95	0.00	3,488.79
MW - 5	*11/13/09*	3,508.74	-	19.91	0.00	3,488.83
MW - 5	01/05/10	3,508.74	-	19.78	0.00	3,488.96

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 5	*02/04/10*	3,508.74	-	19.71	0.00	3,489.03
MW - 5	*05/06/10*	3,508.74	-	19.27	0.00	3,489.47
MW - 5	*08/05/10*	3,508.74	-	18.91	0.00	3,489.83
MW - 5	*11/04/10*	3,508.74	-	18.92	0.00	3,489.82
MW - 5	*02/09/11*	3,508.74	-	18.90	0.00	3,489.84
MW - 5	*05/03/11*	3,508.74	-	18.89	0.00	3,489.85
MW - 5	05/19/11	3,508.74	-	19.64	0.00	3,489.10
MW - 5	05/25/11	3,508.74	-	19.62	0.00	3,489.12
MW - 5	06/06/11	3,508.74	-	19.45	0.00	3,489.29
MW - 5	06/13/11	3,508.74	-	19.60	0.00	3,489.14
MW - 5	06/27/11	3,508.74	-	19.58	0.00	3,489.16
MW - 5	07/07/11	3,508.74	-	19.60	0.00	3,489.14
MW - 5	07/14/11	3,508.74	-	19.63	0.00	3,489.11
MW - 5	07/25/11	3,508.74	-	19.67	0.00	3,489.07
MW - 5	*08/02/11*	3,508.74	-	18.86	0.00	3,489.88
MW - 5	08/03/11	3,508.74	-	19.81	0.00	3,488.93
MW - 5	08/18/11	3,508.74	-	19.99	0.00	3,488.75
MW - 5	08/24/11	3,508.74	-	20.10	0.00	3,488.64
MW - 5	08/29/11	3,508.74	-	19.92	0.00	3,488.82
MW - 5	09/07/11	3,508.74	-	20.06	0.00	3,488.68
MW - 5	09/14/11	3,508.74	-	20.19	0.00	3,488.55
MW - 5	10/26/11	3,508.74	-	20.03	0.00	3,488.71
MW - 5	*11/21/11*	3,508.74	-	19.95	0.00	3,488.79
MW - 5	11/28/11	3,508.74	-	19.93	0.00	3,488.81
MW - 5	12/12/11	3,508.74	-	19.96	0.00	3,488.78
MW - 5	01/10/12	3,508.74	-	19.84	0.00	3,488.90
MW - 5	01/17/12	3,508.74	-	19.84	0.00	3,488.90
MW - 5	01/25/12	3,508.74	-	19.80	0.00	3,488.94
MW - 5	02/01/12	3,508.74	-	19.07	0.00	3,489.67
MW - 5	*02/13/12*	3,508.74	-	19.75	0.00	3,488.99
MW - 5	03/07/12	3,508.74	-	19.63	0.00	3,489.11
MW - 5	03/19/12	3,508.74	-	19.60	0.00	3,489.14
MW - 5	03/28/12	3,508.74	-	19.56	0.00	3,489.18
MW - 5	04/04/12	3,508.74	-	19.54	0.00	3,489.20
MW - 5	04/11/12	3,508.74	-	19.52	0.00	3,489.22
MW - 5	04/18/12	3,508.74	-	19.51	0.00	3,489.23
MW - 5	04/25/12	3,508.74	-	19.52	0.00	3,489.22
MW - 5	05/03/12	3,508.74	-	19.58	0.00	3,489.16
MW - 5	05/09/12	3,508.74	-	19.62	0.00	3,489.12
MW - 5	05/16/12	3,508.74	-	19.61	0.00	3,489.13
MW - 5	*05/24/12*	3,508.74	-	19.56	0.00	3,489.18

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 5	06/01/12	3,508.74	-	19.57	0.00	3,489.17
MW - 5	06/06/12	3,508.74	-	19.54	0.00	3,489.20
MW - 5	06/14/12	3,508.74	-	19.63	0.00	3,489.11
MW - 5	06/20/12	3,508.74	-	19.63	0.00	3,489.11
MW - 5	06/26/12	3,508.74	-	19.67	0.00	3,489.07
MW - 5	07/11/12	3,508.74	-	19.86	0.00	3,488.88
MW - 5	07/18/12	3,508.74	-	19.93	0.00	3,488.81
MW - 5	08/02/12	3,508.74	-	20.07	0.00	3,488.67
MW - 5	*08/07/12*	3,508.74	-	20.00	0.00	3,488.74
MW - 5	08/17/12	3,508.74	-	20.15	0.00	3,488.59
MW - 5	09/06/12	3,508.74	-	20.21	0.00	3,488.53
MW - 5	09/11/12	3,508.74	-	20.24	0.00	3,488.50
MW - 5	09/25/12	3,508.74	-	20.31	0.00	3,488.43
MW - 5	10/02/12	3,508.74	-	20.29	0.00	3,488.45
MW - 5	10/09/12	3,508.74	-	20.23	0.00	3,488.51
MW - 5	10/17/12	3,508.74	-	20.15	0.00	3,488.59
MW - 5	10/24/12	3,508.74	-	20.12	0.00	3,488.62
MW - 5	11/01/12	3,508.74	-	20.07	0.00	3,488.67
MW - 5	11/14/12	3,508.74	-	20.00	0.00	3,488.74
MW - 5	*02/14/13*	3,508.74	-	19.82	0.00	3,488.92
MW - 5	03/19/13	3,508.74	-	19.75	0.00	3,488.99
MW - 5	04/04/13	3,508.74	-	19.71	0.00	3,489.03
MW - 5	04/09/13	3,508.74	-	19.71	0.00	3,489.03
MW - 5	04/17/13	3,508.74	-	19.70	0.00	3,489.04
MW - 5	04/23/13	3,508.74	-	19.70	0.00	3,489.04
MW - 5	04/30/13	3,508.74	-	19.68	0.00	3,489.06
MW - 5	04/30/13	3,508.74	-	19.66	0.00	3,489.08
MW - 5	05/08/13	3,508.74	-	19.65	0.00	3,489.09
MW - 5	*05/09/13*	3,508.74	-	19.67	0.00	3,489.07
MW - 5	05/14/13	3,508.74	-	19.66	0.00	3,489.08
MW - 5	05/22/13	3,508.74	-	19.64	0.00	3,489.10
MW - 5	05/29/13	3,508.74	-	19.66	0.00	3,489.08
MW - 5	06/05/13	3,508.74	-	19.72	0.00	3,489.02
MW - 5	06/11/13	3,508.74	-	19.75	0.00	3,488.99
MW - 5	06/19/13	3,508.74	-	19.79	0.00	3,488.95
MW - 5	06/28/13	3,508.74	-	19.93	0.00	3,488.81
MW - 5	07/01/13	3,508.74	-	19.96	0.00	3,488.78
MW - 5	07/11/13	3,508.74	-	20.07	0.00	3,488.67
MW - 5	07/23/13	3,508.74	-	20.08	0.00	3,488.66
MW - 5	07/30/13	3,508.74	-	20.03	0.00	3,488.71
MW - 5	*08/08/13*	3,508.74	-	20.01	0.00	3,488.73

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 5	08/14/13	3,508.74	-	20.07	0.00	3,488.67
MW - 5	08/22/13	3,508.74	-	20.11	0.00	3,488.63
MW - 5	08/27/13	3,508.74	-	20.17	0.00	3,488.57
MW - 5	09/05/13	3,508.74	-	20.22	0.00	3,488.52
MW - 5	09/10/13	3,508.74	-	20.28	0.00	3,488.46
MW - 5	09/17/13	3,508.74	-	20.32	0.00	3,488.42
MW - 5	09/24/13	3,508.74	-	20.32	0.00	3,488.42
MW - 5	10/07/13	3,508.74	-	20.38	0.00	3,488.36
MW - 5	10/23/13	3,508.74	-	20.26	0.00	3,488.48
MW - 5	10/30/13	3,508.74	-	20.21	0.00	3,488.53
MW - 5	11/06/13	3,508.74	-	20.18	0.00	3,488.56
MW - 5	11/14/13	3,508.74	-	20.10	0.00	3,488.64
MW - 5	*11/21/13*	3,508.74	-	20.10	0.00	3,488.64
MW - 5	12/12/13	3,508.74	-	20.05	0.00	3,488.69
MW - 5	12/19/13	3,508.74	-	20.01	0.00	3,488.73
MW - 5	12/24/13	3,508.74	-	19.99	0.00	3,488.75
MW - 5	01/03/14	3,508.74	-	19.95	0.00	3,488.79
MW - 5	01/06/14	3,508.74	-	20.02	0.00	3,488.72
MW - 5	01/13/14	3,508.74	-	19.98	0.00	3,488.76
MW - 5	01/21/14	3,508.74	-	19.97	0.00	3,488.77
MW - 5	01/27/14	3,508.74	-	19.98	0.00	3,488.76
MW - 5	02/05/14	3,509.64	-	19.92	0.00	3,489.72
MW - 5	02/10/14	3,509.64	-	20.95	0.00	3,488.69
MW - 5	*02/24/14*	3,509.64	-	19.87	0.00	3,489.77
MW - 5	03/17/14	3,509.64	-	19.80	0.00	3,489.84
MW - 5	03/25/14	3,509.64	-	19.82	0.00	3,489.82
MW - 5	04/02/14	3,509.64	-	19.78	0.00	3,489.86
MW - 5	04/16/14	3,509.64	-	19.73	0.00	3,489.91
MW - 5	04/22/14	3,509.64	-	19.73	0.00	3,489.91
MW - 5	04/29/14	3,509.64	-	19.74	0.00	3,489.90
MW - 5	05/06/14	3,509.64	-	19.71	0.00	3,489.93
MW - 5	*05/07/14*	3,509.64	-	19.73	0.00	3,489.91
MW - 5	05/13/14	3,509.64	-	19.74	0.00	3,489.90
MW - 5	05/21/14	3,509.64	-	19.77	0.00	3,489.87
MW - 5	05/29/14	3,509.64	-	19.80	0.00	3,489.84
MW - 5	06/05/14	3,509.64	-	19.88	0.00	3,489.76
MW - 5	06/11/14	3,509.64	-	19.97	0.00	3,489.67
MW - 5	06/16/14	3,509.64	-	20.05	0.00	3,489.59
MW - 5	06/24/14	3,509.64	-	20.14	0.00	3,489.50
MW - 5	07/01/14	3,509.64	-	20.22	0.00	3,489.42
MW - 5	07/08/14	3,509.64	-	20.26	0.00	3,489.38

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 5	07/15/14	3,509.64	-	20.32	0.00	3,489.32
MW - 5	07/22/14	3,509.64	-	20.39	0.00	3,489.25
MW - 5	07/23/14	3,509.64	-	20.39	0.00	3,489.25
MW - 5	07/31/14	3,509.64	-	20.42	0.00	3,489.22
MW - 5	08/07/14	3,509.64	-	20.44	0.00	3,489.20
MW - 5	08/13/14	3,509.64	-	20.46	0.00	3,489.18
MW - 5	*08/16/14*	3,509.64	-	20.47	0.00	3,489.17
MW - 5	08/20/14	3,509.64	-	20.49	0.00	3,489.15
MW - 5	08/27/14	3,509.64	-	20.51	0.00	3,489.13
MW - 5	09/24/14	3,509.64	-	19.80	0.00	3,489.84
MW - 5	10/01/14	3,509.64	-	19.44	0.00	3,490.20
MW - 5	10/07/14	3,509.64	-	19.34	0.00	3,490.30
MW - 5	10/14/14	3,509.64	-	19.28	0.00	3,490.36
MW - 5	10/20/14	3,509.64	-	19.27	0.00	3,490.37
MW - 5	10/27/14	3,509.64	-	19.25	0.00	3,490.39
MW - 5	10/28/14	3,509.64	-	18.71	0.00	3,490.93
MW - 5	*11/11/14*	3,509.64	-	19.27	0.00	3,490.37
MW - 5	11/19/14	3,509.64	-	19.19	0.00	3,490.45
MW - 5	12/04/14	3,509.64	-	19.21	0.00	3,490.43
MW - 5	12/08/14	3,509.64	-	19.25	0.00	3,490.39
MW - 5	12/15/14	3,509.64	-	19.26	0.00	3,490.38
MW - 5	12/22/14	3,509.64	-	19.22	0.00	3,490.42
MW - 5	12/29/14	3,509.64	-	19.24	0.00	3,490.40
MW - 6	*05/25/04*	3,509.76	-	21.76	0.00	3,488.00
MW - 6	06/03/04	3,509.76	-	21.63	0.00	3,488.13
MW - 6	06/15/04	3,509.76	-	21.65	0.00	3,488.11
MW - 6	07/08/04	3,509.76	-	21.55	0.00	3,488.21
MW - 6	*07/26/04*	3,509.76	-	21.67	0.00	3,488.09
MW - 6	09/10/04	3,509.76	-	22.06	0.00	3,487.70
MW - 6	09/21/04	3,509.76	-	22.25	0.00	3,487.51
MW - 6	*10/04/04*	3,509.76	-	21.39	0.00	3,488.37
MW - 6	10/15/04	3,509.76	-	21.25	0.00	3,488.51
MW - 6	11/09/04	3,509.76	-	21.46	0.00	3,488.30
MW - 6	11/16/04	3,509.76	-	21.27	0.00	3,488.49
MW - 6	12/07/04	3,509.76	-	21.23	0.00	3,488.53
MW - 6	*12/17/04*	3,509.76	-	21.29	0.00	3,488.47
MW - 6	01/07/05	3,509.76	-	21.07	0.00	3,488.69
MW - 6	02/21/05	3,509.76	-	20.91	0.00	3,488.85
MW - 6	*03/29/05*	3,509.76	-	20.68	0.00	3,489.08
MW - 6	04/22/05	3,509.76	-	20.74	0.00	3,489.02

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 6	05/06/05	3,509.76	-	20.59	0.00	3,489.17
MW - 6	*05/11/05*	3,509.76	-	20.60	0.00	3,489.16
MW - 6	07/19/05	3,509.76	-	20.60	0.00	3,489.16
MW - 6	*08/16/05*	3,509.76	-	20.62	0.00	3,489.14
MW - 6	10/05/05	3,509.76	-	20.65	0.00	3,489.11
MW - 6	*11/15/05*	3,509.76	-	20.50	0.00	3,489.26
MW - 6	*02/15/06*	3,509.76	-	20.35	0.00	3,489.41
MW - 6	03/13/06	3,509.76	-	20.36	0.00	3,489.40
MW - 6	03/22/06	3,509.76	NOT SAMPLED			
MW - 6	*05/23/06*	3,509.76	-	20.32	0.00	3,489.44
MW - 6	07/20/06	3,509.76	-	20.63	0.00	3,489.13
MW - 6	*08/09/06*	3,509.76	-	20.50	0.00	3,489.26
MW - 6	10/18/06	3,509.76	-	20.08	0.00	3,489.68
MW - 6	*11/27/06*	3,509.76	-	20.06	0.00	3,489.70
MW - 6	12/11/06	3,509.76	-	36.60	0.00	3,473.16
MW - 6	01/04/06	3,509.76	-	20.17	0.00	3,489.59
MW - 6	02/16/07	3,509.76	-	19.89	0.00	3,489.87
MW - 6	*03/20/07*	3,509.76	-	19.82	0.00	3,489.94
MW - 6	*06/04/07*	3,509.76	-	19.75	0.00	3,490.01
MW - 6	*08/22/07*	3,509.76	-	20.38	0.00	3,489.38
MW - 6	*11/29/07*	3,509.76	-	20.11	0.00	3,489.65
MW - 6	*02/26/08*	3,509.76	-	20.01	0.00	3,489.75
MW - 6	*05/22/08*	3,509.76	-	19.92	0.00	3,489.84
MW - 6	*08/28/08*	3,509.76	-	20.69	0.00	3,489.07
MW - 6	*11/20/08*	3,509.76	-	20.24	0.00	3,489.52
MW - 6	*02/16/09*	3,509.76	-	20.09	0.00	3,489.67
MW - 6	*05/29/09*	3,509.76	-	20.59	0.00	3,489.17
MW - 6	*08/06/09*	3,509.76	-	21.07	0.00	3,488.69
MW - 6	*11/10/09*	3,509.76	-	21.43	0.00	3,488.33
MW - 6	01/05/09	3,509.76	-	21.32	0.00	3,488.44
MW - 6	*02/04/10*	3,509.76	-	21.24	0.00	3,488.52
MW - 6	*05/06/10*	3,509.76	-	21.28	0.00	3,488.48
MW - 6	*08/05/10*	3,509.76	-	19.83	0.00	3,489.93
MW - 6	*11/04/10*	3,509.76	-	19.82	0.00	3,489.94
MW - 6	*02/09/11*	3,509.76	-	19.81	0.00	3,489.95
MW - 6	*05/03/11*	3,509.76	-	19.81	0.00	3,489.95
MW - 6	*08/02/11*	3,509.76	-	19.80	0.00	3,489.96
MW - 6	*11/21/11*	3,509.76	-	21.47	0.00	3,488.29
MW - 6	*02/13/12*	3,509.76	-	19.75	0.00	3,490.01
MW - 6	*05/24/12*	3,509.76	-	20.56	0.00	3,489.20
MW - 6	*08/07/12*	3,509.76	-	21.00	0.00	3,488.76

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 6	*11/14/12*	3,509.76	-	21.01	0.00	3,488.75
MW - 6	*02/14/13*	3,509.76	-	20.79	0.00	3,488.97
MW - 6	04/04/13	3,509.76	-	20.71	0.00	3,489.05
MW - 6	04/09/13	3,509.76	-	20.69	0.00	3,489.07
MW - 6	04/17/13	3,509.76	-	20.68	0.00	3,489.08
MW - 6	04/23/13	3,509.76	-	20.69	0.00	3,489.07
MW - 6	04/30/13	3,509.76	-	20.69	0.00	3,489.07
MW - 6	05/08/13	3,509.76	-	20.65	0.00	3,489.11
MW - 6	*05/09/13*	3,509.76	-	20.66	0.00	3,489.10
MW - 6	05/14/13	3,509.76	-	20.67	0.00	3,489.09
MW - 6	05/22/13	3,509.76	-	20.66	0.00	3,489.10
MW - 6	05/29/13	3,509.76	-	20.68	0.00	3,489.08
MW - 6	06/11/13	3,509.76	-	20.73	0.00	3,489.03
MW - 6	06/19/13	3,509.76	-	20.76	0.00	3,489.00
MW - 6	06/28/13	3,509.76	-	20.87	0.00	3,488.89
MW - 6	07/01/13	3,509.76	-	20.90	0.00	3,488.86
MW - 6	07/11/13	3,509.76	-	20.99	0.00	3,488.77
MW - 6	07/23/13	3,509.76	-	21.07	0.00	3,488.69
MW - 6	07/30/13	3,509.76	-	21.03	0.00	3,488.73
MW - 6	*08/08/13*	3,509.76	-	20.97	0.00	3,488.79
MW - 6	08/14/13	3,509.76	-	21.03	0.00	3,488.73
MW - 6	08/22/13	3,509.76	-	21.06	0.00	3,488.70
MW - 6	08/27/13	3,509.76	-	21.12	0.00	3,488.64
MW - 6	09/05/13	3,509.76	-	21.19	0.00	3,488.57
MW - 6	09/10/13	3,509.76	-	21.24	0.00	3,488.52
MW - 6	09/17/13	3,509.76	-	21.26	0.00	3,488.50
MW - 6	09/24/13	3,509.76	-	21.25	0.00	3,488.51
MW - 6	10/07/13	3,509.76	-	21.31	0.00	3,488.45
MW - 6	10/23/13	3,509.76	-	21.26	0.00	3,488.50
MW - 6	10/30/13	3,509.76	-	21.23	0.00	3,488.53
MW - 6	11/06/13	3,509.76	-	21.21	0.00	3,488.55
MW - 6	11/14/13	3,509.76	-	21.18	0.00	3,488.58
MW - 6	*11/21/13*	3,509.76	-	21.10	0.00	3,488.66
MW - 6	12/12/13	3,509.76	-	21.06	0.00	3,488.70
MW - 6	12/19/13	3,509.76	-	21.04	0.00	3,488.72
MW - 6	12/24/13	3,509.76	-	21.00	0.00	3,488.76
MW - 6	01/03/14	3,509.76	-	20.95	0.00	3,488.81
MW - 6	01/06/14	3,509.76	-	21.03	0.00	3,488.73
MW - 6	01/13/14	3,509.76	-	20.99	0.00	3,488.77
MW - 6	01/21/14	3,509.76	-	20.98	0.00	3,488.78
MW - 6	01/27/14	3,509.76	-	19.98	0.00	3,489.78

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 6	02/05/14	3,510.17	-	20.91	0.00	3,489.26
MW - 6	02/10/14	3,510.17	-	19.90	0.00	3,490.27
MW - 6	*02/24/14*	3,510.17	-	20.89	0.00	3,489.28
MW - 6	03/17/14	3,510.17	-	20.86	0.00	3,489.31
MW - 6	03/25/14	3,510.17	-	20.84	0.00	3,489.33
MW - 6	04/02/14	3,510.17	-	20.82	0.00	3,489.35
MW - 6	04/16/14	3,510.17	-	20.76	0.00	3,489.41
MW - 6	04/22/14	3,510.17	-	20.75	0.00	3,489.42
MW - 6	04/29/14	3,510.17	-	20.78	0.00	3,489.39
MW - 6	05/06/14	3,510.17	-	20.75	0.00	3,489.42
MW - 6	*05/07/14*	3,510.17	-	20.76	0.00	3,489.41
MW - 6	05/13/14	3,510.17	-	20.76	0.00	3,489.41
MW - 6	05/21/14	3,510.17	-	20.77	0.00	3,489.40
MW - 6	05/29/14	3,510.17	-	20.80	0.00	3,489.37
MW - 6	06/05/14	3,510.17	-	20.87	0.00	3,489.30
MW - 6	06/11/14	3,510.17	-	20.97	0.00	3,489.20
MW - 6	06/16/14	3,510.17	-	21.00	0.00	3,489.17
MW - 6	07/22/14	3,510.17	-	21.36	0.00	3,488.81
MW - 6	*08/16/14*	3,510.17	-	21.44	0.00	3,488.73
MW - 6	10/27/14	3,510.17	-	20.33	0.00	3,489.84
MW - 6	*11/11/14*	3,510.17	-	20.33	0.00	3,489.84
MW - 7	*05/25/04*	3,507.38	-	19.37	0.00	3,488.01
MW - 7	06/03/04	3,507.38	-	19.37	0.00	3,488.01
MW - 7	06/15/04	3,507.38	-	19.40	0.00	3,487.98
MW - 7	07/08/04	3,507.38	-	19.36	0.00	3,488.02
MW - 7	*07/26/04*	3,507.38	-	19.49	0.00	3,487.89
MW - 7	09/10/06	3,507.38	-	19.67	0.00	3,487.71
MW - 7	09/21/04	3,507.38	-	19.75	0.00	3,487.63
MW - 7	*10/04/04*	3,507.38	-	19.25	0.00	3,488.13
MW - 7	10/15/04	3,507.38	-	19.07	0.00	3,488.31
MW - 7	11/09/04	3,507.38	-	19.09	0.00	3,488.29
MW - 7	11/16/04	3,507.38	-	19.10	0.00	3,488.28
MW - 7	12/07/04	3,507.38	-	18.94	0.00	3,488.44
MW - 7	*12/17/04*	3,507.38	-	18.89	0.00	3,488.49
MW - 7	01/07/05	3,507.38	-	18.79	0.00	3,488.59
MW - 7	02/21/05	3,507.38	-	18.57	0.00	3,488.81
MW - 7	*03/29/05*	3,507.38	-	18.23	0.00	3,489.15
MW - 7	04/22/05	3,507.38	-	18.33	0.00	3,489.05
MW - 7	05/06/05	3,507.38	-	18.23	0.00	3,489.15
MW - 7	*05/11/05*	3,507.38	-	18.24	0.00	3,489.14

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 7	07/19/05	3,507.38	-	18.24	0.00	3,489.14
MW - 7	*08/16/05*	3,507.38	-	18.35	0.00	3,489.03
MW - 7	10/05/05	3,507.38	-	18.25	0.00	3,489.13
MW - 7	*11/15/05*	3,507.38	-	18.14	0.00	3,489.24
MW - 7	*02/15/06*	3,507.38	-	18.04	0.00	3,489.34
MW - 7	03/13/06	3,507.38	-	18.05	0.00	3,489.33
MW - 7	03/22/06	3,507.38	NOT SAMPLED			
MW - 7	*05/23/06*	3,507.38	-	18.09	0.00	3,489.29
MW - 7	07/20/06	3,507.38	-	18.45	0.00	3,488.93
MW - 7	*08/09/06*	3,507.38	-	18.27	0.00	3,489.11
MW - 7	10/18/06	3,507.38	-	17.86	0.00	3,489.52
MW - 7	*11/27/06*	3,507.38	-	17.82	0.00	3,489.56
MW - 7	12/11/06	3,507.38	-	29.80	0.00	3,477.58
MW - 7	01/04/07	3,507.38	-	17.77	0.00	3,489.61
MW - 7	02/16/07	3,507.38	-	17.69	0.00	3,489.69
MW - 7	*03/20/07*	3,507.38	-	17.66	0.00	3,489.72
MW - 7	*06/04/07*	3,507.38	-	17.53	0.00	3,489.85
MW - 7	*08/22/07*	3,507.38	-	18.18	0.00	3,489.20
MW - 7	*11/29/07*	3,507.38	-	17.89	0.00	3,489.49
MW - 7	*02/26/08*	3,507.38	-	17.79	0.00	3,489.59
MW - 7	*05/22/08*	3,507.38	-	17.76	0.00	3,489.62
MW - 7	*08/28/08*	3,507.38	-	18.49	0.00	3,488.89
MW - 7	*11/20/08*	3,507.38	-	18.04	0.00	3,489.34
MW - 7	*02/16/09*	3,507.38	-	17.91	0.00	3,489.47
MW - 7	*05/29/09*	3,507.38	-	17.93	0.00	3,489.45
MW - 7	*08/06/09*	3,507.38	-	18.33	0.00	3,489.05
MW - 7	*11/10/09*	3,507.38	-	18.68	0.00	3,488.70
MW - 7	11/13/09	3,507.38	-	18.68	0.00	3,488.70
MW - 7	01/05/10	3,507.38	-	18.60	0.00	3,488.78
MW - 7	*02/04/10*	3,507.38	-	18.53	0.00	3,488.85
MW - 7	*05/06/10*	3,507.38	-	18.54	0.00	3,488.84
MW - 7	*08/05/10*	3,507.38	-	17.64	0.00	3,489.74
MW - 7	*11/04/10*	3,507.38	-	17.66	0.00	3,489.72
MW - 7	*02/09/11*	3,507.38	-	17.66	0.00	3,489.72
MW - 7	*05/03/11*	3,507.38	-	17.65	0.00	3,489.73
MW - 7	05/19/11	3,507.38	-	18.16	0.00	3,489.22
MW - 7	05/25/11	3,507.38	-	18.24	0.00	3,489.14
MW - 7	06/06/11	3,507.38	-	18.29	0.00	3,489.09
MW - 7	06/13/11	3,507.38	-	18.21	0.00	3,489.17
MW - 7	06/27/11	3,507.38	-	18.28	0.00	3,489.10
MW - 7	07/07/11	3,507.38	-	18.42	0.00	3,488.96

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 7	07/14/11	3,507.38	-	18.51	0.00	3,488.87
MW - 7	07/25/11	3,507.38	-	18.54	0.00	3,488.84
MW - 7	*08/02/11*	3,507.38	-	17.64	0.00	3,489.74
MW - 7	08/03/11	3,507.38	-	18.67	0.00	3,488.71
MW - 7	08/18/11	3,507.38	-	18.79	0.00	3,488.59
MW - 7	08/24/11	3,507.38	-	18.84	0.00	3,488.54
MW - 7	08/29/11	3,507.38	-	18.71	0.00	3,488.67
MW - 7	09/07/11	3,507.38	-	18.82	0.00	3,488.56
MW - 7	09/14/11	3,507.38	-	18.84	0.00	3,488.54
MW - 7	10/26/11	3,507.38	-	18.84	0.00	3,488.54
MW - 7	*11/21/11*	3,507.38	-	18.80	0.00	3,488.58
MW - 7	11/28/11	3,507.38	-	18.81	0.00	3,488.57
MW - 7	12/12/11	3,507.38	-	18.80	0.00	3,488.58
MW - 7	01/10/12	3,507.38	-	18.71	0.00	3,488.67
MW - 7	01/17/12	3,507.38	-	18.70	0.00	3,488.68
MW - 7	01/25/12	3,507.38	-	18.69	0.00	3,488.69
MW - 7	02/01/12	3,507.38	-	18.66	0.00	3,488.72
MW - 7	*02/13/12*	3,507.38	-	18.62	0.00	3,488.76
MW - 7	03/07/12	3,507.38	-	18.52	0.00	3,488.86
MW - 7	03/19/12	3,507.38	-	18.49	0.00	3,488.89
MW - 7	03/28/12	3,507.38	-	18.45	0.00	3,488.93
MW - 7	04/04/12	3,507.38	-	18.44	0.00	3,488.94
MW - 7	04/11/12	3,507.38	-	18.43	0.00	3,488.95
MW - 7	04/18/12	3,507.38	-	18.42	0.00	3,488.96
MW - 7	04/25/12	3,507.38	-	18.43	0.00	3,488.95
MW - 7	05/03/12	3,507.38	-	18.47	0.00	3,488.91
MW - 7	05/09/12	3,507.38	-	18.53	0.00	3,488.85
MW - 7	05/16/12	3,507.38	-	18.51	0.00	3,488.87
MW - 7	*05/24/12*	3,507.38	-	18.47	0.00	3,488.91
MW - 7	06/01/12	3,507.38	-	18.47	0.00	3,488.91
MW - 7	06/06/12	3,507.38	-	18.46	0.00	3,488.92
MW - 7	06/14/12	3,507.38	-	18.52	0.00	3,488.86
MW - 7	06/20/12	3,507.38	-	18.52	0.00	3,488.86
MW - 7	06/26/12	3,507.38	-	18.55	0.00	3,488.83
MW - 7	07/11/12	3,507.38	-	18.73	0.00	3,488.65
MW - 7	07/18/12	3,507.38	-	18.80	0.00	3,488.58
MW - 7	08/02/12	3,507.38	-	18.88	0.00	3,488.50
MW - 7	*08/07/12*	3,507.38	-	18.91	0.00	3,488.47
MW - 7	08/17/12	3,507.38	-	18.94	0.00	3,488.44
MW - 7	09/06/12	3,507.38	-	19.02	0.00	3,488.36
MW - 7	09/11/12	3,507.38	-	19.05	0.00	3,488.33

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 7	09/25/12	3,507.38	-	19.09	0.00	3,488.29
MW - 7	10/02/12	3,507.38	-	19.13	0.00	3,488.25
MW - 7	10/09/12	3,507.38	-	19.07	0.00	3,488.31
MW - 7	10/17/12	3,507.38	-	19.01	0.00	3,488.37
MW - 7	10/24/12	3,507.38	-	19.00	0.00	3,488.38
MW - 7	11/01/12	3,507.38	-	18.94	0.00	3,488.44
MW - 7	11/14/12	3,507.38	-	18.89	0.00	3,488.49
MW - 7	*02/14/13*	3,507.38	-	18.72	0.00	3,488.66
MW - 7	03/19/13	3,507.38	-	18.77	0.00	3,488.61
MW - 7	04/04/13	3,507.38	-	18.74	0.00	3,488.64
MW - 7	04/09/13	3,507.38	-	18.64	0.00	3,488.74
MW - 7	04/17/13	3,507.38	-	18.72	0.00	3,488.66
MW - 7	04/23/13	3,507.38	-	18.73	0.00	3,488.65
MW - 7	04/30/13	3,507.38	-	18.72	0.00	3,488.66
MW - 7	05/08/13	3,507.38	-	18.79	0.00	3,488.59
MW - 7	*05/09/13*	3,507.38	-	18.59	0.00	3,488.79
MW - 7	05/14/13	3,507.38	-	18.61	0.00	3,488.77
MW - 7	05/22/13	3,507.38	-	18.77	0.00	3,488.61
MW - 7	05/29/13	3,507.38	-	18.67	0.00	3,488.71
MW - 7	06/05/13	3,507.38	-	18.72	0.00	3,488.66
MW - 7	06/11/13	3,507.38	-	18.68	0.00	3,488.70
MW - 7	06/19/13	3,507.38	-	18.78	0.00	3,488.60
MW - 7	06/28/13	3,507.38	-	18.92	0.00	3,488.46
MW - 7	07/01/13	3,507.38	-	19.07	0.00	3,488.31
MW - 7	07/11/13	3,507.38	-	19.13	0.00	3,488.25
MW - 7	07/23/13	3,507.38	-	19.02	0.00	3,488.36
MW - 7	07/30/13	3,507.38	-	18.97	0.00	3,488.41
MW - 7	*08/08/13*	3,507.38	-	18.89	0.00	3,488.49
MW - 7	08/14/13	3,507.38	-	18.98	0.00	3,488.40
MW - 7	08/22/13	3,507.38	-	19.16	0.00	3,488.22
MW - 7	08/27/13	3,507.38	-	19.10	0.00	3,488.28
MW - 7	09/05/13	3,507.38	-	19.08	0.00	3,488.30
MW - 7	09/10/13	3,507.38	-	19.27	0.00	3,488.11
MW - 7	09/17/13	3,507.38	-	19.28	0.00	3,488.10
MW - 7	09/24/13	3,507.38	-	19.15	0.00	3,488.23
MW - 7	10/07/13	3,507.38	-	19.22	0.00	3,488.16
MW - 7	10/23/13	3,507.38	-	19.12	0.00	3,488.26
MW - 7	10/30/13	3,507.38	-	19.18	0.00	3,488.20
MW - 7	11/06/13	3,507.38	-	19.07	0.00	3,488.31
MW - 7	11/14/13	3,507.38	-	19.01	0.00	3,488.37
MW - 7	*11/21/13*	3,507.38	-	18.98	0.00	3,488.40

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 7	12/12/13	3,507.38	-	18.95	0.00	3,488.43
MW - 7	12/19/13	3,507.38	-	18.93	0.00	3,488.45
MW - 7	12/24/13	3,507.38	-	18.96	0.00	3,488.42
MW - 7	01/03/14	3,507.38	-	19.07	0.00	3,488.31
MW - 7	01/06/14	3,507.38	-	19.03	0.00	3,488.35
MW - 7	01/13/14	3,507.38	-	19.06	0.00	3,488.32
MW - 7	01/21/14	3,507.38	-	18.99	0.00	3,488.39
MW - 7	01/27/14	3,507.38	-	18.99	0.00	3,488.39
MW - 7	02/05/14	3,507.54	-	18.84	0.00	3,488.70
MW - 7	02/10/14	3,507.54	-	18.85	0.00	3,488.69
MW - 7	*02/24/14*	3,507.54	-	18.80	0.00	3,488.74
MW - 7	03/17/14	3,507.54	-	18.80	0.00	3,488.74
MW - 7	03/25/14	3,507.54	-	18.82	0.00	3,488.72
MW - 7	04/02/14	3,507.54	-	18.85	0.00	3,488.69
MW - 7	04/16/14	3,507.54	-	18.68	0.00	3,488.86
MW - 7	04/22/14	3,507.54	-	18.70	0.00	3,488.84
MW - 7	04/29/14	3,507.54	-	18.83	0.00	3,488.71
MW - 7	05/06/14	3,507.54	-	18.79	0.00	3,488.75
MW - 7	*05/07/14*	3,507.54	-	18.84	0.00	3,488.70
MW - 7	05/13/14	3,507.54	-	18.80	0.00	3,488.74
MW - 7	05/21/14	3,507.54	-	18.78	0.00	3,488.76
MW - 7	05/29/14	3,507.54	-	18.80	0.00	3,488.74
MW - 7	06/05/14	3,507.54	-	18.86	0.00	3,488.68
MW - 7	06/11/14	3,507.54	-	19.00	0.00	3,488.54
MW - 7	06/16/14	3,507.54	-	18.96	0.00	3,488.58
MW - 7	06/24/14	3,507.54	-	19.12	0.00	3,488.42
MW - 7	07/01/14	3,507.54	-	19.11	0.00	3,488.43
MW - 7	07/08/14	3,507.54	-	19.28	0.00	3,488.26
MW - 7	07/15/14	3,507.54	-	19.22	0.00	3,488.32
MW - 7	07/22/14	3,507.54	-	19.34	0.00	3,488.20
MW - 7	07/23/14	3,507.54	-	19.34	0.00	3,488.20
MW - 7	07/31/14	3,507.54	-	19.39	0.00	3,488.15
MW - 7	08/07/14	3,507.54	-	19.23	0.00	3,488.31
MW - 7	08/13/14	3,507.54	-	19.29	0.00	3,488.25
MW - 7	*08/16/14*	3,507.54	-	24.60	0.00	3,482.94
MW - 7	08/20/14	3,507.54	-	19.33	0.00	3,488.21
MW - 7	08/27/14	3,507.54	-	19.35	0.00	3,488.19
MW - 7	09/26/14	3,507.54	-	17.79	0.00	3,489.75
MW - 7	10/01/14	3,507.54	-	17.92	0.00	3,489.62
MW - 7	10/07/14	3,507.54	-	17.93	0.00	3,489.61
MW - 7	10/14/14	3,507.54	-	18.01	0.00	3,489.53

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 7	10/20/14	3,507.54	-	18.14	0.00	3,489.40
MW - 7	10/27/14	3,507.54	-	18.11	0.00	3,489.43
MW - 7	10/28/14	3,507.54	-	18.07	0.00	3,489.47
MW - 7	*11/11/14*	3,507.54	-	18.03	0.00	3,489.51
MW - 7	11/19/14	3,507.54	-	18.97	0.00	3,488.57
MW - 7	12/04/14	3,507.54	-	18.09	0.00	3,489.45
MW - 7	12/08/14	3,507.54	-	18.10	0.00	3,489.44
MW - 7	12/15/14	3,507.54	-	18.24	0.00	3,489.30
MW - 7	12/22/14	3,507.54	-	18.28	0.00	3,489.26
MW - 7	12/29/14	3,507.54	-	18.19	0.00	3,489.35
MW - 7	01/05/14	3,507.54	-	18.20	0.00	3,489.34
MW - 8	03/16/06	3,512.14	WELL INSTALLED 3/16/2006			N/A
MW - 8	*03/22/06*	3,512.14	-	22.87	0.00	3,489.27
MW - 8	*05/23/06*	3,512.14	-	23.23	0.00	3,488.91
MW - 8	07/20/06	3,512.14	-	23.62	0.00	3,488.52
MW - 8	*08/09/06*	3,512.14	-	23.48	0.00	3,488.66
MW - 8	10/18/06	3,512.14	-	23.04	0.00	3,489.10
MW - 8	*11/27/06*	3,512.14	-	23.00	0.00	3,489.14
MW - 8	12/11/06	3,512.14	-	23.00	0.00	3,489.14
MW - 8	01/04/07	3,512.14	-	22.92	0.00	3,489.22
MW - 8	02/16/07	3,512.14	-	22.81	0.00	3,489.33
MW - 8	*03/20/07*	3,512.14	-	22.77	0.00	3,489.37
MW - 8	*06/04/07*	3,512.14	-	22.66	0.00	3,489.48
MW - 8	*08/22/07*	3,512.14	-	23.34	0.00	3,488.80
MW - 8	*11/29/07*	3,512.14	-	23.04	0.00	3,489.10
MW - 8	*02/26/08*	3,512.14	-	22.88	0.00	3,489.26
MW - 8	*05/22/08*	3,512.14	-	22.84	0.00	3,489.30
MW - 8	*08/28/08*	3,512.14	-	23.58	0.00	3,488.56
MW - 8	*11/20/08*	3,512.14	-	23.15	0.00	3,488.99
MW - 8	*02/16/09*	3,512.14	-	22.98	0.00	3,489.16
MW - 8	*05/29/09*	3,512.14	-	22.92	0.00	3,489.22
MW - 8	*08/06/09*	3,512.14	-	23.41	0.00	3,488.73
MW - 8	*11/10/09*	3,512.14	-	23.79	0.00	3,488.35
MW - 8	01/05/10	3,512.14	-	23.66	0.00	3,488.48
MW - 8	*02/04/10*	3,512.14	-	23.58	0.00	3,488.56
MW - 8	*05/06/10*	3,512.14	-	23.54	0.00	3,488.60
MW - 8	*08/05/10*	3,512.14	-	22.78	0.00	3,489.36
MW - 8	*11/04/10*	3,512.14	-	22.80	0.00	3,489.34
MW - 8	*02/09/11*	3,512.14	-	22.78	0.00	3,489.36
MW - 8	*05/03/11*	3,512.14	-	22.77	0.00	3,489.37

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 8	*08/02/11*	3,512.14	-	22.78	0.00	3,489.36
MW - 8	*11/21/11*	3,512.14	-	23.83	0.00	3,488.31
MW - 8	*02/13/12*	3,512.14	-	23.64	0.00	3,488.50
MW - 8	*05/24/12*	3,512.14	-	23.46	0.00	3,488.68
MW - 8	*08/07/12*	3,512.14	-	23.90	0.00	3,488.24
MW - 8	*11/14/12*	3,512.14	-	23.92	0.00	3,488.22
MW - 8	*02/14/13*	3,512.14	-	23.71	0.00	3,488.43
MW - 8	*05/09/13*	3,512.14	-	23.56	0.00	3,488.58
MW - 8	*08/08/13*	3,512.14	-	23.89	0.00	3,488.25
MW - 8	*11/21/13*	3,512.14	-	24.02	0.00	3,488.12
MW - 8	*02/24/14*	3,513.26	-	23.79	0.00	3,489.47
MW - 8	*05/07/14*	3,513.26	-	23.65	0.00	3,489.61
MW - 8	07/22/14	3,513.26	-	24.26	0.00	3,489.00
MW - 8	*08/16/14*	3,513.26	-	24.36	0.00	3,488.90
MW - 8	10/27/14	3,513.26	-	23.36	0.00	3,489.90
MW - 8	*11/11/14*	3,513.26	-	23.34	0.00	3,489.92
MW - 9	03/16/06	3,509.34	WELL INSTALLED 3/16/2006			N/A
MW - 9	*03/22/06*	3,509.34	-	21.07	0.00	3,488.27
MW - 9	*05/23/06*	3,509.34	-	21.42	0.00	3,487.92
MW - 9	07/20/06	3,509.34	-	21.81	0.00	3,487.53
MW - 9	*08/09/06*	3,509.34	-	21.61	0.00	3,487.73
MW - 9	10/18/06	3,509.34	-	21.31	0.00	3,488.03
MW - 9	*11/27/06*	3,509.34	-	21.16	0.00	3,488.18
MW - 9	12/11/06	3,509.34	-	21.23	0.00	3,488.11
MW - 9	01/04/07	3,509.34	-	21.11	0.00	3,488.23
MW - 9	02/16/07	3,509.34	-	20.99	0.00	3,488.35
MW - 9	*03/20/07*	3,509.34	-	20.94	0.00	3,488.40
MW - 9	*06/04/07*	3,509.34	-	20.87	0.00	3,488.47
MW - 9	*08/22/07*	3,509.34	-	21.50	0.00	3,487.84
MW - 9	*11/29/07*	3,509.34	-	21.19	0.00	3,488.15
MW - 9	*02/26/08*	3,509.34	-	21.08	0.00	3,488.26
MW - 9	*05/22/08*	3,509.34	-	21.10	0.00	3,488.24
MW - 9	*08/28/08*	3,509.34	-	21.74	0.00	3,487.60
MW - 9	*11/20/08*	3,509.34	-	21.36	0.00	3,487.98
MW - 9	*02/16/09*	3,509.34	-	21.12	0.00	3,488.22
MW - 9	*05/29/09*	3,509.34	-	21.17	0.00	3,488.17
MW - 9	*08/06/09*	3,509.34	-	21.59	0.00	3,487.75
MW - 9	*11/10/09*	3,509.34	-	21.95	0.00	3,487.39
MW - 9	01/05/10	3,509.34	-	21.88	0.00	3,487.46

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 9	*02/04/10*	3,509.34	-	21.83	0.00	3,487.51
MW - 9	*05/06/10*	3,509.34	-	21.32	0.00	3,488.02
MW - 9	*08/05/10*	3,509.34	-	21.06	0.00	3,488.28
MW - 9	*11/04/10*	3,509.34	-	21.09	0.00	3,488.25
MW - 9	*02/09/11*	3,509.34	-	21.06	0.00	3,488.28
MW - 9	*05/03/11*	3,509.34	-	21.04	0.00	3,488.30
MW - 9	*08/02/11*	3,509.34	-	21.02	0.00	3,488.32
MW - 9	*11/21/11*	3,509.34	-	22.05	0.00	3,487.29
MW - 9	*02/13/12*	3,509.34	-	21.92	0.00	3,487.42
MW - 9	*05/24/12*	3,509.34	-	21.75	0.00	3,487.59
MW - 9	*08/07/12*	3,509.34	-	22.19	0.00	3,487.15
MW - 9	*11/14/12*	3,509.34	-	22.19	0.00	3,487.15
MW - 9	*02/14/13*	3,509.34	-	27.01	0.00	3,482.33
MW - 9	*05/09/13*	3,509.34	-	21.89	0.00	3,487.45
MW - 9	*08/08/13*	3,509.34	-	22.18	0.00	3,487.16
MW - 9	*11/21/13*	3,509.34	-	22.29	0.00	3,487.05
MW - 9	*02/24/14*	3,510.47	-	22.10	0.00	3,488.37
MW - 9	*05/07/14*	3,510.47	-	21.97	0.00	3,488.50
MW - 9	07/22/14	3,510.47	-	22.53	0.00	3,487.94
MW - 9	*08/16/14*	3,510.47	-	22.59	0.00	3,487.88
MW - 9	10/27/14	3,510.47	-	21.33	0.00	3,489.14
MW - 9	*11/11/14*	3,510.47	-	21.29	0.00	3,489.18
MW - 10	03/16/06	3,506.66	WELL INSTALLED 3/16/2006			N/A
MW - 10	*03/22/06*	3,506.66	-	18.22	0.00	3,488.44
MW - 10	*05/23/06*	3,506.66	-	18.57	0.00	3,488.09
MW - 10	07/20/06	3,506.66	-	18.98	0.00	3,487.68
MW - 10	*08/09/06*	3,506.66	-	18.78	0.00	3,487.88
MW - 10	10/18/06	3,506.66	-	18.37	0.00	3,488.29
MW - 10	*11/27/06*	3,506.66	-	18.30	0.00	3,488.36
MW - 10	12/11/06	3,506.66	-	18.33	0.00	3,488.33
MW - 10	01/04/07	3,506.66	-	18.28	0.00	3,488.38
MW - 10	02/16/07	3,506.66	-	18.16	0.00	3,488.50
MW - 10	*03/20/07*	3,506.66	-	18.10	0.00	3,488.56
MW - 10	*06/04/07*	3,506.66	-	18.04	0.00	3,488.62
MW - 10	*08/22/07*	3,506.66	-	18.73	0.00	3,487.93
MW - 10	*11/29/07*	3,506.66	-	18.40	0.00	3,488.26
MW - 10	*02/26/08*	3,506.66	-	18.30	0.00	3,488.36
MW - 10	*05/22/08*	3,506.66	-	18.28	0.00	3,488.38
MW - 10	*08/28/08*	3,506.66	-	19.01	0.00	3,487.65

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 10	*11/20/08*	3,506.66	-	18.57	0.00	3,488.09
MW - 10	*02/16/09*	3,506.66	-	18.42	0.00	3,488.24
MW - 10	*05/29/09*	3,506.66	-	18.47	0.00	3,488.19
MW - 10	*08/06/09*	3,506.66	-	18.84	0.00	3,487.82
MW - 10	*11/10/09*	3,506.66	-	19.20	0.00	3,487.46
MW - 10	01/05/10	3,506.66	-	19.12	0.00	3,487.54
MW - 10	*02/04/10*	3,506.66	-	19.05	0.00	3,487.61
MW - 10	*05/06/10*	3,506.66	-	19.16	0.00	3,487.50
MW - 10	*08/05/10*	3,506.66	-	18.17	0.00	3,488.49
MW - 10	*11/04/10*	3,506.66	-	18.16	0.00	3,488.50
MW - 10	*02/09/11*	3,506.66	-	18.16	0.00	3,488.50
MW - 10	*05/03/11*	3,506.66	-	18.13	0.00	3,488.53
MW - 10	05/19/11	3,506.66	-	18.70	0.00	3,487.96
MW - 10	05/25/11	3,506.66	-	18.78	0.00	3,487.88
MW - 10	06/06/11	3,506.66	-	18.84	0.00	3,487.82
MW - 10	06/13/11	3,506.66	-	18.79	0.00	3,487.87
MW - 10	06/27/11	3,506.66	-	18.82	0.00	3,487.84
MW - 10	07/07/11	3,506.66	-	19.02	0.00	3,487.64
MW - 10	07/14/11	3,506.66	-	19.09	0.00	3,487.57
MW - 10	07/25/11	3,506.66	-	19.18	0.00	3,487.48
MW - 10	*08/02/11*	3,506.66	-	18.13	0.00	3,488.53
MW - 10	08/03/11	3,506.66	-	19.22	0.00	3,487.44
MW - 10	08/18/11	3,506.66	-	19.38	0.00	3,487.28
MW - 10	08/24/11	3,506.66	-	19.47	0.00	3,487.19
MW - 10	08/29/11	3,506.66	-	19.30	0.00	3,487.36
MW - 10	09/07/11	3,506.66	-	19.38	0.00	3,487.28
MW - 10	09/14/11	3,506.66	-	19.38	0.00	3,487.28
MW - 10	10/26/11	3,506.66	-	19.38	0.00	3,487.28
MW - 10	*11/21/11*	3,506.66	-	19.30	0.00	3,487.36
MW - 10	11/28/11	3,506.66	-	19.32	0.00	3,487.34
MW - 10	12/12/11	3,506.66	-	19.33	0.00	3,487.33
MW - 10	01/10/12	3,506.66	-	19.23	0.00	3,487.43
MW - 10	01/17/12	3,506.66	-	19.23	0.00	3,487.43
MW - 10	01/25/12	3,506.66	-	19.20	0.00	3,487.46
MW - 10	02/01/12	3,506.66	-	19.17	0.00	3,487.49
MW - 10	*02/13/12*	3,506.66	-	19.15	0.00	3,487.51
MW - 10	03/07/12	3,506.66	-	19.05	0.00	3,487.61
MW - 10	03/19/12	3,506.66	-	19.00	0.00	3,487.66
MW - 10	03/28/12	3,506.66	-	18.57	0.00	3,488.09
MW - 10	04/04/12	3,506.66	-	18.96	0.00	3,487.70
MW - 10	04/11/12	3,506.66	-	18.95	0.00	3,487.71

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 10	04/18/12	3,506.66	-	18.95	0.00	3,487.71
MW - 10	04/25/12	3,506.66	-	18.99	0.00	3,487.67
MW - 10	05/03/12	3,506.66	-	19.03	0.00	3,487.63
MW - 10	05/09/12	3,506.66	-	19.07	0.00	3,487.59
MW - 10	05/16/12	3,506.66	-	19.05	0.00	3,487.61
MW - 10	*05/24/12*	3,506.66	-	19.00	0.00	3,487.66
MW - 10	06/01/12	3,506.66	-	19.01	0.00	3,487.65
MW - 10	06/06/12	3,506.66	-	19.01	0.00	3,487.65
MW - 10	06/14/12	3,506.66	-	19.08	0.00	3,487.58
MW - 10	06/20/12	3,506.66	-	19.06	0.00	3,487.60
MW - 10	06/26/12	3,506.66	-	19.11	0.00	3,487.55
MW - 10	07/11/12	3,506.66	-	19.26	0.00	3,487.40
MW - 10	07/18/12	3,506.66	-	19.36	0.00	3,487.30
MW - 10	08/02/12	3,506.66	-	19.43	0.00	3,487.23
MW - 10	*08/07/12*	3,506.66	-	19.40	0.00	3,487.26
MW - 10	08/17/12	3,506.66	-	19.50	0.00	3,487.16
MW - 10	09/06/12	3,506.66	-	19.57	0.00	3,487.09
MW - 10	09/11/12	3,506.66	-	19.59	0.00	3,487.07
MW - 10	09/25/12	3,506.66	-	19.65	0.00	3,487.01
MW - 10	10/02/12	3,506.66	-	19.66	0.00	3,487.00
MW - 10	10/09/12	3,506.66	-	19.59	0.00	3,487.07
MW - 10	10/17/12	3,506.66	-	19.53	0.00	3,487.13
MW - 10	10/24/12	3,506.66	-	19.57	0.00	3,487.09
MW - 10	11/01/12	3,506.66	-	19.47	0.00	3,487.19
MW - 10	11/14/12	3,506.66	-	19.42	0.00	3,487.24
MW - 10	*02/14/13*	3,506.66	-	19.26	0.00	3,487.40
MW - 10	03/19/13	3,506.66	-	19.21	0.00	3,487.45
MW - 10	04/04/13	3,506.66	-	19.18	0.00	3,487.48
MW - 10	04/09/13	3,506.66	-	19.17	0.00	3,487.49
MW - 10	04/17/13	3,506.66	-	19.16	0.00	3,487.50
MW - 10	04/23/13	3,506.66	-	19.17	0.00	3,487.49
MW - 10	04/30/13	3,506.66	-	19.15	0.00	3,487.51
MW - 10	05/08/13	3,506.66	-	19.14	0.00	3,487.52
MW - 10	*05/09/13*	3,506.66	-	19.14	0.00	3,487.52
MW - 10	05/14/13	3,506.66	-	19.15	0.00	3,487.51
MW - 10	05/22/13	3,506.66	-	19.14	0.00	3,487.52
MW - 10	05/29/13	3,506.66	-	19.15	0.00	3,487.51
MW - 10	06/05/13	3,506.66	-	19.21	0.00	3,487.45
MW - 10	06/11/13	3,506.66	-	19.22	0.00	3,487.44
MW - 10	06/19/13	3,506.66	-	19.22	0.00	3,487.44
MW - 10	06/28/13	3,506.66	-	19.36	0.00	3,487.30

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 10	07/01/13	3,506.66	-	19.38	0.00	3,487.28
MW - 10	07/11/13	3,506.66	-	19.50	0.00	3,487.16
MW - 10	07/23/13	3,506.66	-	19.48	0.00	3,487.18
MW - 10	07/30/13	3,506.66	-	19.47	0.00	3,487.19
MW - 10	*08/08/13*	3,506.66	-	19.44	0.00	3,487.22
MW - 10	08/14/13	3,506.66	-	19.47	0.00	3,487.19
MW - 10	08/22/13	3,506.66	-	19.54	0.00	3,487.12
MW - 10	08/27/13	3,506.66	-	19.58	0.00	3,487.08
MW - 10	09/05/13	3,506.66	-	19.63	0.00	3,487.03
MW - 10	09/10/13	3,506.66	-	19.67	0.00	3,486.99
MW - 10	09/17/13	3,506.66	-	19.69	0.00	3,486.97
MW - 10	09/24/13	3,506.66	-	19.69	0.00	3,486.97
MW - 10	10/07/13	3,506.66	-	19.74	0.00	3,486.92
MW - 10	10/23/13	3,506.66	-	19.62	0.00	3,487.04
MW - 10	10/30/13	3,506.66	-	19.60	0.00	3,487.06
MW - 10	11/06/13	3,506.66	-	19.58	0.00	3,487.08
MW - 10	11/14/13	3,506.66	-	19.55	0.00	3,487.11
MW - 10	*11/21/13*	3,506.66	-	19.53	0.00	3,487.13
MW - 10	12/12/13	3,506.66	-	19.49	0.00	3,487.17
MW - 10	12/19/13	3,506.66	-	19.47	0.00	3,487.19
MW - 10	12/24/13	3,506.66	-	19.45	0.00	3,487.21
MW - 10	01/03/14	3,506.66	-	19.43	0.00	3,487.23
MW - 10	01/06/14	3,506.66	-	19.48	0.00	3,487.18
MW - 10	01/13/14	3,506.66	-	19.46	0.00	3,487.20
MW - 10	01/21/14	3,506.66	-	19.45	0.00	3,487.21
MW - 10	01/27/14	3,506.66	-	19.45	0.00	3,487.21
MW - 10	02/05/14	3,507.79	-	19.38	0.00	3,488.41
MW - 10	02/10/14	3,507.79	-	19.38	0.00	3,488.41
MW - 10	*02/24/14*	3,507.79	-	19.34	0.00	3,488.45
MW - 10	03/17/14	3,507.79	-	19.30	0.00	3,488.49
MW - 10	03/25/14	3,507.79	-	19.31	0.00	3,488.48
MW - 10	04/02/14	3,507.79	-	19.29	0.00	3,488.50
MW - 10	04/16/14	3,507.79	-	19.23	0.00	3,488.56
MW - 10	04/22/14	3,507.79	-	19.23	0.00	3,488.56
MW - 10	04/29/14	3,507.79	-	19.24	0.00	3,488.55
MW - 10	05/06/14	3,507.79	-	19.22	0.00	3,488.57
MW - 10	*05/07/14*	3,507.79	-	19.22	0.00	3,488.57
MW - 10	05/13/14	3,507.79	-	19.24	0.00	3,488.55
MW - 10	05/29/14	3,507.79	-	19.29	0.00	3,488.50
MW - 10	06/05/14	3,507.79	-	19.36	0.00	3,488.43
MW - 10	06/11/14	3,507.79	-	19.50	0.00	3,488.29

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 10	06/16/14	3,507.79	-	19.51	0.00	3,488.28
MW - 10	06/24/14	3,507.79	-	19.62	0.00	3,488.17
MW - 10	07/01/14	3,507.79	-	19.69	0.00	3,488.10
MW - 10	07/08/14	3,507.79	-	19.68	0.00	3,488.11
MW - 10	07/15/14	3,507.79	-	19.77	0.00	3,488.02
MW - 10	07/22/14	3,507.79	-	19.80	0.00	3,487.99
MW - 10	07/23/14	3,507.79	-	19.80	0.00	3,487.99
MW - 10	07/31/14	3,507.79	-	19.86	0.00	3,487.93
MW - 10	08/07/14	3,507.79	-	19.85	0.00	3,487.94
MW - 10	08/13/14	3,507.79	-	19.87	0.00	3,487.92
MW - 10	*08/16/14*	3,507.79	-	19.86	0.00	3,487.93
MW - 10	08/20/14	3,507.79	-	19.90	0.00	3,487.89
MW - 10	08/27/14	3,507.79	-	19.93	0.00	3,487.86
MW - 10	09/24/14	3,507.79	-	17.19	0.00	3,490.60
MW - 10	10/01/14	3,507.79	-	17.77	0.00	3,490.02
MW - 10	10/07/14	3,507.79	-	18.10	0.00	3,489.69
MW - 10	10/14/14	3,507.79	-	18.31	0.00	3,489.48
MW - 10	10/20/14	3,507.79	-	18.42	0.00	3,489.37
MW - 10	10/27/14	3,507.79	-	18.50	0.00	3,489.29
MW - 10	10/28/04	3,507.79	-	18.55	0.00	3,489.24
MW - 10	*11/11/14*	3,507.79	-	18.37	0.00	3,489.42
MW - 10	11/19/14	3,507.79	-	18.43	0.00	3,489.36
MW - 10	12/04/14	3,507.79	-	18.57	0.00	3,489.22
MW - 10	12/08/14	3,507.79	-	18.60	0.00	3,489.19
MW - 10	12/15/14	3,507.79	-	18.63	0.00	3,489.16
MW - 10	12/22/14	3,507.79	-	18.62	0.00	3,489.17
MW - 10	12/29/14	3,507.79	-	18.64	0.00	3,489.15
MW - 11	*08/22/07*	-	-	20.71	0.00	-
MW - 11	*11/29/07*	-	-	20.35	0.00	-
MW - 11	02/26/08	-	-	20.24	0.00	-
MW - 11	*05/22/08*	-	-	20.17	0.00	-
MW - 11	*08/28/08*	-	-	20.85	0.00	-
MW - 11	*11/20/08*	-	-	20.51	0.00	-
MW - 11	*02/16/09*	-	-	20.36	0.00	-
MW - 11	*05/29/09*	-	-	20.46	0.00	-
MW - 11	*08/06/09*	-	-	20.83	0.00	-
MW - 11	*11/10/09*	-	-	21.14	0.00	-
MW - 11	01/05/10	-	-	21.05	0.00	-
MW - 11	*02/04/10*	-	-	20.98	0.00	-
MW - 11	*05/06/10*	-	-	21.06	0.00	-

TABLE 1

Historic Ground Water Elevation Data

Plains Marketing, L.P.
34 Junction to Lea
Plains SRS #2002-10286

Well Number	Date Measured	Casing Well Elevation	Depth To Product	Depth To Water	PSH Thickness	Corrected Groundwater Elevation
MW - 11	*08/05/10*	-	-	21.12	0.00	-
MW - 11	*11/04/10*	-	-	21.15	0.00	-
MW - 11	*02/09/11*	-	-	21.15	0.00	-
MW - 11	*05/03/11*	-	-	21.15	0.00	-
MW - 11	*08/02/11*	-	-	21.12	0.00	-
MW - 11	*11/21/11*	-	-	21.27	0.00	-
MW - 11	*02/13/12*	-	-	21.09	0.00	-
MW - 11	*05/24/12*	-	-	20.96	0.00	-
MW - 11	*08/07/12*	-	-	21.40	0.00	-
MW - 11	*11/14/12*	-	-	21.39	0.00	-
MW - 11	*02/14/13*	Damaged				
MW - 11	*2/26/2013**	-	-	17.71	0.00	-
MW - 11	*05/09/13*	Damaged				
MW - 11	*08/08/13*	Damaged				
MW - 11	*11/21/13*	Damaged				
MW - 11	02/04/14	Plugged and Abandoned				
MW - 11A	*02/24/14*	3,509.52	-	21.93	0.00	3,487.59
MW - 11A	*05/07/14*	3,509.52	-	21.83	0.00	3,487.69
MW - 11A	07/22/14	3,509.52	-	22.50	0.00	3,487.02
MW - 11A	*08/16/14*	3,509.52	-	22.56	0.00	3,486.96
MW - 11A	10/27/14	3,509.52	-	21.25	0.00	3,488.27
MW - 11A	*11/11/14*	3,509.52	-	21.24	0.00	3,488.28
MW - 12	*02/24/14*	3,508.49	-	20.63	0.00	3,487.86
MW - 12	*05/07/14*	3,508.49	-	20.51	0.00	3,487.98
MW - 12	07/22/14	3,508.49	-	21.12	0.00	3,487.37
MW - 12	*08/16/14*	3,508.49	-	21.20	0.00	3,487.29
MW - 12	10/27/14	3,508.49	-	19.80	0.00	3,488.69
MW - 12	*11/11/14*	3,508.49	-	19.73	0.00	3,488.76

*MW-11 was damaged during backfill activities at TNM 97-17 during the the 4th quarter of 2012. NOVA was unable to retrieve a sample during the sampling event on 2/14/13. Attempted to resampled MW-11 on 2/26/13 and suceeded. After the 1st quarter sampling event, the well became dry and was unable to sample the 2nd, 3rd, and 4th quarters.

Historic Table 2

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

.

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Guideline		**0.01 (mg/L)**	**0.75 (mg/L)**	**0.75 (mg/L)**	**0.62 (mg/L)**	
MW - 1	02/27/03	0.0018	0.11	**0.8760**	**0.7560**	
MW - 1	05/05/04	**1.070**	0.00492	0.5830	0.2324	
MW - 1	07/26/04	**1.260**	0.00236	**0.8980**	0.5995	
MW - 1	10/04/04	**1.090**	0.00243	**0.7850**	0.5090	
MW - 1	12/17/04	**2.960**	0.00777	**1.520**	**0.8910**	
MW - 1	03/29/05	**2.720**	<0.005	**1.880**	0.3314	
MW - 1	05/11/05	**2.030**	<0.005	**1.780**	0.2630	
MW - 1	08/16/05	**3.290**	<0.005	**2.390**	0.4910	
MW - 1	11/15/05	**1.240**	<0.001	**1.340**	0.1140	
MW - 1	02/15/06	**1.390**	<0.001	**1.290**	<0.002	
MW - 1	05/23/06	**1.720**	0.00294	**1.530**	0.3379	
MW - 1	08/09/06	**1.090**	<0.01	0.694	0.1220	
MW - 1	11/27/06	**1.000**	<0.01	0.733	0.1250	
MW - 1	03/20/07	**0.720**	<0.01	0.730	0.118	
MW - 1	06/04/07	**0.346**	<0.05	0.568	<0.05	
MW - 1	08/22/07	**0.819**	<0.05	**1.040**	0.197	
MW - 1	11/29/07	**0.803**	0.0109	**0.977**	0.230	
MW - 1	02/26/08	**0.870**	<0.01	**0.770**	0.195	
MW - 1	05/22/08	**0.463**	<0.0100	0.485	0.102	
MW - 1	08/28/08	**0.504**	<0.005	0.490	0.113	
MW - 1	11/20/08	**0.585**	<0.005	0.468	0.142	
MW - 1	02/16/09	**0.303**	<0.005	0.216	0.0463	
MW - 1	05/29/09	**0.421**	<0.001	0.444	0.1640	
MW - 1	08/06/09	**0.304**	<0.001	0.283	0.1030	
MW - 1	11/10/09	**0.307**	<0.005	0.262	0.0896	
MW - 1	02/04/10	**0.248**	<0.005	0.298	0.1120	
MW - 1	05/06/10	**0.364**	<0.005	0.236	0.0995	
MW - 1	08/05/10	**0.253**	<0.050	0.125	<0.0500	
MW - 1	11/04/10	**0.551**	<0.050	0.409	0.4640	
MW - 1	02/09/11	**0.967**	<0.0500	**1.170**	**1.2800**	
MW - 1	05/03/11	**0.833**	<0.0500	**0.970**	0.4070	
MW - 1	08/02/11	**0.940**	<0.0500	**0.963**	**1.1500**	
MW - 1	11/21/11	**0.282**	<0.005	0.171	0.0934	
MW - 1	02/13/12	**0.427**	<0.005	0.296	0.2300	
MW - 1	05/24/12	**0.398**	<0.050	0.442	0.2960	
MW - 1	08/07/12	**0.469**	<0.050	0.511	0.2180	
MW - 1	11/14/12	**0.449**	<0.005	0.563	0.2570	
MW - 1	02/14/13	**0.409**	<0.00500	0.585	0.210	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

.

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Guideline		**0.01 (mg/L)**	**0.75 (mg/L)**	**0.75 (mg/L)**	**0.62 (mg/L)**	
MW - 1	05/09/13	**0.467**	<0.00500	0.496	0.231	
MW - 1	08/08/13	**0.520**	<0.00500	0.645	0.261	
MW - 1	11/21/13	**0.475**	<0.00500	0.524	0.238	
MW - 1	02/24/14	**0.461**	<0.0500	0.582	0.193	
MW - 1	05/07/14	**0.410**	<0.0500	0.311	0.165	
MW - 1	08/16/14	**0.446**	<0.0500	0.553	0.266	
MW - 1	11/11/14	**0.380**	<0.0500	0.474	0.203	
MW - 2	02/27/03	**2.3900**	0.474	**0.8070**	**0.876**	
MW - 2	05/05/04	**3.4300**	0.0104	0.7460	0.32318	
MW - 2	07/26/04	**6.0200**	0.00342	**1.7400**	**0.9257**	
MW - 2	10/04/04	**2.3400**	<0.005	**1.3800**	0.261	
MW - 2	12/17/04	**1.8800**	<0.002	0.5740	0.16109	
MW - 2	03/29/05	**2.6600**	0.0273	**1.0800**	**0.656**	
MW - 2	05/11/05	**1.0600**	0.00253	**0.8130**	0.0768	
MW - 2	08/16/05	**1.7400**	<0.002	**0.8700**	0.233	
MW - 2	11/15/05	**0.0668**	<0.001	0.0729	0.0113	
MW - 2	02/15/06	**0.0337**	<0.001	0.1470	0.0341	
MW - 2	05/23/06	**1.5300**	0.00229	0.3810	0.19861	
MW - 2	08/09/06	**1.4600**	<0.01	0.3260	0.178	
MW - 2	11/27/06	**0.3900**	<0.005	0.1060	0.0518	
MW - 2	03/20/07	**0.5600**	<0.001	0.7170	0.4480	
MW - 2	06/04/07	**<0.1**	<0.1	0.4620	<0.01	
MW - 2	08/22/07	**0.5200**	<0.05	0.4500	0.2160	
MW - 2	11/29/07	**0.3980**	<0.01	0.3160	0.1890	
MW - 2	02/26/08	**0.4080**	<0.01	0.1830	0.1500	
MW - 2	05/22/08	**0.1540**	<0.010	0.1440	0.1240	
MW - 2	08/28/08	**0.1530**	<0.001	0.0899	0.0691	
MW - 2	11/20/08	**0.0546**	<0.005	0.0227	0.0220	
MW - 2	02/16/09	**0.0240**	<0.005	<0.005	<0.005	
MW - 2	05/29/09	**0.2830**	<0.001	0.272	0.1640	
MW - 2	08/06/09	**0.4170**	0.0038	0.184	0.1710	
MW - 2	11/10/09	**0.3050**	0.0013	0.0978	0.0867	
MW - 2	02/04/10	**0.3070**	<0.001	0.104	0.0867	
MW - 2	05/06/10	**0.3610**	0.0025	0.0917	0.0930	
MW - 2	08/05/10	**0.3240**	<0.050	0.111	0.0762	
MW - 2	11/04/10	**0.5140**	<0.0500	0.258	<0.0500	
MW - 2	02/09/11	**1.0800**	<0.0500	0.671	**1.2500**	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

.

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Guideline		**0.01 (mg/L)**	**0.75 (mg/L)**	**0.75 (mg/L)**	**0.62 (mg/L)**	
MW - 2	05/03/11	**0.5340**	<0.0500	0.143	<0.0500	
MW - 2	08/02/11	**0.7760**	<0.0500	0.455	**0.9280**	
MW - 2	11/21/11	**0.2820**	<0.005	0.171	0.0934	
MW - 2	02/13/12	**0.1570**	<0.005	0.0882	<0.005	
MW - 2	05/24/12	**0.1860**	<0.050	0.128	0.0986	
MW - 2	08/07/12	**1.1000**	<0.050	0.368	0.1050	
MW - 2	11/14/12	**0.4270**	<0.005	0.191	0.1100	
MW - 2	02/14/13	**0.475**	<0.0100	0.202	0.119	
MW - 2	05/09/13	**0.224**	<0.00500	0.101	0.0644	
MW - 2	08/08/13	**0.632**	<0.00500	0.241	0.150	
MW - 2	11/21/13	**0.360**	<0.00100	0.142	0.114	
MW - 2	02/24/14	**0.687**	<0.100	0.176	<0.300	
MW - 2	05/07/14	**0.319**	<0.0500	0.0937	<0.150	
MW - 2	08/16/14	**0.274**	<0.0500	<0.0500	<0.0500	
MW - 2	11/11/14	**0.434**	<0.0500	0.0963	0.0944	
MW - 3	02/27/03	Not Sampled Due to PSH in Well				
MW - 3	05/05/04	0.0017	<0.001	<0.001	<0.002	
MW - 3	07/26/04	Not Sampled Due to PSH in Well				
MW - 3	10/04/04	**1.400**	0.421	0.7300	**0.9650**	
MW - 3	12/17/04	**2.510**	0.49	**0.9720**	**0.6376**	
MW - 3	03/29/05	**6.980**	0.729	**1.3700**	**0.8300**	
MW - 3	05/11/05	Not Sampled Due to PSH in Well				
MW - 3	08/16/05	**1.260**	0.101	0.4700	0.2875	
MW - 3	11/15/05	**1.880**	0.0327	**0.8420**	0.2322	
MW - 3	02/15/06	**1.600**	0.0265	0.7150	0.2420	
MW - 3	05/23/06	**3.600**	<0.1	0.7030	0.4920	
MW - 3	08/09/06	Not Sampled				
MW - 3	11/27/06	**1.470**	0.0273	0.4740	0.3100	
MW - 3	03/20/07	**5.880**	<.5	**7.0500**	**3.93**	
MW - 3	06/04/07	**<0.5**	<0.5	<0.5	<0.5	
MW - 3	08/22/07	Not Sampled Due to PSH in Well				
MW - 3	11/29/07	**1.010**	0.0205	0.6700	0.2470	
MW - 3	02/26/08	**1.170**	0.0298	0.5820	0.2080	
MW - 3	05/22/08	**1.280**	0.0156	0.4470	0.1500	
MW - 3	08/27/08	Not Sampled Due to PSH in Well				
MW - 3	11/20/08	**0.948**	<0.005	0.3810	0.1180	
MW - 3	02/16/09	**0.522**	<0.005	0.2880	0.0654	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

.

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Guideline		**0.01 (mg/L)**	**0.75 (mg/L)**	**0.75 (mg/L)**	**0.62 (mg/L)**	
MW - 3	05/29/09	**4.010**	0.1222	**3.3800**	**2.6200**	
MW - 3	08/06/09	**0.645**	<0.0200	0.4330	0.3120	
MW - 3	11/10/09	**0.779**	<0.0200	0.2060	0.0529	
MW - 3	02/04/10	**0.323**	<0.0200	0.1100	0.0896	
MW - 3	05/06/10	**0.259**	<0.0100	0.0319	0.0545	
MW - 3	08/05/10	**0.289**	0.005	0.0611	0.0414	
MW - 3	11/04/10	**0.290**	0.0049	0.1550	0.0297	
MW - 3	02/09/11	**0.413**	0.0099	0.2150	<0.00100	
MW - 3	05/03/11	**0.425**	0.0029	0.1230	0.0297	
MW - 3	08/02/11	**0.378**	0.0082	0.1580	0.0453	
MW - 3	11/21/11	**0.110**	<0.005	0.0381	<0.005	
MW - 3	02/13/12	**0.027**	<0.005	<0.005	<0.005	
MW - 3	05/24/12	**0.065**	<0.001	0.0704	0.0407	
MW - 3	08/07/12	**0.393**	<0.050	0.1360	<0.050	
MW - 3	11/14/12	**0.160**	<0.005	0.4860	0.1270	
MW - 3	02/14/13	**0.274**	<0.00500	0.718	0.255	
MW - 3	05/09/13	**0.127**	<0.00500	0.191	0.0838	
MW - 3	08/08/13	**0.352**	<0.00500	0.086	0.0706	
MW - 3	11/21/13	**0.337**	0.00310	0.0652	0.0720	
MW - 3	02/24/14	**0.341**	<0.0500	<0.0500	<0.150	
MW - 3	05/07/14	**0.295**	<0.0500	0.0579	<0.150	
MW - 3	08/16/14	**0.403**	<0.0500	<0.0500	0.0643	
MW - 3	11/11/14	**0.372**	<0.0500	<0.0500	0.0754	
MW - 4	05/25/04	0.0017	0.00101	0.4070	0.4580	
MW - 4	07/26/04	0.0021	<0.001	0.4470	0.0936	
MW - 4	10/04/04	<0.001	<0.001	0.0934	0.0050	
MW - 4	12/17/04	0.0039	<0.001	0.1090	<0.002	
MW - 4	03/29/05	0.0026	<0.001	0.0592	0.0027	
MW - 4	05/11/05	<0.001	<0.001	0.0461	<0.002	
MW - 4	08/16/05	<0.001	<0.001	0.0325	<0.002	
MW - 4	11/15/05	<0.001	<0.001	0.0048	<0.002	
MW - 4	02/15/06	<0.001	<0.001	<0.001	<0.002	
MW - 4	05/23/06	Not Sampled on Current Sample Schedule				
MW - 4	08/09/06	Not Sampled on Current Sample Schedule				
MW - 4	11/27/06	Not Sampled on Current Sample Schedule				
MW - 4	03/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 4	06/04/07	Not Sampled on Current Sample Schedule				

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

.

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Guideline		**0.01 (mg/L)**	**0.75 (mg/L)**	**0.75 (mg/L)**	**0.62 (mg/L)**	
MW - 4	08/22/07	Not Sampled on Current Sample Schedule				
MW - 4	11/29/07	<0.005	<0.005	<0.005	<0.005	
MW - 4	02/26/08	Not Sampled on Current Sample Schedule				
MW - 4	05/22/08	Not Sampled on Current Sample Schedule				
MW - 4	08/27/08	Not Sampled on Current Sample Schedule				
MW - 4	11/20/08	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/16/09	Not Sampled on Current Sample Schedule				
MW - 4	05/29/09	<0.001	<0.001	0.0069	0.0084	
MW - 4	08/06/09	Not Sampled on Current Sample Schedule				
MW - 4	11/10/09	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/04/10	Not Sampled on Current Sample Schedule				
MW - 4	05/06/10	Not Sampled on Current Sample Schedule				
MW - 4	08/05/10	Not Sampled on Current Sample Schedule				
MW - 4	11/04/10	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/09/11	Not Sampled on Current Sample Schedule				
MW - 4	05/03/11	Not Sampled on Current Sample Schedule				
MW - 4	08/02/11	Not Sampled on Current Sample Schedule				
MW - 4	11/21/11	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/13/12	Not Sampled on Current Sample Schedule				
MW - 4	05/24/12	Not Sampled on Current Sample Schedule				
MW - 4	08/07/12	Not Sampled on Current Sample Schedule				
MW - 4	11/14/12	<0.001	<0.001	<0.001	<0.001	
MW - 4	02/14/13	Not Sampled on Current Sample Schedule				
MW - 4	05/09/13	Not Sampled on Current Sample Schedule				
MW - 4	08/08/13	Not Sampled on Current Sample Schedule				
MW - 4	11/21/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 4	02/24/14	Not Sampled on Current Sample Schedule				
MW - 4	05/07/14	Not Sampled on Current Sample Schedule				
MW - 4	08/16/14	Not Sampled on Current Sample Schedule				
MW - 4	11/11/14	<0.00100	<0.00100	0.00180	<0.00100	
MW - 5	05/25/04	**0.1780**	0.0209	0.6540	**0.6390**	
MW - 5	07/26/04	**0.0934**	0.00204	0.4840	0.1143	
MW - 5	10/04/04	**0.0692**	<0.001	0.1990	0.0286	
MW - 5	12/17/04	**0.1400**	<0.001	0.2280	0.0090	
MW - 5	03/29/05	**0.0381**	<0.001	0.1250	0.0067	
MW - 5	05/11/05	**0.0250**	<0.001	0.1190	<0.002	
MW - 5	08/16/05	**0.0600**	<0.001	0.0341	0.0030	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

.

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Guideline		**0.01 (mg/L)**	**0.75 (mg/L)**	**0.75 (mg/L)**	**0.62 (mg/L)**	
MW - 5	11/15/05	**0.0106**	<0.001	0.0376	<0.002	
MW - 5	02/15/06	**0.0121**	<0.001	0.0341	<0.002	
MW - 5	05/23/06	0.0095	<0.001	0.0105	<0.002	
MW - 5	08/09/06	**0.0285**	<0.001	0.0034	0.0030	
MW - 5	11/27/06	**0.0371**	0.0016	0.0048	0.0042	
MW - 5	03/20/07	0.0063	<0.001	0.0195	<0.001	
MW - 5	06/04/07	0.0065	<0.001	0.0200	<0.001	
MW - 5	08/22/07	0.0057	<0.001	0.0079	<0.001	
MW - 5	11/29/07	**0.0176**	0.0016	0.0273	0.0212	
MW - 5	02/26/08	**0.0112**	<0.001	0.0225	<0.001	
MW - 5	05/22/08	0.0053	<0.001	0.0098	0.0018	
MW - 5	08/28/08	**0.0189**	<0.001	0.0098	0.0021	
MW - 5	11/20/08	**0.0282**	<0.001	0.0106	0.0206	
MW - 5	02/16/09	0.0096	<0.005	0.0090	<0.005	
MW - 5	05/29/09	**0.0133**	<0.001	0.0065	0.0090	
MW - 5	08/06/09	**0.0229**	<0.001	0.0083	<0.001	
MW - 5	11/10/09	**0.0231**	<0.001	0.0016	0.0017	
MW - 5	02/04/10	**0.0245**	<0.001	0.0026	0.0042	
MW - 5	05/06/10	**0.0267**	<0.001	<0.001	<0.001	
MW - 5	08/05/10	**0.0358**	<0.001	0.0149	0.0057	
MW - 5	11/04/10	**0.0223**	<0.001	0.0206	0.0109	
MW - 5	02/09/11	**0.0966**	<0.001	0.3440	0.0325	
MW - 5	05/03/11	**0.0849**	<0.001	0.0085	0.0130	
MW - 5	08/02/11	**0.1010**	<0.001	0.0686	0.0371	
MW - 5	11/21/11	**0.2520**	<0.001	0.0204	<0.001	
MW - 5	02/13/12	**0.0292**	<0.001	0.0412	<0.001	
MW - 5	05/24/12	**0.0251**	<0.001	0.0725	0.0186	
MW - 5	08/07/12	**0.0621**	<0.001	0.0172	0.0111	
MW - 5	11/14/12	**0.0225**	<0.005	0.0217	<0.005	
MW - 5	02/14/13	**0.0201**	<0.00500	<0.00500	<0.00500	
MW - 5	05/09/13	0.00890	<0.00100	0.0103	<0.00100	
MW - 5	08/08/13	**0.0122**	<0.00100	0.0048	<0.00100	
MW - 5	11/21/13	**0.0245**	<0.00100	0.00490	<0.00300	
MW - 5	02/24/14	**0.0306**	<0.00500	<0.00500	<0.0150	
MW - 5	05/07/14	**0.0235**	<0.00100	0.00650	<0.00300	
MW - 5	08/16/14	**0.0279**	<0.00100	0.0103	0.00470	
MW - 5	11/11/14	**0.0548**	<0.0500	0.331	0.0648	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

.

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Guideline		**0.01 (mg/L)**	**0.75 (mg/L)**	**0.75 (mg/L)**	**0.62 (mg/L)**	
MW - 6	05/25/04	**0.6410**	0.00533	0.1610	0.2007	
MW - 6	07/26/04	**0.0998**	<0.001	0.0754	0.0023	
MW - 6	10/04/04	**0.0332**	<0.001	0.0618	0.0034	
MW - 6	12/17/04	<0.001	<0.001	0.0012	<0.002	
MW - 6	03/29/05	<0.001	<0.001	<0.001	<0.002	
MW - 6	05/11/05	<0.001	<0.001	<0.001	<0.002	
MW - 6	08/16/05	0.0054	<0.001	<0.001	<0.002	
MW - 6	11/15/05	0.0011	<0.001	0.0022	<0.002	
MW - 6	02/15/06	<0.001	<0.001	0.0021	<0.002	
MW - 6	05/23/06	<0.001	<0.001	<0.001	<0.002	
MW - 6	08/09/06	<0.001	<0.001	<0.001	<0.002	
MW - 6	11/27/06	0.0011	<0.001	<0.001	<0.002	
MW - 6	03/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 6	06/04/07	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/22/07	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/29/07	<0.005	<0.005	<0.005	<0.005	
MW - 6	02/26/08	<0.001	<0.001	<0.001	<0.001	
MW - 6	05/22/08	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/27/08	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/20/08	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/16/09	Not Sampled				
MW - 6	05/29/09	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/10/09	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/04/10	<0.001	<0.001	<0.001	<0.001	
MW - 6	05/06/10	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/05/10	0.0014	<0.001	<0.001	<0.001	
MW - 6	11/04/10	0.0066	<0.001	<0.001	<0.001	
MW - 6	02/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 6	05/03/11	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/02/11	<0.001	<0.001	<0.001	<0.001	
MW - 6	11/21/11	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/13/12	0.0068	<0.001	<0.001	<0.001	
MW - 6	05/24/12	<0.001	<0.001	<0.001	<0.001	
MW - 6	08/07/12	0.0023	<0.001	<0.001	<0.001	
MW - 6	11/14/12	<0.001	<0.001	<0.001	<0.001	
MW - 6	02/14/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	05/09/13	<0.00100	<0.00100	<0.00100	<0.00100	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

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PLAINS MARKETING, L.P.
34 JUNCTION TO LEA
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Guideline		**0.01 (mg/L)**	**0.75 (mg/L)**	**0.75 (mg/L)**	**0.62 (mg/L)**	
MW - 6	08/08/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 6	11/21/13	0.00170	<0.00100	<0.00100	<0.00300	
MW - 6	02/24/14	0.00690	<0.00100	<0.00100	<0.00300	
MW - 6	05/07/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 6	08/16/14	0.00300	<0.00100	<0.00100	<0.00100	
MW - 6	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 7	05/25/04	**1.840**	0.0267	**0.813**	0.4980	
MW - 7	07/26/04	**2.110**	0.608	**1.180**	**2.0750**	
MW - 7	10/04/04	**1.940**	<0.002	**0.830**	**0.6310**	
MW - 7	12/17/04	**3.260**	<0.005	0.604	0.4841	
MW - 7	03/29/05	**3.270**	<0.005	**0.889**	**0.7090**	
MW - 7	05/11/05	**1.470**	<0.002	**0.759**	0.4970	
MW - 7	08/16/05	**2.710**	<0.005	**1.050**	**0.8720**	
MW - 7	11/15/05	**0.995**	<0.001	0.540	0.3120	
MW - 7	02/15/06	**1.010**	<0.001	0.552	0.3710	
MW - 7	05/23/06	**1.030**	<0.001	0.483	0.2892	
MW - 7	08/09/06	**2.040**	0.001	**1.070**	**0.8706**	
MW - 7	11/27/06	**2.250**	<0.01	**1.130**	**0.8610**	
MW - 7	03/20/07	**0.836**	<0.10	**0.804**	**0.9400**	
MW - 7	06/04/07	**1.040**	<0.1	0.702	0.3070	
MW - 7	08/22/07	**1.290**	<0.05	**0.790**	0.2750	
MW - 7	11/29/07	**1.470**	<0.02	**0.984**	0.3930	
MW - 7	02/26/08	**1.060**	<0.01	0.704	0.2640	
MW - 7	05/22/08	**1.060**	<0.0100	0.683	0.2680	
MW - 7	08/28/08	**1.100**	<0.0100	0.672	0.2700	
MW - 7	11/20/08	**1.180**	<0.0100	0.690	0.2930	
MW - 7	02/16/09	**0.672**	<0.0100	0.355	0.1070	
MW - 7	05/29/09	**1.290**	<0.0100	0.717	0.3610	
MW - 7	08/06/09	**1.380**	0.0423	**0.752**	0.4740	
MW - 7	11/10/09	**0.925**	<0.010	0.458	0.2590	
MW - 7	02/04/10	**0.994**	<0.010	0.505	0.3280	
MW - 7	05/06/10	**0.849**	<0.010	0.393	0.2610	
MW - 7	08/05/10	**0.608**	<0.0500	0.287	0.1720	
MW - 7	11/04/10	**0.975**	<0.001	0.499	0.6050	
MW - 7	02/09/11	**0.877**	<0.0100	0.410	0.3910	
MW - 7	05/03/11	**1.130**	<0.0500	0.383	0.2370	
MW - 7	08/02/11	**0.616**	<0.0500	0.337	**0.8970**	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

.

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Guideline		**0.01 (mg/L)**	**0.75 (mg/L)**	**0.75 (mg/L)**	**0.62 (mg/L)**	
MW - 7	11/21/11	**0.512**	<0.005	0.187	0.1600	
MW - 7	02/13/12	**0.539**	<0.005	0.200	0.2510	
MW - 7	05/24/12	**0.419**	<0.050	0.151	0.1420	
MW - 7	08/07/12	**1.060**	<0.050	0.515	0.4720	
MW - 7	11/14/12	**0.762**	<0.005	0.288	0.3030	
MW - 7	02/14/13	**0.610**	<0.01000	0.290	0.265	
MW - 7	05/09/13	**0.505**	<0.00500	0.211	0.155	
MW - 7	08/08/13	**0.590**	<0.00500	0.226	0.105	
MW - 7	11/21/13	**0.449**	<0.00500	0.190	0.0711	
MW - 7	02/24/14	**0.518**	<0.0500	0.165	<0.150	
MW - 7	05/07/14	**0.439**	<0.0500	0.146	<0.150	
MW - 7	08/16/14	**0.570**	<0.0500	0.259	0.0893	
MW - 7	11/11/14	**0.575**	<0.0500	0.310	0.0995	
MW - 8	03/22/06	0.0079	0.00399	0.0173	0.0187	
MW - 8	05/23/06	<0.001	<0.001	0.0129	<0.002	
MW - 8	08/09/06	<0.001	<0.001	0.0220	<0.002	
MW - 8	11/27/06	<0.001	<0.001	0.0131	<0.002	
MW - 8	03/20/07	<0.001	<0.001	0.0121	<0.001	
MW - 8	06/04/07	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/22/07	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/29/07	<0.005	<0.005	<0.005	<0.005	
MW - 8	02/26/08	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/22/08	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/27/08	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/20/08	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/16/09	Not Sampled on Current Sample Schedule				
MW - 8	05/29/09	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/06/09	Not Sampled on Current Sample Schedule				
MW - 8	11/10/09	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/04/10	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/06/10	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/04/10	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/03/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	08/02/11	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/21/11	<0.001	<0.001	<0.001	<0.001	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

.

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Guideline		**0.01 (mg/L)**	**0.75 (mg/L)**	**0.75 (mg/L)**	**0.62 (mg/L)**	
MW - 8	02/13/12	<0.001	<0.001	<0.001	<0.001	
MW - 8	05/24/12	<0.001	<0.001	<0.001	0.0020	
MW - 8	08/07/12	<0.001	<0.001	<0.001	<0.001	
MW - 8	11/14/12	<0.001	<0.001	<0.001	<0.001	
MW - 8	02/14/13	Not Sampled on Current Sample Schedule				
MW - 8	05/09/13	Not Sampled on Current Sample Schedule				
MW - 8	08/08/13	Not Sampled on Current Sample Schedule				
MW - 8	11/21/13	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 8	02/24/14	Not Sampled on Current Sample Schedule				
MW - 8	05/07/14	Not Sampled on Current Sample Schedule				
MW - 8	08/16/14	Not Sampled on Current Sample Schedule				
MW - 8	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 9	03/22/06	0.0024	0.00238	0.0033	0.0060	
MW - 9	05/23/06	0.0074	<0.001	0.0157	0.0085	
MW - 9	08/09/06	<0.001	<0.001	<0.001	<0.002	
MW - 9	11/27/06	<0.001	<0.001	<0.001	<0.002	
MW - 9	03/20/07	<0.001	<0.001	<0.001	<0.001	
MW - 9	06/04/07	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/22/07	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/29/07	<0.005	<0.005	<0.005	<0.005	
MW - 9	02/26/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/22/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/27/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/20/08	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/16/09	Not Sampled on Current Sample Schedule				
MW - 9	05/29/09	0.0035	0.003	<0.001	<0.001	
MW - 9	08/06/09	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/10/09	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/04/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/06/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/05/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/04/10	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/09/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	05/03/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/02/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/21/11	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/13/12	<0.001	<0.001	<0.001	<0.001	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

.

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Guideline		**0.01 (mg/L)**	**0.75 (mg/L)**	**0.75 (mg/L)**	**0.62 (mg/L)**	
MW - 9	05/24/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	08/07/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	11/14/12	<0.001	<0.001	<0.001	<0.001	
MW - 9	02/14/13	Not Sampled on Current Sample Schedule				
MW - 9	05/09/13	Not Sampled on Current Sample Schedule				
MW - 9	08/08/13	Not Sampled on Current Sample Schedule				
MW - 9	11/21/13	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 9	02/24/14	Not Sampled on Current Sample Schedule				
MW - 9	05/07/14	Not Sampled on Current Sample Schedule				
MW - 9	08/16/14	Not Sampled on Current Sample Schedule				
MW - 9	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 10	03/22/06	**1.7400**	0.204	**2.0900**	0.5970	
MW - 10	05/23/06	**0.0686**	<0.001	0.0829	0.0224	
MW - 10	08/09/06	**0.0957**	0.0106	0.6010	0.3670	
MW - 10	11/27/06	**0.0205**	<0.001	0.0232	0.0026	
MW - 10	03/20/07	**1.1000**	<0.001	0.0777	0.0072	
MW - 10	06/04/07	**0.0940**	<0.001	0.1650	0.0425	
MW - 10	08/22/07	**0.0937**	<0.001	0.0877	0.0163	
MW - 10	11/29/07	**0.0432**	<0.001	0.0266	0.0066	
MW - 10	02/26/08	**0.0840**	0.002	0.1710	0.0572	
MW - 10	05/22/08	**0.0536**	0.001	0.1160	0.0389	
MW - 10	08/28/08	**0.0302**	<0.001	0.0261	0.0079	
MW - 10	11/20/08	**0.0554**	<0.001	0.1120	0.0395	
MW - 10	02/16/09	**0.0917**	<0.001	0.0812	0.0256	
MW - 10	05/29/09	**0.1420**	<0.001	0.0920	0.0407	
MW - 10	08/06/09	**0.0944**	<0.001	0.0255	0.0181	
MW - 10	11/10/09	**0.0272**	<0.001	0.0058	0.0019	
MW - 10	02/04/10	**0.2200**	<0.001	0.0644	0.0223	
MW - 10	05/06/10	**0.1650**	<0.001	0.1720	0.0611	
MW - 10	08/05/10	**0.0152**	<0.001	0.0116	0.0062	
MW - 10	11/04/10	**0.0398**	<0.001	0.1030	0.0361	
MW - 10	02/09/11	**0.0334**	<0.001	0.0566	0.0321	
MW - 10	05/03/11	**0.0265**	<0.001	0.0108	0.0034	
MW - 10	08/02/11	**0.1340**	<0.001	0.0136	0.0193	
MW - 10	11/21/11	**0.2520**	<0.001	0.0204	<0.001	
MW - 10	02/13/12	**0.2080**	<0.001	0.0172	0.0248	
MW - 10	05/24/12	**0.2690**	<0.050	<0.050	<0.050	

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

.

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Guideline		**0.01 (mg/L)**	**0.75 (mg/L)**	**0.75 (mg/L)**	**0.62 (mg/L)**	
MW - 10	08/07/12	**0.5270**	<0.050	0.0857	<0.050	
MW - 10	11/14/12	**0.2440**	<0.005	<0.005	<0.005	
MW - 10	02/14/13	**0.256**	<0.00500	<0.00500	<0.00500	
MW - 10	05/09/13	**0.256**	<0.00500	<0.00500	<0.00500	
MW - 10	08/08/13	**0.300**	<0.00500	0.0719	0.0226	
MW - 10	11/21/13	**0.362**	<0.00100	0.0389	<0.00300	
MW - 10	02/24/14	**0.284**	<0.00100	0.0317	<0.00300	
MW - 10	05/07/14	**0.157**	<0.0500	<0.0500	<0.150	
MW - 10	08/16/14	**0.231**	<0.00100	0.0035	0.00130	
MW - 10	11/11/14	**<0.0200**	<0.0200	0.0216	<0.0200	
MW - 11	08/22/07	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	11/29/07	<0.005	<0.005	<0.005	<0.00500	
MW - 11	02/26/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	05/22/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	08/27/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	11/20/08	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	02/16/09	Not Sampled				
MW - 11	05/29/09	<0.00100	<0.00100	0.0042	<0.00100	
MW - 11	08/06/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	11/10/09	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	02/04/10	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	05/06/10	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	08/05/10	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	11/04/10	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	02/09/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	05/03/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	08/02/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	11/21/11	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	02/13/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	05/24/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	08/07/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	11/14/12	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	02/26/13	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11	05/09/13	**Due to Damage, MW-11 Was Not Sampled**				
MW - 11	08/08/13	**Due to Damage, MW-11 Was Not Sampled**				
MW - 11	11/21/13	**Due to Damage, MW-11 Was Not Sampled**				
MW - 11	02/04/14	Plugged and Abandoned				

TABLE 2

HISTORIC CONCENTRATIONS OF BTEX IN GROUNDWATER

.

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA
LEA COUNTY, NEW MEXICO
NMOCD Reference Number 1R-0386

Sample Location	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	m,p-Xylenes (mg/L)	o-Xylene (mg/L)
NMOCD Regulatory Guideline		**0.01 (mg/L)**	**0.75 (mg/L)**	**0.75 (mg/L)**	**0.62 (mg/L)**	
MW - 11-A	02/24/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11-A	05/07/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 11-A	08/16/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 11-A	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 12	02/24/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 12	05/07/14	<0.00100	<0.00100	<0.00100	<0.00300	
MW - 12	08/16/14	<0.00100	<0.00100	<0.00100	<0.00100	
MW - 12	11/11/14	<0.00100	<0.00100	<0.00100	<0.00100	

Historic Table 3

TABLE 3

HISTORIC CONCENTRATIONS OF PAH IN GROUNDWATER

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA STATION
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0386

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		---	---	**0.001 mg/L**	**0.0001 mg/L**	**0.0007 mg/L**	**0.001 mg/L**	---	**0.001 mg/L**	**0.0002 mg/L**	**0.0003 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.0004 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.03 mg/L**			---
MW-1	03/20/07	<0.0002	<0.0002	0.0019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	**0.0026**	<0.0004	<0.0002	<0.0002	**0.0558**	---	---	0.0025
	11/20/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	**0.00216**	<0.000185	**0.00139**	<0.000185	**0.010**	**0.0303**	**0.00294**	0.00134
	11/10/09	<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	0.000843	<0.000184	0.00135	0.0101	0.00102	0.000547
	11/04/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	**0.00146**	<0.000184	**0.00143**	<0.000184	**0.00892**	**0.0180**	**0.00719**	0.00141
	11/15/12	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	**0.0187**	<0.000190	**0.0232**	<0.000190	**0.0268**	**0.1390**	**0.0471**	0.0165
	11/21/13	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	**0.0611**	**0.0629**	**0.0436**	<0.000200
	11/11/14	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	**0.044**	**0.0656**	**0.0142**	<0.000200
MW-2	03/20/07	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	0.001	<0.0004	<0.0002	<0.0002	0.0214	---	---	0.0008
	11/20/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.000383	<0.000185	0.000367	<0.000185	0.000269	0.00614	<0.000185	<0.000185
	11/10/09	<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	0.000833	0.00572	<0.000183	<0.000183
	11/04/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/21/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-3	03/20/07	0.0166	<0.001	0.216	0.0067	0.0081	<0.001	<0.001	<0.002	0.0315	<0.001	0.0236	**0.148**	<0.002	<0.001	0.0246	0.417	---	---	0.111
	11/20/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.000218	**0.00329**	<0.000183	**0.00263**	<0.000183	0.00547	**0.0366**	**0.00206**	0.00245
	11/10/09	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	**0.00193**	<0.000185	**0.00213**	<0.000185	0.000734	0.0214	<0.000185	0.00146
	11/04/10	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	**0.00508**	<0.000198	**0.00891**	0.00101	<0.000198	**0.0606**	<0.000198	0.00285
	12/15/11	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	**0.00180**	<0.000185	**0.00225**	<0.000185	0.00043	0.0167	<0.000185	0.0018
	11/15/12	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	**0.00472**	<0.000190	**0.00457**	<0.000190	**0.0410**	**0.0461**	**0.0291**	0.0044
	11/21/13	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.0245	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	**0.0179**	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
	11/11/14	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	1.0245	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	**0.00497**	**0.0512**	**<0.00020**	<0.00020
MW-4	03/20/07	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	0.0006	<0.0004	<0.0002	<0.0002	<0.0002	---	---	0.0007
	11/20/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.00045	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.00035
	11/10/09	<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
	11/04/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		

TABLE 3

HISTORIC CONCENTRATIONS OF PAH IN GROUNDWATER

PLAINS MARKETING, L.P.
34 JUNCTION TO LEA STATION
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0386

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		---	---	**0.001 mg/L**	**0.0001 mg/L**	**0.0007 mg/L**	**0.001 mg/L**	---	**0.001 mg/L**	**0.0002 mg/L**	**0.0003 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.0004 mg/L**	**0.001 mg/L**	**0.001 mg/L**	**0.03 mg/L**			---
	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/21/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-5	03/20/07	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	0.0006	<0.0004	<0.0002	<0.0002	0.0059	---	---	0.0006
	11/20/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000555	<0.000184	0.000788	<0.000184	<0.000184	0.0034	<0.000184	0.00086
	11/10/09	<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
	11/04/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/21/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-6	03/20/07	<0.0002	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	---	---	0.0003
	11/20/08	<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
	11/10/09	<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
	11/04/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/21/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-7	03/20/07	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	0.0009	<0.0004	<0.0002	<0.0002	0.0252	---	---	0.0092
	11/20/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	**0.00125**	<0.000184	0.00073	<0.000184	**0.0216**	**0.0212**	**0.00878**	0.00104
	11/10/09	<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	0.00169	0.00241	<0.000184	<0.000184
	11/04/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.000453	<0.000185	0.000372	<0.000185	0.000956	0.00527	0.00127	0.00047
	11/15/12	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	0.000831	<0.000190	0.000568	<0.000190	0.00968	0.0173	0.00337	0.000826
	11/21/13	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	**0.00848**	<0.000200	<0.000200	0.0217	<0.000200	<0.000200	<0.000200
	11/11/14	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	**0.026**	**0.0549**	**0.00821**	<0.000200
MW-8	03/20/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3

HISTORIC CONCENTRATIONS OF PAH IN GROUNDWATER

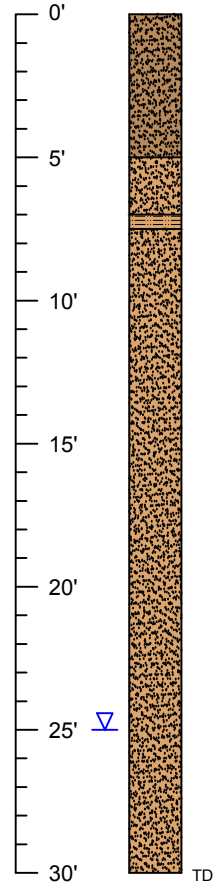
PLAINS MARKETING, L.P.
34 JUNCTION TO LEA STATION
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0386

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																		
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Phenanthrene	Pyrene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		--	--	0.001 mg/L	0.0001 mg/L	0.0007 mg/L	0.001 mg/L	--	0.001 mg/L	0.0002 mg/L	0.0003 mg/L	0.001 mg/L	0.001 mg/L	0.0004 mg/L	0.001 mg/L	0.001 mg/L	0.03 mg/L			--
	11/20/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185
	11/10/09	<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
	11/04/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/21/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-9	03/20/07	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	---	---	<0.0002
	11/20/08	<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
	11/10/09	<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
	11/04/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/21/13	Not Sampled as part of Quarterly Monitoring Event.																		
	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-10	03/20/07	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	0.0085	---	---	0.0005
	11/20/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.000646	0.000828	0.000196	<0.000185
	11/10/09	<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
	11/04/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		
	11/11/14	Not Sampled as part of Quarterly Monitoring Event.																		
MW-11	03/20/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/20/08	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187
	11/10/09	<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
	11/04/10	Not Sampled as part of Quarterly Monitoring Event.																		
	12/15/11	Not Sampled as part of Quarterly Monitoring Event.																		
	11/15/12	Not Sampled as part of Quarterly Monitoring Event.																		

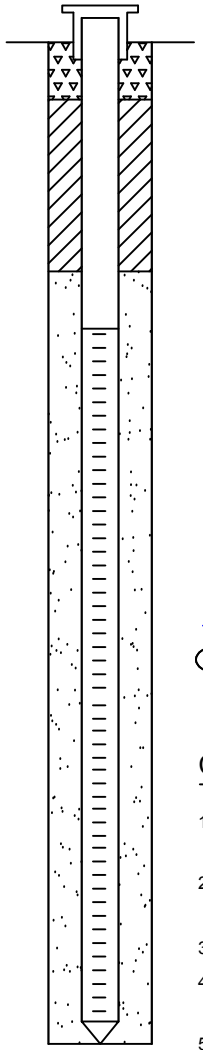
Soil Boring Log

Monitor Well MW-11A



Notes	Soil Description
No Odor	0 - 5' - Brownish Tan Fine sand, well rounded and well sorted.
	5 - 7' - Light Tan fine to very fine sand, well rounded well sorted.
	7 - 7.5' - Light tan hard thin sandstone layer.
No Odor	7.5 - 30' - Light tan fine to very fine sand, well rounded well sorted. Moist at 20' Wet 25' to TD.

Monitor Well Details



Date Drilled 2-4-2014
Thickness of Bentonite Seal 6 ft
Length of PVC Well Screen 30 ft
Depth of PVC Well 30 ft
Depth of Exploratory Well 30 ft

Grout Surface Seal - 0' to 2'

Bentonite Pellet Seal - 2' to 8'

Sand Pack - 8' to 30'

Screen - 10' to 30'

▽ Indicates the ground water level measured on date.

Indicates samples selected for laboratory analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitor well was installed on date using Air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.010 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a stick-up and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitor Well Details

Monitor Well - 11A

Plains Pipeline, L.P. 34 Junction to Lea Station Lea County, NM

NOVA Safety and Environmental

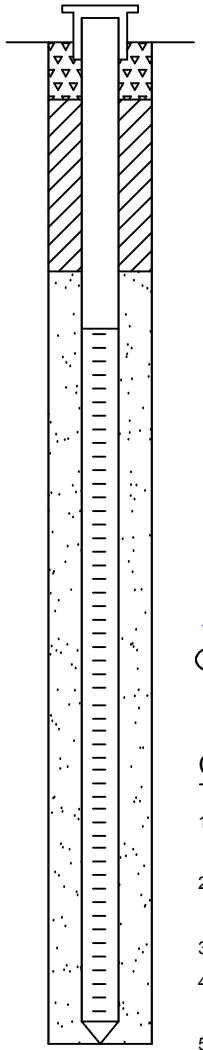
NOVA safety and environmental

Scale: N/A	Prep By: TA	Checked By: CS
March 6, 2014		

Monitor Well MW-12

Depth (feet)	Soil Columns	PID Reading	Notes	Soil Description
0'			No Odor	0 - 2' - Brown Fine sand, well rounded and well sorted.
5'		0.3		2 - 7' - Light Tan fine to very fine sand, well rounded well sorted. Some clay content.
10'		0.0		
15'		0.0	No Odor	7 - 23' - Light Tan fine to very fine sand, well rounded well sorted. Moist at 15', wet at 20'.
20' ▽		0.0		
25'			No Odor	23 - 27' - Grayish tan fine to very fine sand, well rounded moderately sorted. High clay content. Wet
30'	TD		No Odor	27 - 30' - Light tan fine to very fine sand, well rounded moderately sorted. Slight clay content.

Monitor Well Details



Date Drilled 2-4-2014
Thickness of Bentonite Seal 6 ft
Length of PVC Well Screen 30 ft
Depth of PVC Well 30 ft
Depth of Exploratory Well 30 ft

Grout Surface Seal - 0' to 2'

Bentonite Pellet Seal - 2' to 8'

Sand Pack - 8' to 30'

Screen - 10' to 30'

▽ Indicates the ground water level measured on date.

Indicates samples selected for laboratory analysis.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitor well was installed on date using Air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.010 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a Stick-up and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitor Well Details

Monitor Well - 12

Plains Pipeline, L.P. 34 Junction to Lea Station Lea County, NM

NOVA Safety and Environmental

NOVA safety and environmental

Scale: N/A	Prep By: TA	Checked By: CS
March 6, 2014		

Laboratory Reports

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972•242•7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

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

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 **El Paso:** T104704221-08-TX LELAP-02002 **Midland:** T104704392-08-TX

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: February 17, 2014

Work Order: 14020628

Project Location: New Mexico
Project Name: 34 Junction to Lea Station
Project Number: 2002-10286
SRS #: 2002-10286

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
354092	MW-11A @ 10’	soil	2014-02-04	12:40	2014-02-06
354093	MW-11A @ 20’	soil	2014-02-04	13:00	2014-02-06
354094	MW-12 @ 10’	soil	2014-02-04	14:10	2014-02-06
354095	MW-12 @ 20’	soil	2014-02-04	14:30	2014-02-06

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

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

Standard Flags

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

Case Narrative

Samples for project 34 Junction to Lea Station were received by TraceAnalysis, Inc. on 2014-02-06 and assigned to work order 14020628. Samples for work order 14020628 were received intact at a temperature of 4.8 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	92304	2014-02-11 at 11:53	109254	2014-02-13 at 14:33
TPH DRO - NEW	S 8015 D	92371	2014-02-12 at 13:30	109227	2014-02-13 at 09:08
TPH GRO	S 8015 D	92304	2014-02-11 at 11:53	109255	2014-02-13 at 14:36
TPH ORO	S 8015 D	92247	2014-02-07 at 15:00	109081	2014-02-10 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 14020628 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 354092 - MW-11A @ 10'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	109254	Date Analyzed:	2014-02-13	Analyzed By:	AK
Prep Batch:	92304	Sample Preparation:	2014-02-11	Prepared By:	AK

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.44	mg/Kg	1	2.00	72	70 - 130
4-Bromofluorobenzene (4-BFB)		1.95	mg/Kg	1	2.00	98	70 - 130

Sample: 354092 - MW-11A @ 10'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109227	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92371	Sample Preparation:	2014-02-12	Prepared By:	RG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		90.8	mg/Kg	1	100	91	70 - 130

Sample: 354092 - MW-11A @ 10'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109255	Date Analyzed:	2014-02-13	Analyzed By:	AK
Prep Batch:	92304	Sample Preparation:	2014-02-11	Prepared By:	AK

continued ...

sample 354092 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<4.00	mg/Kg	1	4.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.58	mg/Kg	1	2.00	79	70 - 130
4-Bromofluorobenzene (4-BFB)		2.09	mg/Kg	1	2.00	104	70 - 130

Sample: 354092 - MW-11A @ 10'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109081	Date Analyzed:	2014-02-10	Analyzed By:	RG
Prep Batch:	92247	Sample Preparation:	2014-02-07	Prepared By:	RG

Parameter	Flag	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO		<11.3	<50.0	<50.0	<50.0	mg/Kg	1	11.3	50.0	50.0	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		92.8	mg/Kg	1	100	93	70 - 130
n-Triacontane		102	mg/Kg	1	100	102	70 - 130

Sample: 354093 - MW-11A @ 20'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	109254	Date Analyzed:	2014-02-13	Analyzed By:	AK
Prep Batch:	92304	Sample Preparation:	2014-02-11	Prepared By:	AK

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.44	mg/Kg	1	2.00	72	70 - 130
4-Bromofluorobenzene (4-BFB)		1.93	mg/Kg	1	2.00	96	70 - 130

Sample: 354093 - MW-11A @ 20'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109227	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92371	Sample Preparation:	2014-02-12	Prepared By:	RG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		90.5	mg/Kg	1	100	90	70 - 130

Sample: 354093 - MW-11A @ 20'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109255	Date Analyzed:	2014-02-13	Analyzed By:	AK
Prep Batch:	92304	Sample Preparation:	2014-02-11	Prepared By:	AK

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<4.00	mg/Kg	1	4.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.55	mg/Kg	1	2.00	78	70 - 130
4-Bromofluorobenzene (4-BFB)		1.82	mg/Kg	1	2.00	91	70 - 130

Sample: 354093 - MW-11A @ 20'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109081	Date Analyzed:	2014-02-10	Analyzed By:	RG
Prep Batch:	92247	Sample Preparation:	2014-02-07	Prepared By:	RG

Parameter	Flag	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO		<11.3	<50.0	<50.0	<50.0	mg/Kg	1	11.3	50.0	50.0	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		90.9	mg/Kg	1	100	91	70 - 130
n-Triacontane		98.6	mg/Kg	1	100	99	70 - 130

Sample: 354094 - MW-12 @ 10'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	109254	Date Analyzed:	2014-02-13	Analyzed By:	AK
Prep Batch:	92304	Sample Preparation:	2014-02-11	Prepared By:	AK

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.45	mg/Kg	1	2.00	72	70 - 130
4-Bromofluorobenzene (4-BFB)		1.85	mg/Kg	1	2.00	92	70 - 130

Sample: 354094 - MW-12 @ 10'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109227	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92371	Sample Preparation:	2014-02-12	Prepared By:	RG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		92.8	mg/Kg	1	100	93	70 - 130

Sample: 354094 - MW-12 @ 10'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109255	Date Analyzed:	2014-02-13	Analyzed By:	AK
Prep Batch:	92304	Sample Preparation:	2014-02-11	Prepared By:	AK

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<4.00	mg/Kg	1	4.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.59	mg/Kg	1	2.00	80	70 - 130
4-Bromofluorobenzene (4-BFB)		1.72	mg/Kg	1	2.00	86	70 - 130

Sample: 354094 - MW-12 @ 10'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109081	Date Analyzed:	2014-02-10	Analyzed By:	RG
Prep Batch:	92247	Sample Preparation:	2014-02-07	Prepared By:	RG

Parameter	Flag	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO		<11.3	<50.0	<50.0	<50.0	mg/Kg	1	11.3	50.0	50.0	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		95.6	mg/Kg	1	100	96	70 - 130
n-Triacontane		105	mg/Kg	1	100	105	70 - 130

Sample: 354095 - MW-12 @ 20'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	109254	Date Analyzed:	2014-02-13	Analyzed By:	AK
Prep Batch:	92304	Sample Preparation:	2014-02-11	Prepared By:	AK

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.40	mg/Kg	1	2.00	70	70 - 130
4-Bromofluorobenzene (4-BFB)		1.86	mg/Kg	1	2.00	93	70 - 130

Sample: 354095 - MW-12 @ 20'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109227	Date Analyzed:	2014-02-13	Analyzed By:	RG
Prep Batch:	92371	Sample Preparation:	2014-02-12	Prepared By:	RG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		91.4	mg/Kg	1	100	91	70 - 130

Sample: 354095 - MW-12 @ 20'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	109255	Date Analyzed:	2014-02-13	Analyzed By:	AK
Prep Batch:	92304	Sample Preparation:	2014-02-11	Prepared By:	AK

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<4.00	mg/Kg	1	4.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.52	mg/Kg	1	2.00	76	70 - 130
4-Bromofluorobenzene (4-BFB)		1.73	mg/Kg	1	2.00	86	70 - 130

Sample: 354095 - MW-12 @ 20'

Laboratory:	Midland				
Analysis:	TPH ORO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	109081	Date Analyzed:	2014-02-10	Analyzed By:	RG
Prep Batch:	92247	Sample Preparation:	2014-02-07	Prepared By:	RG

Parameter	Flag	MDL Result	MQL Result	PQL Result	RL Result	Units	Dilution	MDL	MQL	PQL	RL
ORO		<11.3	<50.0	<50.0	<50.0	mg/Kg	1	11.3	50.0	50.0	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		92.6	mg/Kg	1	100	93	70 - 130
n-Triacontane		103	mg/Kg	1	100	103	70 - 130

Method Blank (1) QC Batch: 109081

QC Batch: 109081 Date Analyzed: 2014-02-10 Analyzed By: RG
Prep Batch: 92247 QC Preparation: 2014-02-07 Prepared By: RG

Parameter	Flag	MDL Result	Units	RL
ORO		<11.3	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		102	mg/Kg	1	100	102	70 - 130
n-Triacontane		112	mg/Kg	1	100	112	70 - 130

Method Blank (1) QC Batch: 109227

QC Batch: 109227 Date Analyzed: 2014-02-13 Analyzed By: RG
Prep Batch: 92371 QC Preparation: 2014-02-12 Prepared By: RG

Parameter	Flag	MDL Result	Units	RL
DRO		<6.88	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		96.0	mg/Kg	1	100	96	70 - 130

Method Blank (1) QC Batch: 109254

QC Batch: 109254 Date Analyzed: 2014-02-13 Analyzed By: AK
Prep Batch: 92304 QC Preparation: 2014-02-11 Prepared By: AK

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00533	mg/Kg	0.02
Toluene		<0.00645	mg/Kg	0.02
Ethylbenzene		<0.0116	mg/Kg	0.02
Xylene		<0.00874	mg/Kg	0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.78	mg/Kg	1	2.00	89	70 - 130
4-Bromofluorobenzene (4-BFB)		1.74	mg/Kg	1	2.00	87	70 - 130

Method Blank (1) QC Batch: 109255

QC Batch: 109255 Date Analyzed: 2014-02-13 Analyzed By: AK
Prep Batch: 92304 QC Preparation: 2014-02-11 Prepared By: AK

Parameter	Flag	MDL Result	Units	RL
GRO		<2.32	mg/Kg	4

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.83	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)		1.62	mg/Kg	1	2.00	81	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 109081 Date Analyzed: 2014-02-10 Analyzed By: RG
Prep Batch: 92247 QC Preparation: 2014-02-07 Prepared By: RG

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	108	102	mg/Kg	1	100	108	102	70 - 130
n-Triacontane	117	111	mg/Kg	1	100	117	111	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 109227 Date Analyzed: 2014-02-13 Analyzed By: RG
Prep Batch: 92371 QC Preparation: 2014-02-12 Prepared By: RG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	264	mg/Kg	1	250	<6.88	106	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	269	mg/Kg	1	250	<6.88	108	70 - 130	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-Tricosane	95.8	97.8	mg/Kg	1	100	96	98	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 109254 | Date Analyzed: 2014-02-13 | Analyzed By: AK
Prep Batch: 92304 | QC Preparation: 2014-02-11 | Prepared By: AK

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.58	mg/Kg	1	2.00	<0.00533	79	70 - 130
Toluene	1.71	mg/Kg	1	2.00	<0.00645	86	70 - 130
Ethylbenzene	1.77	mg/Kg	1	2.00	<0.0116	88	70 - 130
Xylene	5.45	mg/Kg	1	6.00	<0.00874	91	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.70	mg/Kg	1	2.00	<0.00533	85	70 - 130	7	20
Toluene	1.84	mg/Kg	1	2.00	<0.00645	92	70 - 130	7	20
Ethylbenzene	1.89	mg/Kg	1	2.00	<0.0116	94	70 - 130	7	20
Xylene	5.81	mg/Kg	1	6.00	<0.00874	97	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)	1.52	1.56	mg/Kg	1	2.00	76	78	70 - 130
4-Bromofluorobenzene (4-BFB)	1.83	1.73	mg/Kg	1	2.00	92	86	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 109255 | Date Analyzed: 2014-02-13 | Analyzed By: AK
Prep Batch: 92304 | QC Preparation: 2014-02-11 | Prepared By: AK

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	14.1	mg/Kg	1	20.0	<2.32	70	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	14.1	mg/Kg	1	20.0	<2.32	70	70 - 130	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.54	1.42	mg/Kg	1	2.00	77	71	70 - 130
4-Bromofluorobenzene (4-BFB)	1.69	1.85	mg/Kg	1	2.00	84	92	70 - 130

Matrix Spike (MS-1) Spiked Sample: 354090

QC Batch: 109081 | Date Analyzed: 2014-02-10 | Analyzed By: RG
Prep Batch: 92247 | QC Preparation: 2014-02-07 | Prepared By: RG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
ORO	<11.3	mg/Kg	1	250	<11.3	0	-

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
ORO	<11.3	mg/Kg	1	250	<11.3	0	-	0	

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-Tricosane	90.9	92.6	mg/Kg	1	100	91	93	70 - 130
n-Triacontane	100	101	mg/Kg	1	100	100	101	70 - 130

Matrix Spike (MS-1) Spiked Sample: 354080

QC Batch: 109227 | Date Analyzed: 2014-02-13 | Analyzed By: RG
Prep Batch: 92371 | QC Preparation: 2014-02-12 | Prepared By: RG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	234	mg/Kg	1	250	<6.88	94	70 - 130

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	232	mg/Kg	1	250	<6.88	93	70 - 130	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
n-Tricosane	87.6	87.5	mg/Kg	1	100	88	88	70 - 130

Matrix Spike (MS-1) Spiked Sample: 354101

QC Batch: 109254 | Date Analyzed: 2014-02-13 | Analyzed By: AK
Prep Batch: 92304 | QC Preparation: 2014-02-11 | Prepared By: AK

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.51	mg/Kg	1	2.00	<0.00533	76	70 - 130
Toluene	1.64	mg/Kg	1	2.00	<0.00645	82	70 - 130
Ethylbenzene	1.74	mg/Kg	1	2.00	<0.0116	87	70 - 130
Xylene	5.30	mg/Kg	1	6.00	<0.00874	88	70 - 130

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	3.02	mg/Kg	1	4.00	<0.00533	76	70 - 130	67	20
Toluene	3.29	mg/Kg	1	4.00	<0.00645	82	70 - 130	67	20
Ethylbenzene	3.45	mg/Kg	1	4.00	<0.0116	86	70 - 130	66	20
Xylene	10.5	mg/Kg	1	12.0	<0.00874	88	70 - 130	66	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.48	2.86	mg/Kg	1	2	74	72	70 - 130
4-Bromofluorobenzene (4-BFB)	1.82	3.61	mg/Kg	1	2	91	90	70 - 130

Matrix Spike (MS-1) Spiked Sample: 354101

QC Batch: 109255 | Date Analyzed: 2014-02-13 | Analyzed By: AK
Prep Batch: 92304 | QC Preparation: 2014-02-11 | Prepared By: AK

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	23.4	mg/Kg	1	20.0	4	97	70 - 130

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	19.8	mg/Kg	1	20.0	4	79	70 - 130	17	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.53	1.61	mg/Kg	1	2	76	80	70 - 130
4-Bromofluorobenzene (4-BFB)	1.76	2.10	mg/Kg	1	2	88	105	70 - 130

Standard (CCV-1)

QC Batch: 109227 Date Analyzed: 2014-02-13 Analyzed By: RG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	263	105	80 - 120	2014-02-13

Standard (CCV-2)

QC Batch: 109227 Date Analyzed: 2014-02-13 Analyzed By: RG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	271	108	80 - 120	2014-02-13

Standard (CCV-3)

QC Batch: 109227 Date Analyzed: 2014-02-13 Analyzed By: RG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	263	105	80 - 120	2014-02-13

Standard (CCV-1)

QC Batch: 109254 Date Analyzed: 2014-02-13 Analyzed By: AK

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/kg	0.100	0.0893	89	80 - 120	2014-02-13

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/kg	0.100	0.0936	94	80 - 120	2014-02-13
Ethylbenzene		mg/kg	0.100	0.0924	92	80 - 120	2014-02-13
Xylene		mg/kg	0.300	0.282	94	80 - 120	2014-02-13

Standard (CCV-2)

QC Batch: 109254 Date Analyzed: 2014-02-13 Analyzed By: AK

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/kg	0.100	0.110	110	80 - 120	2014-02-13
Toluene		mg/kg	0.100	0.109	109	80 - 120	2014-02-13
Ethylbenzene		mg/kg	0.100	0.0983	98	80 - 120	2014-02-13
Xylene		mg/kg	0.300	0.297	99	80 - 120	2014-02-13

Standard (CCV-3)

QC Batch: 109254 Date Analyzed: 2014-02-13 Analyzed By: AK

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/kg	0.100	0.0909	91	80 - 120	2014-02-13
Toluene		mg/kg	0.100	0.0959	96	80 - 120	2014-02-13
Ethylbenzene		mg/kg	0.100	0.0974	97	80 - 120	2014-02-13
Xylene		mg/kg	0.300	0.297	99	80 - 120	2014-02-13

Standard (CCV-1)

QC Batch: 109255 Date Analyzed: 2014-02-13 Analyzed By: AK

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.896	90	80 - 120	2014-02-13

Standard (CCV-2)

QC Batch: 109255 Date Analyzed: 2014-02-13 Analyzed By: AK

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.797	80	80 - 120	2014-02-13

Standard (CCV-3)

QC Batch: 109255 Date Analyzed: 2014-02-13 Analyzed By: AK

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.984	98	80 - 120	2014-02-13

LAB Order ID # 14020628

Page _____ of _____

TraceAnalysis, Inc.

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Company Name:	Nova Safety and Environmental	**Phone #:**	432-520-7720
Address:	2057 Commerce Dr, Midland, TX 79703	**Fax #:**	
Contact Person:	Curt Stanley	**E-mail:**	cstanley@novatraining.cc
Invoice to:	Plains		
Project #:	2002-10286	**Project Name:**	34 Junction to Lea Station
Project Location: (include state)	Eunice, NM	**Sampler Signature:**	Matthew Green

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / DRO / TVHC (80 15 M)	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC			Turn Around Time if different from standard	Hold
354092	MW-11A @ 10'	1			x							x		2-4-14	1140		x	x																			
093	MW-11A @ 20'	1			x							x		2-4-14	1200		x	x																			
094	MW-12 @ 10'	1			x							x		2-4-14	1410		x	x																			
095	MW-12 @ 20'	1			x							x		2-4-14	1430		x	x																			

	Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
1	Matthew Green	Nova	2-6-14	1425		TA	2/6/14	1425
2								
3								

INST 12.4 °C
OBS 4.9 °C
COR 4.8 °C

LAB USE ONLY

Intact (Y) N

Headspace Y / N /NA

Log-in Review _____

Carrier # Carry

REMARKS: CC: Carmella Midland all

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

Submittal of samples constitutes agreement to Terms and Conditions

ORIGINAL COPY

TRACEANALYSIS, INC.

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: March 3, 2014

Work Order: 14022502

Project Location: New Mexico
Project Name: 34 Junction to Lea
Project Number: 2002-10286

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
355701	MW-6	water	2014-02-24	12:15	2014-02-25
355702	MW-5	water	2014-02-24	12:28	2014-02-25
355703	MW-3	water	2014-02-24	12:45	2014-02-25
355704	MW-2	water	2014-02-24	13:02	2014-02-25
355705	MW-10	water	2014-02-24	13:18	2014-02-25
355706	MW-7	water	2014-02-24	13:43	2014-02-25
355707	MW-1	water	2014-02-24	14:05	2014-02-25

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

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

Report Contents

Case Narrative

Samples for project 34 Junction to Lea were received by TraceAnalysis, Inc. on 2014-02-25 and assigned to work order 14022502. Samples for work order 14022502 were received intact without headspace and at a temperature of 4.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	92741	2014-02-25 at 15:30	109677	2014-02-26 at 16:57
BTEX	S 8021B	92759	2014-02-27 at 10:31	109731	2014-02-28 at 07:36
BTEX	S 8021B	92819	2014-03-01 at 11:30	109768	2014-03-02 at 15:33

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 14022502 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 355701 - MW-6

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	109677	Date Analyzed:	2014-02-26	Analyzed By:	AK
Prep Batch:	92741	Sample Preparation:	2014-02-25	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qr,Qs	1	**0.00690**	mg/L	1	0.00100
Toluene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100
Xylene	Qr,Qs,U	1	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0944	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0772	mg/L	1	0.100	77	70 - 130

Sample: 355702 - MW-5

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	109768	Date Analyzed:	2014-03-02	Analyzed By:	AK
Prep Batch:	92819	Sample Preparation:	2014-03-01	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		1	**0.0306**	mg/L	5	0.00100
Toluene	U	1	<0.00500	mg/L	5	0.00100
Ethylbenzene	U	1	<0.00500	mg/L	5	0.00100
Xylene	U	1	<0.0150	mg/L	5	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.481	mg/L	5	0.500	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.380	mg/L	5	0.500	76	70 - 130

Sample: 355703 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	109677	Date Analyzed:	2014-02-26	Analyzed By:	AK
Prep Batch:	92741	Sample Preparation:	2014-02-25	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qr,Qs	1	**0.341**	mg/L	50	0.00100
Toluene	Qr,Qs,U	1	<0.0500	mg/L	50	0.00100
Ethylbenzene	Qr,Qs,U	1	<0.0500	mg/L	50	0.00100
Xylene	Qr,Qs	1	<0.150	mg/L	50	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.91	mg/L	50	5.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			3.98	mg/L	50	5.00	80	70 - 130

Sample: 355704 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	109731	Date Analyzed:	2014-02-28	Analyzed By:	AK
Prep Batch:	92759	Sample Preparation:	2014-02-27	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qs	1	**0.687**	mg/L	100	0.00100
Toluene	Qs,U	1	<0.100	mg/L	100	0.00100
Ethylbenzene	Qs	1	**0.176**	mg/L	100	0.00100
Xylene	Qs,U	1	<0.300	mg/L	100	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			9.79	mg/L	100	10.0	98	70 - 130
4-Bromofluorobenzene (4-BFB)			7.64	mg/L	100	10.0	76	70 - 130

Sample: 355705 - MW-10

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	109677	Date Analyzed:	2014-02-26	Analyzed By:	AK
Prep Batch:	92741	Sample Preparation:	2014-02-25	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qr,Qs	1	**0.284**	mg/L	1	0.00100
Toluene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	Qr,Qs	1	**0.0317**	mg/L	1	0.00100
Xylene	Qr,Qs,U	1	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0988	mg/L	1	0.100	99	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0997	mg/L	1	0.100	100	70 - 130

Sample: 355706 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	109731	Date Analyzed:	2014-02-28	Analyzed By:	AK
Prep Batch:	92759	Sample Preparation:	2014-02-27	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qs	1	**0.518**	mg/L	50	0.00100
Toluene	Qs,U	1	<0.0500	mg/L	50	0.00100
Ethylbenzene	Qs	1	**0.165**	mg/L	50	0.00100
Xylene	Qs	1	<0.150	mg/L	50	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.82	mg/L	50	5.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)			3.66	mg/L	50	5.00	73	70 - 130

Sample: 355707 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	109731	Date Analyzed:	2014-02-28	Analyzed By:	AK
Prep Batch:	92759	Sample Preparation:	2014-02-27	Prepared By:	AK

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Benzene	Qs	1	**0.461**		mg/L	50	0.00100
Toluene	Qs,U	1	<0.0500		mg/L	50	0.00100
Ethylbenzene	Qs	1	**0.582**		mg/L	50	0.00100
Xylene	Qs	1	**0.193**		mg/L	50	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.90	mg/L	50	5.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			3.90	mg/L	50	5.00	78	70 - 130

Method Blanks

Method Blank (1) QC Batch: 109677

QC Batch: 109677 | Date Analyzed: 2014-02-26 | Analyzed By: AK
Prep Batch: 92741 | QC Preparation: 2014-02-25 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000238	mg/L	0.001
Toluene		1	<0.000181	mg/L	0.001
Ethylbenzene		1	<0.000247	mg/L	0.001
Xylene		1	<0.000189	mg/L	0.003

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0943	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0759	mg/L	1	0.100	76	70 - 130

Method Blank (1) QC Batch: 109731

QC Batch: 109731 | Date Analyzed: 2014-02-28 | Analyzed By: AK
Prep Batch: 92759 | QC Preparation: 2014-02-27 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000238	mg/L	0.001
Toluene		1	<0.000181	mg/L	0.001
Ethylbenzene		1	<0.000247	mg/L	0.001
Xylene		1	<0.000189	mg/L	0.003

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0990	mg/L	1	0.100	99	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0745	mg/L	1	0.100	74	70 - 130

Method Blank (1) QC Batch: 109768

QC Batch: 109768 | Date Analyzed: 2014-03-02 | Analyzed By: AK
Prep Batch: 92819 | QC Preparation: 2014-03-01 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000238	mg/L	0.001
Toluene		1	<0.000181	mg/L	0.001
Ethylbenzene		1	<0.000247	mg/L	0.001
Xylene		1	<0.000189	mg/L	0.003

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0987	mg/L	1	0.100	99	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0762	mg/L	1	0.100	76	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109677 | Date Analyzed: 2014-02-26 | Analyzed By: AK
Prep Batch: 92741 | QC Preparation: 2014-02-25 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.108	mg/L	1	0.100	<0.000238	108	70 - 130
Toluene		1	0.110	mg/L	1	0.100	<0.000181	110	70 - 130
Ethylbenzene		1	0.111	mg/L	1	0.100	<0.000247	111	70 - 130
Xylene		1	0.337	mg/L	1	0.300	<0.000189	112	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		1	0.101	mg/L	1	0.100	<0.000238	101	70 - 130	6	20
Toluene		1	0.103	mg/L	1	0.100	<0.000181	103	70 - 130	7	20
Ethylbenzene		1	0.102	mg/L	1	0.100	<0.000247	102	70 - 130	8	20
Xylene		1	0.312	mg/L	1	0.300	<0.000189	104	70 - 130	8	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.101	0.100	mg/L	1	0.100	101	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0954	0.0938	mg/L	1	0.100	95	94	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 109731 | Date Analyzed: 2014-02-28 | Analyzed By: AK
Prep Batch: 92759 | QC Preparation: 2014-02-27 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.103	mg/L	1	0.100	<0.000238	103	70 - 130
Toluene		1	0.108	mg/L	1	0.100	<0.000181	108	70 - 130
Ethylbenzene		1	0.110	mg/L	1	0.100	<0.000247	110	70 - 130
Xylene		1	0.335	mg/L	1	0.300	<0.000189	112	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		1	0.101	mg/L	1	0.100	<0.000238	101	70 - 130	2	20
Toluene		1	0.105	mg/L	1	0.100	<0.000181	105	70 - 130	3	20
Ethylbenzene		1	0.107	mg/L	1	0.100	<0.000247	107	70 - 130	3	20
Xylene		1	0.324	mg/L	1	0.300	<0.000189	108	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)	0.103	0.102	mg/L	1	0.100	103	102	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0931	0.0920	mg/L	1	0.100	93	92	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 109768 | Date Analyzed: 2014-03-02 | Analyzed By: AK
Prep Batch: 92819 | QC Preparation: 2014-03-01 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.102	mg/L	1	0.100	<0.000238	102	70 - 130
Toluene		1	0.103	mg/L	1	0.100	<0.000181	103	70 - 130
Ethylbenzene		1	0.104	mg/L	1	0.100	<0.000247	104	70 - 130
Xylene		1	0.316	mg/L	1	0.300	<0.000189	105	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		1	0.106	mg/L	1	0.100	<0.000238	106	70 - 130	4	20
Toluene		1	0.108	mg/L	1	0.100	<0.000181	108	70 - 130	5	20
Ethylbenzene		1	0.108	mg/L	1	0.100	<0.000247	108	70 - 130	4	20
Xylene		1	0.329	mg/L	1	0.300	<0.000189	110	70 - 130	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.102	0.101	mg/L	1	0.100	102	101	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0947	0.0939	mg/L	1	0.100	95	94	70 - 130

Matrix Spike (MS-1) Spiked Sample: 355708

QC Batch: 109677 | Date Analyzed: 2014-02-26 | Analyzed By: AK
Prep Batch: 92741 | QC Preparation: 2014-02-25 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0704	mg/L	1	0.100	<0.000238	70	70 - 130
Toluene		1	0.0704	mg/L	1	0.100	<0.000181	70	70 - 130
Ethylbenzene	Qs	Qs 1	0.0682	mg/L	1	0.100	<0.000247	68	70 - 130
Xylene	Qs	Qs 1	0.209	mg/L	1	0.300	<0.000189	70	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	Qr,Qs	Qr,Qs 1	0.0532	mg/L	1	0.100	<0.000238	53	70 - 130	28	20
Toluene	Qr,Qs	Qr,Qs 1	0.0522	mg/L	1	0.100	<0.000181	52	70 - 130	30	20
Ethylbenzene	Qr,Qs	Qr,Qs 1	0.0497	mg/L	1	0.100	<0.000247	50	70 - 130	31	20
Xylene	Qr,Qs	Qr,Qs 1	0.153	mg/L	1	0.300	<0.000189	51	70 - 130	31	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)	0.101	0.102	mg/L	1	0.1	101	102	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0926	0.0886	mg/L	1	0.1	93	89	70 - 130

Matrix Spike (MS-1) Spiked Sample: 356066

QC Batch: 109731 | Date Analyzed: 2014-02-28 | Analyzed By: AK
Prep Batch: 92759 | QC Preparation: 2014-02-27 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	Qs	Qs 1	0.0361	mg/L	1	0.100	<0.000238	36	70 - 130
Toluene	Qs	Qs 1	0.0356	mg/L	1	0.100	<0.000181	36	70 - 130
Ethylbenzene	Qs	Qs 1	0.0342	mg/L	1	0.100	<0.000247	34	70 - 130
Xylene	Qs	Qs 1	0.105	mg/L	1	0.300	<0.000189	35	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	Qs	Qs 1	0.0355	mg/L	1	0.100	<0.000238	36	70 - 130	2	20
Toluene	Qs	Qs 1	0.0344	mg/L	1	0.100	<0.000181	34	70 - 130	3	20

continued ...

matrix spikes continued ...

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene	Qs	Qs	0.0332	mg/L	1	0.100	<0.000247	33	70 - 130	3	20
Xylene	Qs	Qs	0.102	mg/L	1	0.300	<0.000189	34	70 - 130	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.100	0.100	mg/L	1	0.1	100	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0847	0.0854	mg/L	1	0.1	85	85	70 - 130

Matrix Spike (MS-1) Spiked Sample: 356098

QC Batch: 109768 | Date Analyzed: 2014-03-02 | Analyzed By: AK
Prep Batch: 92819 | QC Preparation: 2014-03-01 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.104	mg/L	1	0.100	0.0018	102	70 - 130
Toluene		1	0.102	mg/L	1	0.100	<0.000181	102	70 - 130
Ethylbenzene		1	0.101	mg/L	1	0.100	<0.000247	101	70 - 130
Xylene		1	0.305	mg/L	1	0.300	<0.000189	102	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		1	0.0971	mg/L	1	0.100	0.0018	95	70 - 130	7	20
Toluene		1	0.0961	mg/L	1	0.100	<0.000181	96	70 - 130	6	20
Ethylbenzene		1	0.0945	mg/L	1	0.100	<0.000247	94	70 - 130	7	20
Xylene		1	0.286	mg/L	1	0.300	<0.000189	95	70 - 130	6	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.100	0.101	mg/L	1	0.1	100	101	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0921	0.0919	mg/L	1	0.1	92	92	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 109677 | Date Analyzed: 2014-02-26 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.108	108	80 - 120	2014-02-26
Toluene		1	mg/L	0.100	0.109	109	80 - 120	2014-02-26
Ethylbenzene		1	mg/L	0.100	0.108	108	80 - 120	2014-02-26
Xylene		1	mg/L	0.300	0.330	110	80 - 120	2014-02-26

Standard (CCV-2)

QC Batch: 109677 | Date Analyzed: 2014-02-26 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.101	101	80 - 120	2014-02-26
Toluene		1	mg/L	0.100	0.102	102	80 - 120	2014-02-26
Ethylbenzene		1	mg/L	0.100	0.101	101	80 - 120	2014-02-26
Xylene		1	mg/L	0.300	0.308	103	80 - 120	2014-02-26

Standard (CCV-3)

QC Batch: 109677 | Date Analyzed: 2014-02-26 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.106	106	80 - 120	2014-02-26
Toluene		1	mg/L	0.100	0.107	107	80 - 120	2014-02-26
Ethylbenzene		1	mg/L	0.100	0.105	105	80 - 120	2014-02-26
Xylene		1	mg/L	0.300	0.320	107	80 - 120	2014-02-26

Standard (CCV-1)

QC Batch: 109731 Date Analyzed: 2014-02-28 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.103	103	80 - 120	2014-02-28
Toluene		1	mg/L	0.100	0.104	104	80 - 120	2014-02-28
Ethylbenzene		1	mg/L	0.100	0.101	101	80 - 120	2014-02-28
Xylene		1	mg/L	0.300	0.308	103	80 - 120	2014-02-28

Standard (CCV-2)

QC Batch: 109731 Date Analyzed: 2014-02-28 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0990	99	80 - 120	2014-02-28
Toluene		1	mg/L	0.100	0.104	104	80 - 120	2014-02-28
Ethylbenzene		1	mg/L	0.100	0.104	104	80 - 120	2014-02-28
Xylene		1	mg/L	0.300	0.317	106	80 - 120	2014-02-28

Standard (CCV-3)

QC Batch: 109731 Date Analyzed: 2014-02-28 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.104	104	80 - 120	2014-02-28
Toluene		1	mg/L	0.100	0.108	108	80 - 120	2014-02-28
Ethylbenzene		1	mg/L	0.100	0.109	109	80 - 120	2014-02-28
Xylene		1	mg/L	0.300	0.333	111	80 - 120	2014-02-28

Standard (CCV-4)

QC Batch: 109731 Date Analyzed: 2014-02-28 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.109	109	80 - 120	2014-02-28
Toluene		1	mg/L	0.100	0.111	111	80 - 120	2014-02-28
Ethylbenzene		1	mg/L	0.100	0.110	110	80 - 120	2014-02-28
Xylene		1	mg/L	0.300	0.334	111	80 - 120	2014-02-28

Standard (CCV-1)

QC Batch: 109768 Date Analyzed: 2014-03-02 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.110	110	80 - 120	2014-03-02
Toluene		1	mg/L	0.100	0.111	111	80 - 120	2014-03-02
Ethylbenzene		1	mg/L	0.100	0.109	109	80 - 120	2014-03-02
Xylene		1	mg/L	0.300	0.332	111	80 - 120	2014-03-02

Standard (CCV-2)

QC Batch: 109768 Date Analyzed: 2014-03-02 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.101	101	80 - 120	2014-03-02
Toluene		1	mg/L	0.100	0.102	102	80 - 120	2014-03-02
Ethylbenzene		1	mg/L	0.100	0.102	102	80 - 120	2014-03-02
Xylene		1	mg/L	0.300	0.311	104	80 - 120	2014-03-02

Standard (CCV-3)

QC Batch: 109768 Date Analyzed: 2014-03-02 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.109	109	80 - 120	2014-03-02

continued ...

standard continued ...

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		1	mg/L	0.100	0.111	111	80 - 120	2014-03-02
Ethylbenzene		1	mg/L	0.100	0.110	110	80 - 120	2014-03-02
Xylene		1	mg/L	0.300	0.335	112	80 - 120	2014-03-02

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-13-7	Midland

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 then 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.
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 # 14022502

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
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BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Brandon & Clark
3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

Company Name: Nova
Phone #: 432 520 7720
Address: (Street, City, Zip) 2057 commerce Dr
Fax #:
Contact Person: curt stanley
E-mail:
Invoice to: (If different from above)
Project #: 2002-10286
Project Name: 34J Lea
Project Location (including state): NM
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
55701	mw-6	VOA	VOA	X				X				X		2/24/14	1215
702	mw-5														1228
703	mw-3														1245
704	mw-2														1302
705	mw-10														1318
706	mw-7														1343
707	mw-1														1405

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC							Turn Around Time if different from standard	Hold
	X																								
	X																								
	X																								
	X																								
	X																								
	X																								
	X																								

Relinquished by: John Flores **Company:** Nova **Date:** 2/25/14 **Time:**
Received by: [signature] **Company:** TA **Date:** 2/25/14 **Time:** 8:14
INST 4.1 °C
OBS 4.1 °C
COR 4.0 °C

Relinquished by: **Company:** **Date:** **Time:**
Received by: **Company:** **Date:** **Time:**
INST ____ °C
OBS ____ °C
COR ____ °C

Relinquished by: **Company:** **Date:** **Time:**
Received by: **Company:** **Date:** **Time:**
INST ____ °C
OBS ____ °C
COR ____ °C

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

REMARKS: Midland all

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

Carrier # Carrie

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

ORIGINAL COPY

TRACEANALYSIS, INC.

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: March 19, 2014

Work Order: 14022504

Project Location: New Mexico
Project Name: 34 Junction to Lea Station
Project Number: 2002-10286
SRS #: 2002-10286

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
355711	MW-11A	water	2014-02-24	14:35	2014-02-25
355712	MW-12	water	2014-02-24	15:12	2014-02-25

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

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

Report Contents

Case Narrative

Samples for project 34 Junction to Lea Station were received by TraceAnalysis, Inc. on 2014-02-25 and assigned to work order 14022504. Samples for work order 14022504 were received intact without headspace and at a temperature of 4.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Ag, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13
Alkalinity	SM 2320B	92737	2014-02-26 at 08:15	109671	2014-02-26 at 15:15
Al, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13
As, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13
Ba, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13
B, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13
Ca, Dissolved	S 6010C	92846	2014-03-03 at 12:20	109816	2014-03-03 at 15:36
Cd, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13
Chloride (IC)	E 300.0	92882	2014-03-03 at 21:16	109844	2014-03-03 at 21:16
Chloride (IC)	E 300.0	93014	2014-02-26 at 12:13	109997	2014-02-26 at 12:13
Conductivity	SM 2510B	92733	2014-02-26 at 08:05	109666	2014-02-26 at 14:10
Co, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13
Cr, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13
Cu, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13
Fe, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13
Fluoride (IC)	E 300.0	92858	2014-02-27 at 11:43	109813	2014-02-27 at 11:43
Hg, Total	S 7470A	92796	2014-02-28 at 08:10	109750	2014-02-28 at 13:30
K, Dissolved	S 6010C	92846	2014-03-03 at 12:20	109816	2014-03-03 at 15:36
Mg, Dissolved	S 6010C	92846	2014-03-03 at 12:20	109816	2014-03-03 at 15:36
Mn, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13
Mo, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13
Na, Dissolved	S 6010C	92846	2014-03-03 at 12:20	109816	2014-03-03 at 15:36
Ni, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13
NO3 (IC)	E 300.0	93014	2014-02-26 at 12:13	109997	2014-02-26 at 12:13
Pb, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13
pH	SM 4500-H+	92717	2014-02-25 at 13:47	109642	2014-02-25 at 14:47
PO4 (IC)	E 300.0	93014	2014-02-26 at 12:13	109997	2014-02-26 at 12:13
Semivolatiles	S 8270D	93051	2014-03-01 at 15:00	110046	2014-03-11 at 14:14
Se, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13
SO4 (IC)	E 300.0	92882	2014-03-03 at 21:16	109844	2014-03-03 at 21:16
SO4 (IC)	E 300.0	93014	2014-02-26 at 12:13	109997	2014-02-26 at 12:13
Volatiles	S 8260 C	92763	2014-02-26 at 12:00	109698	2014-02-26 at 12:00
Zn, Total	S 6010C	92785	2014-02-27 at 20:00	109792	2014-02-28 at 13:13

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

14022504 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 355711 - MW-11A

Laboratory:	Lubbock				
Analysis:	Al, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Aluminum		2	**32.9**	mg/L	10	0.0500

Sample: 355711 - MW-11A

Laboratory:	Midland				
Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	109671	Date Analyzed:	2014-02-26	Analyzed By:	AR
Prep Batch:	92737	Sample Preparation:	2014-02-26	Prepared By:	AR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Hydroxide Alkalinity	U	3	<20.0	mg/L as CaCo3	1	20.0
Carbonate Alkalinity	U	3	<20.0	mg/L as CaCo3	1	20.0
Bicarbonate Alkalinity		3	**548**	mg/L as CaCo3	1	20.0
Total Alkalinity		3	**548**	mg/L as CaCo3	1	20.0

Sample: 355711 - MW-11A

Laboratory:	Lubbock				
Analysis:	B, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Boron	U	2	<0.0100	mg/L	1	0.0100

Sample: 355711 - MW-11A

Laboratory:	Lubbock				
Analysis:	Cations	Analytical Method:	S 6010C	Prep Method:	S 3005A
QC Batch:	109816	Date Analyzed:	2014-03-03	Analyzed By:	RR
Prep Batch:	92846	Sample Preparation:	2014-03-03	Prepared By:	PM

Parameter	Flag	Cert	Result	Units	Dilution	RL
Dissolved Calcium		2	**320**	mg/L	1	1.00
Dissolved Potassium		2	**69.1**	mg/L	1	1.00
Dissolved Magnesium		2	**300**	mg/L	1	1.00
Dissolved Sodium		2	**3210**	mg/L	100	1.00

Sample: 355711 - MW-11A

Laboratory:	Lubbock				
Analysis:	Co, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	Result	Units	Dilution	RL
Total Cobalt	U		<0.0100	mg/L	1	0.0100

Sample: 355711 - MW-11A

Laboratory:	Midland				
Analysis:	Conductivity	Analytical Method:	SM 2510B	Prep Method:	N/A
QC Batch:	109666	Date Analyzed:	2014-02-26	Analyzed By:	AR
Prep Batch:	92733	Sample Preparation:	2014-02-26	Prepared By:	AR

Parameter	Flag	Cert	Result	Units	Dilution	RL
Specific Conductance		3	**12000**	uMHOS/cm	1	0.00

Sample: 355711 - MW-11A

Laboratory:	Lubbock				
Analysis:	Cu, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Copper	U		<0.00500	mg/L	1	0.00500

Sample: 355711 - MW-11A

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron			**27.8**	mg/L	1	0.0100

Sample: 355711 - MW-11A

Laboratory:	El Paso				
Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	109813	Date Analyzed:	2014-02-27	Analyzed By:	JR
Prep Batch:	92858	Sample Preparation:	2014-02-27	Prepared By:	JR
QC Batch:	109997	Date Analyzed:	2014-02-26	Analyzed By:	JR
Prep Batch:	93014	Sample Preparation:	2014-02-26	Prepared By:	JR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Fluoride		1	**4.99**	mg/L	5	0.500
Chloride		1	**2630**	mg/L	100	2.50
Nitrate-N	U	1	<2.50	mg/L	5	0.500
PO4-P	U	1	<4.08	mg/L	5	0.815
Sulfate		1	**2700**	mg/L	100	2.50

Sample: 355711 - MW-11A

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		2	**0.210**	mg/L	1	0.00500

Sample: 355711 - MW-11A

Laboratory:	Lubbock				
Analysis:	Mo, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Molybdenum	U	2	<0.0500		mg/L	1	0.0500

Sample: 355711 - MW-11A

Laboratory:	Lubbock				
Analysis:	Ni, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Nickel	U	2	<0.0100		mg/L	1	0.0100

Sample: 355711 - MW-11A

Laboratory:	Midland				
Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	109642	Date Analyzed:	2014-02-25	Analyzed By:	AR
Prep Batch:	92717	Sample Preparation:	2014-02-25	Prepared By:	AR

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
pH		3	**7.16**		s.u.	1	0.00

Sample: 355711 - MW-11A

Laboratory:	Lubbock				
Analysis:	Semivolatiles	Analytical Method:	S 8270D	Prep Method:	S 3510C
QC Batch:	110046	Date Analyzed:	2014-03-11	Analyzed By:	MN
Prep Batch:	93051	Sample Preparation:	2014-03-01	Prepared By:	MN

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Pyridine	U	2	<0.00461		mg/L	0.922	0.00500
N-Nitrosodimethylamine	U	2	<0.00461		mg/L	0.922	0.00500

continued . . .

sample 355711 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
2-Picoline	U	2	<0.00461	mg/L	0.922	0.00500
Methyl methanesulfonate	U	2	<0.00461	mg/L	0.922	0.00500
Ethyl methanesulfonate	U	2	<0.00461	mg/L	0.922	0.00500
Phenol	U	2	<0.00461	mg/L	0.922	0.00500
Aniline	U	2	<0.00461	mg/L	0.922	0.00500
bis(2-chloroethyl)ether	U	2	<0.00461	mg/L	0.922	0.00500
2-Chlorophenol	U	2	<0.00461	mg/L	0.922	0.00500
1,3-Dichlorobenzene (meta)	U	2	<0.00461	mg/L	0.922	0.00500
1,4-Dichlorobenzene (para)	U	2	<0.00461	mg/L	0.922	0.00500
Benzyl alcohol	U	2	<0.00461	mg/L	0.922	0.00500
1,2-Dichlorobenzene (ortho)	U	2	<0.00461	mg/L	0.922	0.00500
2-Methylphenol	U	2	<0.00461	mg/L	0.922	0.00500
bis(2-chloroisopropyl)ether	U	2	<0.00461	mg/L	0.922	0.00500
4-Methylphenol / 3-Methylphenol	U	2	<0.00461	mg/L	0.922	0.00500
N-Nitrosodi-n-propylamine	U	2	<0.00461	mg/L	0.922	0.00500
Hexachloroethane	U	2	<0.00461	mg/L	0.922	0.00500
Acetophenone	U	2	<0.00461	mg/L	0.922	0.00500
Nitrobenzene	U	2	<0.00461	mg/L	0.922	0.00500
N-Nitrosopiperidine	U	2	<0.00461	mg/L	0.922	0.00500
Isophorone	U	2	<0.00461	mg/L	0.922	0.00500
2-Nitrophenol	U	2	<0.00461	mg/L	0.922	0.00500
2,4-Dimethylphenol	U	2	<0.00461	mg/L	0.922	0.00500
bis(2-chloroethoxy)methane	U	2	<0.00461	mg/L	0.922	0.00500
2,4-Dichlorophenol	U	2	<0.00461	mg/L	0.922	0.00500
1,2,4-Trichlorobenzene	U	2	<0.00461	mg/L	0.922	0.00500
Benzoic acid	U	2	<0.00461	mg/L	0.922	0.00500
Naphthalene	U	2	<0.00461	mg/L	0.922	0.00500
4-Chloroaniline	U	2	<0.00461	mg/L	0.922	0.00500
2,6-Dichlorophenol	U	2	<0.00922	mg/L	0.922	0.0100
Hexachlorobutadiene	U	2	<0.00461	mg/L	0.922	0.00500
N-Nitroso-di-n-butylamine	U	2	<0.00461	mg/L	0.922	0.00500
4-Chloro-3-methylphenol	U	2	<0.00461	mg/L	0.922	0.00500
2-Methylnaphthalene	U	2	<0.00461	mg/L	0.922	0.00500
1-Methylnaphthalene	U		<0.00461	mg/L	0.922	0.00500
1,2,4,5-Tetrachlorobenzene	U	2	<0.00461	mg/L	0.922	0.00500
Hexachlorocyclopentadiene	U	2	<0.00461	mg/L	0.922	0.00500
2,4,6-Trichlorophenol	U	2	<0.00922	mg/L	0.922	0.0100
2,4,5-Trichlorophenol	U	2	<0.00461	mg/L	0.922	0.00500
2-Chloronaphthalene	U	2	<0.00461	mg/L	0.922	0.00500
1-Chloronaphthalene	U	2	<0.00461	mg/L	0.922	0.00500
2-Nitroaniline	U	2	<0.00461	mg/L	0.922	0.00500
Dimethylphthalate	U	2	<0.00461	mg/L	0.922	0.00500
Acenaphthylene	U	2	<0.00461	mg/L	0.922	0.00500

continued . . .

sample 355711 continued . . .

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
2,6-Dinitrotoluene	U	2	<0.00461		mg/L	0.922	0.00500
3-Nitroaniline	U	2	<0.00461		mg/L	0.922	0.00500
Acenaphthene	U	2	<0.00461		mg/L	0.922	0.00500
2,4-Dinitrophenol	U	2	<0.00461		mg/L	0.922	0.00500
Dibenzofuran	U	2	<0.00461		mg/L	0.922	0.00500
Pentachlorobenzene	U	2	<0.00461		mg/L	0.922	0.00500
4-Nitrophenol	U	2	<0.0230		mg/L	0.922	0.0250
2,4-Dinitrotoluene	U	2	<0.00461		mg/L	0.922	0.00500
1-Naphthylamine	U	2	<0.00461		mg/L	0.922	0.00500
2,3,4,6-Tetrachlorophenol	U	2	<0.00922		mg/L	0.922	0.0100
2-Naphthylamine	U	2	<0.00461		mg/L	0.922	0.00500
Fluorene	U	2	<0.00461		mg/L	0.922	0.00500
4-Chlorophenyl-phenylether	U	2	<0.00461		mg/L	0.922	0.00500
Diethylphthalate	U	2	<0.00461		mg/L	0.922	0.00500
4-Nitroaniline	U	2	<0.00461		mg/L	0.922	0.00500
Diphenylhydrazine	U		<0.00461		mg/L	0.922	0.00500
4,6-Dinitro-2-methylphenol	U	2	<0.00461		mg/L	0.922	0.00500
Diphenylamine	U	2	<0.00461		mg/L	0.922	0.00500
4-Bromophenyl-phenylether	U	2	<0.00461		mg/L	0.922	0.00500
Phenacetin	U	2	<0.00461		mg/L	0.922	0.00500
Hexachlorobenzene	U	2	<0.00461		mg/L	0.922	0.00500
4-Aminobiphenyl	U	2	<0.00461		mg/L	0.922	0.00500
Pentachlorophenol	U	2	<0.00922		mg/L	0.922	0.0100
Anthracene	U	2	<0.00461		mg/L	0.922	0.00500
Pentachloronitrobenzene	U	2	<0.00461		mg/L	0.922	0.00500
Pronamide	U	2	<0.00461		mg/L	0.922	0.00500
Phenanthrene	U	2	<0.00461		mg/L	0.922	0.00500
Di-n-butylphthalate	U	2	<0.00461		mg/L	0.922	0.00500
Fluoranthene	U	2	<0.00461		mg/L	0.922	0.00500
Benzidine	U	2	<0.0230		mg/L	0.922	0.0250
Pyrene	U	2	<0.00461		mg/L	0.922	0.00500
p-Dimethylaminoazobenzene	U		<0.00461		mg/L	0.922	0.00500
Butylbenzylphthalate	U	2	<0.00461		mg/L	0.922	0.00500
Benzo(a)anthracene	U	2	<0.00461		mg/L	0.922	0.00500
3,3-Dichlorobenzidine	U	2	<0.00461		mg/L	0.922	0.00500
Chrysene	U	2	<0.00461		mg/L	0.922	0.00500
bis(2-ethylhexyl)phthalate	U	2	<0.00461		mg/L	0.922	0.00500
Di-n-octylphthalate	U	2	<0.00461		mg/L	0.922	0.00500
Benzo(b)fluoranthene	U	2	<0.00461		mg/L	0.922	0.00500
Benzo(k)fluoranthene	U	2	<0.00461		mg/L	0.922	0.00500
7,12-Dimethylbenz(a)anthracene	U	2	<0.00461		mg/L	0.922	0.00500
Benzo(a)pyrene	U	2	<0.00461		mg/L	0.922	0.00500
3-Methylcholanthrene	U	2	<0.00461		mg/L	0.922	0.00500

continued . . .

sample 355711 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Dibenzo(a,j)acridine	U	2	<0.00461	mg/L	0.922	0.00500
Indeno(1,2,3-cd)pyrene	U	2	<0.00461	mg/L	0.922	0.00500
Dibenzo(a,h)anthracene	U	2	<0.00461	mg/L	0.922	0.00500
Benzo(g,h,i)perylene	U	2	<0.00461	mg/L	0.922	0.00500

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol				0.0186	mg/L	0.922	0.0800	23	19 - 119
Phenol-d5				0.0138	mg/L	0.922	0.0800	17	10 - 120
Nitrobenzene-d5	Qsr	Qsr		0.0340	mg/L	0.922	0.0800	42	44 - 120
2-Fluorobiphenyl				0.0401	mg/L	0.922	0.0800	50	44 - 119
2,4,6-Tribromophenol	Qc	Qc		0.0627	mg/L	0.922	0.0800	78	43 - 140
Terphenyl-d14				0.0533	mg/L	0.922	0.0800	67	50 - 134

Sample: 355711 - MW-11A

Laboratory:	Lubbock				
Analysis:	Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	N/A
QC Batch:	109750	Date Analyzed:	2014-02-28	Analyzed By:	TP
Prep Batch:	92796	Sample Preparation:	2014-02-28	Prepared By:	TP
Laboratory:	Lubbock				
Analysis:	Total 8 Metals	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Silver	U	2	<0.00500	mg/L	1	0.00500
Total Arsenic		2	**0.338**	mg/L	1	0.0100
Total Barium		2	**0.562**	mg/L	1	0.0100
Total Cadmium	U	2	<0.0100	mg/L	1	0.0100
Total Chromium	U	2	<0.0100	mg/L	1	0.0100
Total Mercury	U	2	<0.000200	mg/L	1	0.000200
Total Lead	U	2	<0.0100	mg/L	1	0.0100
Total Selenium	U	2	<0.0200	mg/L	1	0.0200

Sample: 355711 - MW-11A

Laboratory:	Lubbock				
Analysis:	Volatiles	Analytical Method:	S 8260 C	Prep Method:	S 5030B
QC Batch:	109698	Date Analyzed:	2014-02-26	Analyzed By:	KB
Prep Batch:	92763	Sample Preparation:	2014-02-26	Prepared By:	KB

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Bromochloromethane	U	2	<1.00	µg/L	1	1.00
Dichlorodifluoromethane	Qc,U	2	<1.00	µg/L	1	1.00
Chloromethane (methyl chloride)	U	2	<1.00	µg/L	1	1.00
Vinyl Chloride	U	2	<1.00	µg/L	1	1.00
Bromomethane (methyl bromide)	U	2	<5.00	µg/L	1	5.00
Chloroethane	U	2	<1.00	µg/L	1	1.00
Trichlorofluoromethane	U	2	<1.00	µg/L	1	1.00
Acetone	Qc,U	2	<10.0	µg/L	1	10.0
Iodomethane (methyl iodide)	Qs,U	2	<5.00	µg/L	1	5.00
Carbon Disulfide	U	2	<1.00	µg/L	1	1.00
Acrylonitrile	U	2	<1.00	µg/L	1	1.00
2-Butanone (MEK)	Qc,U	2	<5.00	µg/L	1	5.00
4-Methyl-2-pentanone (MIBK)	U	2	<5.00	µg/L	1	5.00
2-Hexanone	Qc,U	2	<5.00	µg/L	1	5.00
trans 1,4-Dichloro-2-butene	Qc,U	2	<10.0	µg/L	1	10.0
1,1-Dichloroethene	U	2	<1.00	µg/L	1	1.00
Methylene chloride	U	2	<5.00	µg/L	1	5.00
MTBE	U	2	<1.00	µg/L	1	1.00
trans-1,2-Dichloroethene	U	2	<1.00	µg/L	1	1.00
1,1-Dichloroethane	U	2	<1.00	µg/L	1	1.00
cis-1,2-Dichloroethene	U	2	<1.00	µg/L	1	1.00
2,2-Dichloropropane	U	2	<1.00	µg/L	1	1.00
1,2-Dichloroethane (EDC)	Qc,U	2	<1.00	µg/L	1	1.00
Chloroform	U	2	<1.00	µg/L	1	1.00
1,1,1-Trichloroethane	U	2	<1.00	µg/L	1	1.00
1,1-Dichloropropene	U	2	<1.00	µg/L	1	1.00
Benzene	U	2	<1.00	µg/L	1	1.00
Carbon Tetrachloride	U	2	<1.00	µg/L	1	1.00
1,2-Dichloropropane	U	2	<1.00	µg/L	1	1.00
Trichloroethene (TCE)	U	2	<1.00	µg/L	1	1.00
Dibromomethane (methylene bromide)	U	2	<1.00	µg/L	1	1.00
Bromodichloromethane	U	2	<1.00	µg/L	1	1.00
2-Chloroethyl vinyl ether	Qc,U	2	<5.00	µg/L	1	5.00
cis-1,3-Dichloropropene	U	2	<1.00	µg/L	1	1.00
trans-1,3-Dichloropropene	U	2	<1.00	µg/L	1	1.00
Toluene	U	2	<1.00	µg/L	1	1.00
1,1,2-Trichloroethane	U	2	<1.00	µg/L	1	1.00
1,3-Dichloropropane	U	2	<1.00	µg/L	1	1.00
Dibromochloromethane	U	2	<1.00	µg/L	1	1.00

continued . . .

sample 355711 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
1,2-Dibromoethane (EDB)	U	2	<1.00	µg/L	1	1.00
Tetrachloroethene (PCE)	Qc,U	2	<1.00	µg/L	1	1.00
Chlorobenzene	U	2	<1.00	µg/L	1	1.00
1,1,1,2-Tetrachloroethane	U	2	<1.00	µg/L	1	1.00
Ethylbenzene	U	2	<1.00	µg/L	1	1.00
m,p-Xylene	Qs,U	2	<1.00	µg/L	1	1.00
Bromoform	U	2	<1.00	µg/L	1	1.00
Styrene	Qs,U	2	<1.00	µg/L	1	1.00
o-Xylene	U	2	<1.00	µg/L	1	1.00
1,1,2,2-Tetrachloroethane	U	2	<1.00	µg/L	1	1.00
2-Chlorotoluene	U	2	<1.00	µg/L	1	1.00
1,2,3-Trichloropropane	U	2	<1.00	µg/L	1	1.00
Isopropylbenzene	U	2	<1.00	µg/L	1	1.00
Bromobenzene	U	2	<1.00	µg/L	1	1.00
n-Propylbenzene	U	2	<1.00	µg/L	1	1.00
1,3,5-Trimethylbenzene	Qs,U	2	<1.00	µg/L	1	1.00
tert-Butylbenzene	U	2	<1.00	µg/L	1	1.00
1,2,4-Trimethylbenzene	Qr,Qs,U	2	<1.00	µg/L	1	1.00
1,4-Dichlorobenzene (para)	U	2	<1.00	µg/L	1	1.00
sec-Butylbenzene	U	2	<1.00	µg/L	1	1.00
1,3-Dichlorobenzene (meta)	U	2	<1.00	µg/L	1	1.00
p-Isopropyltoluene	U	2	<1.00	µg/L	1	1.00
4-Chlorotoluene	U	2	<1.00	µg/L	1	1.00
1,2-Dichlorobenzene (ortho)	U	2	<1.00	µg/L	1	1.00
n-Butylbenzene	U	2	<1.00	µg/L	1	1.00
1,2-Dibromo-3-chloropropane	Qc,U	2	<5.00	µg/L	1	5.00
1,2,3-Trichlorobenzene	U	2	<5.00	µg/L	1	5.00
1,2,4-Trichlorobenzene	U	2	<5.00	µg/L	1	5.00
Naphthalene	U	2	<5.00	µg/L	1	5.00
Hexachlorobutadiene	Jb	2	<5.00	µg/L	1	5.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane			49.4	µg/L	1	50.0	99	70 - 130
Toluene-d8			50.4	µg/L	1	50.0	101	70 - 130
4-Bromofluorobenzene (4-BFB)			47.1	µg/L	1	50.0	94	70 - 130

Sample: 355711 - MW-11A

Laboratory:	Lubbock				
Analysis:	Zn, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Zinc	U	2	<0.0100	mg/L	1	0.0100

Sample: 355712 - MW-12

Laboratory:	Lubbock				
Analysis:	Al, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Aluminum		2	**118**	mg/L	10	0.0500

Sample: 355712 - MW-12

Laboratory:	Midland				
Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	109671	Date Analyzed:	2014-02-26	Analyzed By:	AR
Prep Batch:	92737	Sample Preparation:	2014-02-26	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Hydroxide Alkalinity	U	3	<20.0	mg/L as CaCo3	1	20.0
Carbonate Alkalinity	U	3	<20.0	mg/L as CaCo3	1	20.0
Bicarbonate Alkalinity		3	**1080**	mg/L as CaCo3	1	20.0
Total Alkalinity		3	**1080**	mg/L as CaCo3	1	20.0

Sample: 355712 - MW-12

Laboratory:	Lubbock				
Analysis:	B, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Boron	U	2	<0.0100	mg/L	1	0.0100

Sample: 355712 - MW-12

Laboratory:	Lubbock				
Analysis:	Cations	Analytical Method:	S 6010C	Prep Method:	S 3005A
QC Batch:	109816	Date Analyzed:	2014-03-03	Analyzed By:	RR
Prep Batch:	92846	Sample Preparation:	2014-03-03	Prepared By:	PM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Dissolved Calcium		2	**131**		mg/L	1	1.00
Dissolved Potassium		2	**39.0**		mg/L	1	1.00
Dissolved Magnesium		2	**147**		mg/L	1	1.00
Dissolved Sodium		2	**1560**		mg/L	100	1.00

Sample: 355712 - MW-12

Laboratory:	Lubbock				
Analysis:	Co, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Cobalt	U		<0.0100		mg/L	1	0.0100

Sample: 355712 - MW-12

Laboratory:	Midland				
Analysis:	Conductivity	Analytical Method:	SM 2510B	Prep Method:	N/A
QC Batch:	109666	Date Analyzed:	2014-02-26	Analyzed By:	AR
Prep Batch:	92733	Sample Preparation:	2014-02-26	Prepared By:	AR

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Specific Conductance		3	**8790**		uMHOS/cm	1	0.00

Sample: 355712 - MW-12

Laboratory:	Lubbock				
Analysis:	Cu, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Copper			**0.0312**	mg/L	1	0.00500

Sample: 355712 - MW-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Iron			**115**	mg/L	10	0.0100

Sample: 355712 - MW-12

Laboratory:	El Paso				
Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	109813	Date Analyzed:	2014-02-27	Analyzed By:	JR
Prep Batch:	92858	Sample Preparation:	2014-02-27	Prepared By:	JR
QC Batch:	109844	Date Analyzed:	2014-03-03	Analyzed By:	JR
Prep Batch:	92882	Sample Preparation:	2014-03-03	Prepared By:	JR
QC Batch:	109997	Date Analyzed:	2014-02-26	Analyzed By:	JR
Prep Batch:	93014	Sample Preparation:	2014-02-26	Prepared By:	JR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Fluoride		1	**6.78**	mg/L	5	0.500
Chloride		1	**1500**	mg/L	50	2.50
Nitrate-N	H,U	1	<2.50	mg/L	5	0.500
PO4-P	H,U	1	<4.08	mg/L	5	0.815
Sulfate		1	**1710**	mg/L	50	2.50

Sample: 355712 - MW-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

continued . . .

sample 355712 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Manganese		2	**1.19**	mg/L	1	0.00500

Sample: 355712 - MW-12

Laboratory:	Lubbock				
Analysis:	Mo, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Molybdenum	U	2	<0.0500	mg/L	1	0.0500

Sample: 355712 - MW-12

Laboratory:	Lubbock				
Analysis:	Ni, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Nickel	U	2	<0.0100	mg/L	1	0.0100

Sample: 355712 - MW-12

Laboratory:	Midland				
Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	109642	Date Analyzed:	2014-02-25	Analyzed By:	AR
Prep Batch:	92717	Sample Preparation:	2014-02-25	Prepared By:	AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
pH		3	**7.21**	s.u.	1	0.00

Sample: 355712 - MW-12

Laboratory:	Lubbock				
Analysis:	Semivolatiles	Analytical Method:	S 8270D	Prep Method:	S 3510C
QC Batch:	110046	Date Analyzed:	2014-03-11	Analyzed By:	MN
Prep Batch:	93051	Sample Preparation:	2014-03-01	Prepared By:	MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Pyridine	U	2	<0.00465	mg/L	0.93	0.00500
N-Nitrosodimethylamine	U	2	<0.00465	mg/L	0.93	0.00500
2-Picoline	U	2	<0.00465	mg/L	0.93	0.00500
Methyl methanesulfonate	U	2	<0.00465	mg/L	0.93	0.00500
Ethyl methanesulfonate	U	2	<0.00465	mg/L	0.93	0.00500
Phenol	U	2	<0.00465	mg/L	0.93	0.00500
Aniline	U	2	<0.00465	mg/L	0.93	0.00500
bis(2-chloroethyl)ether	U	2	<0.00465	mg/L	0.93	0.00500
2-Chlorophenol	U	2	<0.00465	mg/L	0.93	0.00500
1,3-Dichlorobenzene (meta)	U	2	<0.00465	mg/L	0.93	0.00500
1,4-Dichlorobenzene (para)	U	2	<0.00465	mg/L	0.93	0.00500
Benzyl alcohol	U	2	<0.00465	mg/L	0.93	0.00500
1,2-Dichlorobenzene (ortho)	U	2	<0.00465	mg/L	0.93	0.00500
2-Methylphenol	U	2	<0.00465	mg/L	0.93	0.00500
bis(2-chloroisopropyl)ether	U	2	<0.00465	mg/L	0.93	0.00500
4-Methylphenol / 3-Methylphenol	U	2	<0.00465	mg/L	0.93	0.00500
N-Nitrosodi-n-propylamine	U	2	<0.00465	mg/L	0.93	0.00500
Hexachloroethane	U	2	<0.00465	mg/L	0.93	0.00500
Acetophenone	U	2	<0.00465	mg/L	0.93	0.00500
Nitrobenzene	U	2	<0.00465	mg/L	0.93	0.00500
N-Nitrosopiperidine	U	2	<0.00465	mg/L	0.93	0.00500
Isophorone	U	2	<0.00465	mg/L	0.93	0.00500
2-Nitrophenol	U	2	<0.00465	mg/L	0.93	0.00500
2,4-Dimethylphenol	U	2	<0.00465	mg/L	0.93	0.00500
bis(2-chloroethoxy)methane	U	2	<0.00465	mg/L	0.93	0.00500
2,4-Dichlorophenol	U	2	<0.00465	mg/L	0.93	0.00500
1,2,4-Trichlorobenzene	U	2	<0.00465	mg/L	0.93	0.00500
Benzoic acid	U	2	<0.00465	mg/L	0.93	0.00500
Naphthalene	U	2	<0.00465	mg/L	0.93	0.00500
4-Chloroaniline	U	2	<0.00465	mg/L	0.93	0.00500
2,6-Dichlorophenol	U	2	<0.00930	mg/L	0.93	0.0100
Hexachlorobutadiene	U	2	<0.00465	mg/L	0.93	0.00500
N-Nitroso-di-n-butylamine	U	2	<0.00465	mg/L	0.93	0.00500
4-Chloro-3-methylphenol	U	2	<0.00465	mg/L	0.93	0.00500
2-Methylnaphthalene	U	2	<0.00465	mg/L	0.93	0.00500
1-Methylnaphthalene	U		<0.00465	mg/L	0.93	0.00500
1,2,4,5-Tetrachlorobenzene	U	2	<0.00465	mg/L	0.93	0.00500
Hexachlorocyclopentadiene	U	2	<0.00465	mg/L	0.93	0.00500
2,4,6-Trichlorophenol	U	2	<0.00930	mg/L	0.93	0.0100

continued ...

sample 355712 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
2,4,5-Trichlorophenol	U	2	<0.00465	mg/L	0.93	0.00500
2-Chloronaphthalene	U	2	<0.00465	mg/L	0.93	0.00500
1-Chloronaphthalene	U	2	<0.00465	mg/L	0.93	0.00500
2-Nitroaniline	U	2	<0.00465	mg/L	0.93	0.00500
Dimethylphthalate	U	2	<0.00465	mg/L	0.93	0.00500
Acenaphthylene	U	2	<0.00465	mg/L	0.93	0.00500
2,6-Dinitrotoluene	U	2	<0.00465	mg/L	0.93	0.00500
3-Nitroaniline	U	2	<0.00465	mg/L	0.93	0.00500
Acenaphthene	U	2	<0.00465	mg/L	0.93	0.00500
2,4-Dinitrophenol	U	2	<0.00465	mg/L	0.93	0.00500
Dibenzofuran	U	2	<0.00465	mg/L	0.93	0.00500
Pentachlorobenzene	U	2	<0.00465	mg/L	0.93	0.00500
4-Nitrophenol	U	2	<0.0232	mg/L	0.93	0.0250
2,4-Dinitrotoluene	U	2	<0.00465	mg/L	0.93	0.00500
1-Naphthylamine	U	2	<0.00465	mg/L	0.93	0.00500
2,3,4,6-Tetrachlorophenol	U	2	<0.00930	mg/L	0.93	0.0100
2-Naphthylamine	U	2	<0.00465	mg/L	0.93	0.00500
Fluorene	U	2	<0.00465	mg/L	0.93	0.00500
4-Chlorophenyl-phenylether	U	2	<0.00465	mg/L	0.93	0.00500
Diethylphthalate	U	2	<0.00465	mg/L	0.93	0.00500
4-Nitroaniline	U	2	<0.00465	mg/L	0.93	0.00500
Diphenylhydrazine	U		<0.00465	mg/L	0.93	0.00500
4,6-Dinitro-2-methylphenol	U	2	<0.00465	mg/L	0.93	0.00500
Diphenylamine	U	2	<0.00465	mg/L	0.93	0.00500
4-Bromophenyl-phenylether	U	2	<0.00465	mg/L	0.93	0.00500
Phenacetin	U	2	<0.00465	mg/L	0.93	0.00500
Hexachlorobenzene	U	2	<0.00465	mg/L	0.93	0.00500
4-Aminobiphenyl	U	2	<0.00465	mg/L	0.93	0.00500
Pentachlorophenol	U	2	<0.00930	mg/L	0.93	0.0100
Anthracene	U	2	<0.00465	mg/L	0.93	0.00500
Pentachloronitrobenzene	U	2	<0.00465	mg/L	0.93	0.00500
Pronamide	U	2	<0.00465	mg/L	0.93	0.00500
Phenanthrene	U	2	<0.00465	mg/L	0.93	0.00500
Di-n-butylphthalate	U	2	<0.00465	mg/L	0.93	0.00500
Fluoranthene	U	2	<0.00465	mg/L	0.93	0.00500
Benzidine	U	2	<0.0232	mg/L	0.93	0.0250
Pyrene	U	2	<0.00465	mg/L	0.93	0.00500
p-Dimethylaminoazobenzene	U		<0.00465	mg/L	0.93	0.00500
Butylbenzylphthalate	U	2	<0.00465	mg/L	0.93	0.00500
Benzo(a)anthracene	U	2	<0.00465	mg/L	0.93	0.00500
3,3-Dichlorobenzidine	U	2	<0.00465	mg/L	0.93	0.00500
Chrysene	U	2	<0.00465	mg/L	0.93	0.00500
bis(2-ethylhexyl)phthalate	U	2	<0.00465	mg/L	0.93	0.00500

continued . . .

sample 355712 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Di-n-octylphthalate	U	2	<0.00465	mg/L	0.93	0.00500
Benzo(b)fluoranthene	U	2	<0.00465	mg/L	0.93	0.00500
Benzo(k)fluoranthene	U	2	<0.00465	mg/L	0.93	0.00500
7,12-Dimethylbenz(a)anthracene	U	2	<0.00465	mg/L	0.93	0.00500
Benzo(a)pyrene	U	2	<0.00465	mg/L	0.93	0.00500
3-Methylcholanthrene	U	2	<0.00465	mg/L	0.93	0.00500
Dibenzo(a,j)acridine	U	2	<0.00465	mg/L	0.93	0.00500
Indeno(1,2,3-cd)pyrene	U	2	<0.00465	mg/L	0.93	0.00500
Dibenzo(a,h)anthracene	U	2	<0.00465	mg/L	0.93	0.00500
Benzo(g,h,i)perylene	U	2	<0.00465	mg/L	0.93	0.00500

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol			0.0175	mg/L	0.93	0.0800	22	19 - 119
Phenol-d5			0.0109	mg/L	0.93	0.0800	14	10 - 120
Nitrobenzene-d5	Qsr	Qsr	0.0308	mg/L	0.93	0.0800	38	44 - 120
2-Fluorobiphenyl			0.0370	mg/L	0.93	0.0800	46	44 - 119
2,4,6-Tribromophenol	Qc	Qc	0.0690	mg/L	0.93	0.0800	86	43 - 140
Terphenyl-d14			0.0462	mg/L	0.93	0.0800	58	50 - 134

Sample: 355712 - MW-12

Laboratory:	Lubbock				
Analysis:	Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	N/A
QC Batch:	109750	Date Analyzed:	2014-02-28	Analyzed By:	TP
Prep Batch:	92796	Sample Preparation:	2014-02-28	Prepared By:	TP
Laboratory:	Lubbock				
Analysis:	Total 8 Metals	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Silver	U	2	<0.00500	mg/L	1	0.00500
Total Arsenic		2	**0.622**	mg/L	1	0.0100
Total Barium		2	**1.27**	mg/L	1	0.0100
Total Cadmium	U	2	<0.0100	mg/L	1	0.0100
Total Chromium		2	**0.113**	mg/L	1	0.0100
Total Mercury	U	2	<0.000200	mg/L	1	0.000200
Total Lead	U	2	<0.0100	mg/L	1	0.0100
Total Selenium	U	2	<0.0200	mg/L	1	0.0200

Sample: 355712 - MW-12

Laboratory:	Lubbock				
Analysis:	Volatiles	Analytical Method:	S 8260 C	Prep Method:	S 5030B
QC Batch:	109698	Date Analyzed:	2014-02-26	Analyzed By:	KB
Prep Batch:	92763	Sample Preparation:	2014-02-26	Prepared By:	KB

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Bromochloromethane	U	2	<1.00	µg/L	1	1.00
Dichlorodifluoromethane	Qc,U	2	<1.00	µg/L	1	1.00
Chloromethane (methyl chloride)	U	2	<1.00	µg/L	1	1.00
Vinyl Chloride	U	2	<1.00	µg/L	1	1.00
Bromomethane (methyl bromide)	U	2	<5.00	µg/L	1	5.00
Chloroethane	U	2	<1.00	µg/L	1	1.00
Trichlorofluoromethane	U	2	<1.00	µg/L	1	1.00
Acetone	Qc,U	2	<10.0	µg/L	1	10.0
Iodomethane (methyl iodide)	Qs,U	2	<5.00	µg/L	1	5.00
Carbon Disulfide	U	2	<1.00	µg/L	1	1.00
Acrylonitrile	U	2	<1.00	µg/L	1	1.00
2-Butanone (MEK)	Qc,U	2	<5.00	µg/L	1	5.00
4-Methyl-2-pentanone (MIBK)	U	2	<5.00	µg/L	1	5.00
2-Hexanone	Qc,U	2	<5.00	µg/L	1	5.00
trans 1,4-Dichloro-2-butene	Qc,U	2	<10.0	µg/L	1	10.0
1,1-Dichloroethene	U	2	<1.00	µg/L	1	1.00
Methylene chloride	U	2	<5.00	µg/L	1	5.00
MTBE	U	2	<1.00	µg/L	1	1.00
trans-1,2-Dichloroethene	U	2	<1.00	µg/L	1	1.00
1,1-Dichloroethane	U	2	<1.00	µg/L	1	1.00
cis-1,2-Dichloroethene	U	2	<1.00	µg/L	1	1.00
2,2-Dichloropropane	U	2	<1.00	µg/L	1	1.00
1,2-Dichloroethane (EDC)	Qc,U	2	<1.00	µg/L	1	1.00
Chloroform	U	2	<1.00	µg/L	1	1.00
1,1,1-Trichloroethane	U	2	<1.00	µg/L	1	1.00
1,1-Dichloropropene	U	2	<1.00	µg/L	1	1.00
Benzene	U	2	<1.00	µg/L	1	1.00
Carbon Tetrachloride	U	2	<1.00	µg/L	1	1.00
1,2-Dichloropropane	U	2	<1.00	µg/L	1	1.00
Trichloroethene (TCE)	U	2	<1.00	µg/L	1	1.00
Dibromomethane (methylene bromide)	U	2	<1.00	µg/L	1	1.00
Bromodichloromethane	U	2	<1.00	µg/L	1	1.00
2-Chloroethyl vinyl ether	Qc,U	2	<5.00	µg/L	1	5.00
cis-1,3-Dichloropropene	U	2	<1.00	µg/L	1	1.00
trans-1,3-Dichloropropene	U	2	<1.00	µg/L	1	1.00
Toluene	U	2	<1.00	µg/L	1	1.00
1,1,2-Trichloroethane	U	2	<1.00	µg/L	1	1.00
1,3-Dichloropropane	U	2	<1.00	µg/L	1	1.00
Dibromochloromethane	U	2	<1.00	µg/L	1	1.00

continued . . .

sample 355712 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
1,2-Dibromoethane (EDB)	U	2	<1.00	µg/L	1	1.00
Tetrachloroethene (PCE)	Qc,U	2	<1.00	µg/L	1	1.00
Chlorobenzene	U	2	<1.00	µg/L	1	1.00
1,1,1,2-Tetrachloroethane	U	2	<1.00	µg/L	1	1.00
Ethylbenzene	U	2	<1.00	µg/L	1	1.00
m,p-Xylene	Qs,U	2	<1.00	µg/L	1	1.00
Bromoform	U	2	<1.00	µg/L	1	1.00
Styrene	Qs,U	2	<1.00	µg/L	1	1.00
o-Xylene	U	2	<1.00	µg/L	1	1.00
1,1,2,2-Tetrachloroethane	U	2	<1.00	µg/L	1	1.00
2-Chlorotoluene	U	2	<1.00	µg/L	1	1.00
1,2,3-Trichloropropane	U	2	<1.00	µg/L	1	1.00
Isopropylbenzene	U	2	<1.00	µg/L	1	1.00
Bromobenzene	U	2	<1.00	µg/L	1	1.00
n-Propylbenzene	U	2	<1.00	µg/L	1	1.00
1,3,5-Trimethylbenzene	Qs,U	2	<1.00	µg/L	1	1.00
tert-Butylbenzene	U	2	<1.00	µg/L	1	1.00
1,2,4-Trimethylbenzene	Qr,Qs,U	2	<1.00	µg/L	1	1.00
1,4-Dichlorobenzene (para)	U	2	<1.00	µg/L	1	1.00
sec-Butylbenzene	U	2	<1.00	µg/L	1	1.00
1,3-Dichlorobenzene (meta)	U	2	<1.00	µg/L	1	1.00
p-Isopropyltoluene	U	2	<1.00	µg/L	1	1.00
4-Chlorotoluene	U	2	<1.00	µg/L	1	1.00
1,2-Dichlorobenzene (ortho)	U	2	<1.00	µg/L	1	1.00
n-Butylbenzene	U	2	<1.00	µg/L	1	1.00
1,2-Dibromo-3-chloropropane	Qc,U	2	<5.00	µg/L	1	5.00
1,2,3-Trichlorobenzene	U	2	<5.00	µg/L	1	5.00
1,2,4-Trichlorobenzene	U	2	<5.00	µg/L	1	5.00
Naphthalene	U	2	<5.00	µg/L	1	5.00
Hexachlorobutadiene	Jb	2	<5.00	µg/L	1	5.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane			49.4	µg/L	1	50.0	99	70 - 130
Toluene-d8			50.7	µg/L	1	50.0	101	70 - 130
4-Bromofluorobenzene (4-BFB)			47.1	µg/L	1	50.0	94	70 - 130

Sample: 355712 - MW-12

Laboratory:	Lubbock				
Analysis:	Zn, Total	Analytical Method:	S 6010C	Prep Method:	S 3010A
QC Batch:	109792	Date Analyzed:	2014-02-28	Analyzed By:	LM
Prep Batch:	92785	Sample Preparation:	2014-02-28	Prepared By:	PM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Zinc	U	2	<0.0100	mg/L	1	0.0100

Method Blanks

Method Blank (1) QC Batch: 109666

QC Batch:	109666	Date Analyzed:	2014-02-26	Analyzed By:	AR
Prep Batch:	92733	QC Preparation:	2014-02-26	Prepared By:	AR

Parameter	Flag	Cert	MDL Result	Units	RL
Specific Conductance		3	5.27	uMHOS/cm	0

Method Blank (1) QC Batch: 109671

QC Batch:	109671	Date Analyzed:	2014-02-26	Analyzed By:	AR
Prep Batch:	92737	QC Preparation:	2014-02-26	Prepared By:	AR

Parameter	Flag	Cert	MDL Result	Units	RL
Hydroxide Alkalinity		3	<20.0	mg/L as CaCo3	20
Carbonate Alkalinity		3	<20.0	mg/L as CaCo3	20
Bicarbonate Alkalinity		3	<20.0	mg/L as CaCo3	20
Total Alkalinity		3	<20.0	mg/L as CaCo3	20

Method Blank (1) QC Batch: 109698

QC Batch:	109698	Date Analyzed:	2014-02-26	Analyzed By:	KB
Prep Batch:	92763	QC Preparation:	2014-02-26	Prepared By:	KB

Parameter	Flag	Cert	MDL Result	Units	RL
Bromochloromethane		2	<0.310	µg/L	1
Dichlorodifluoromethane		2	<0.340	µg/L	1
Chloromethane (methyl chloride)		2	<0.490	µg/L	1
Vinyl Chloride		2	<0.460	µg/L	1
Bromomethane (methyl bromide)		2	<0.510	µg/L	5
Chloroethane		2	<0.440	µg/L	1

continued . . .

method blank continued ...

Parameter	Flag	Cert	MDL Result	Units	RL
Trichlorofluoromethane		2	<0.470	µg/L	1
Acetone		2	<2.99	µg/L	10
Iodomethane (methyl iodide)		2	<0.330	µg/L	5
Carbon Disulfide		2	<0.300	µg/L	1
Acrylonitrile		2	<0.410	µg/L	1
2-Butanone (MEK)		2	<0.660	µg/L	5
4-Methyl-2-pentanone (MIBK)		2	<0.340	µg/L	5
2-Hexanone		2	<0.550	µg/L	5
trans 1,4-Dichloro-2-butene		2	<0.260	µg/L	10
1,1-Dichloroethene		2	<0.350	µg/L	1
Methylene chloride		2	<1.15	µg/L	5
MTBE		2	<0.300	µg/L	1
trans-1,2-Dichloroethene		2	<0.330	µg/L	1
1,1-Dichloroethane		2	<0.350	µg/L	1
cis-1,2-Dichloroethene		2	<0.280	µg/L	1
2,2-Dichloropropane		2	<0.360	µg/L	1
1,2-Dichloroethane (EDC)		2	<0.350	µg/L	1
Chloroform		2	<0.280	µg/L	1
1,1,1-Trichloroethane		2	<0.320	µg/L	1
1,1-Dichloropropene		2	<0.280	µg/L	1
Benzene		2	<0.370	µg/L	1
Carbon Tetrachloride		2	<0.370	µg/L	1
1,2-Dichloropropane		2	<0.320	µg/L	1
Trichloroethene (TCE)		2	<0.360	µg/L	1
Dibromomethane (methylene bromide)		2	<0.280	µg/L	1
Bromodichloromethane		2	<0.260	µg/L	1
2-Chloroethyl vinyl ether		2	<0.370	µg/L	5
cis-1,3-Dichloropropene		2	<0.230	µg/L	1
trans-1,3-Dichloropropene		2	<0.200	µg/L	1
Toluene		2	<0.330	µg/L	1
1,1,2-Trichloroethane		2	<0.360	µg/L	1
1,3-Dichloropropane		2	<0.300	µg/L	1
Dibromochloromethane		2	<0.230	µg/L	1
1,2-Dibromoethane (EDB)		2	<0.260	µg/L	1
Tetrachloroethene (PCE)		2	<0.480	µg/L	1
Chlorobenzene		2	<0.290	µg/L	1
1,1,1,2-Tetrachloroethane		2	<0.330	µg/L	1
Ethylbenzene		2	<0.310	µg/L	1
m,p-Xylene		2	<0.570	µg/L	1
Bromoform		2	<0.210	µg/L	1
Styrene		2	<0.290	µg/L	1
o-Xylene		2	<0.300	µg/L	1
1,1,2,2-Tetrachloroethane		2	<0.180	µg/L	1
2-Chlorotoluene		2	<0.300	µg/L	1

continued ...

method blank continued ...

Parameter	Flag	Cert	MDL Result	Units	RL
1,2,3-Trichloropropane		2	<0.210	µg/L	1
Isopropylbenzene		2	<0.300	µg/L	1
Bromobenzene		2	<0.280	µg/L	1
n-Propylbenzene		2	<0.270	µg/L	1
1,3,5-Trimethylbenzene		2	<0.280	µg/L	1
tert-Butylbenzene		2	<0.220	µg/L	1
1,2,4-Trimethylbenzene		2	<0.310	µg/L	1
1,4-Dichlorobenzene (para)		2	<0.220	µg/L	1
sec-Butylbenzene		2	<0.280	µg/L	1
1,3-Dichlorobenzene (meta)		2	<0.260	µg/L	1
p-Isopropyltoluene		2	<0.260	µg/L	1
4-Chlorotoluene		2	<0.260	µg/L	1
1,2-Dichlorobenzene (ortho)		2	<0.250	µg/L	1
n-Butylbenzene		2	<0.240	µg/L	1
1,2-Dibromo-3-chloropropane		2	<0.290	µg/L	5
1,2,3-Trichlorobenzene		2	<0.180	µg/L	5
1,2,4-Trichlorobenzene		2	<0.230	µg/L	5
Naphthalene		2	<1.38	µg/L	5
Hexachlorobutadiene		2	1.35	µg/L	5

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane			46.5	µg/L	1	50.0	93	70 - 130
Toluene-d8			50.4	µg/L	1	50.0	101	70 - 130
4-Bromofluorobenzene (4-BFB)			45.5	µg/L	1	50.0	91	70 - 130

Method Blank (1) QC Batch: 109750

QC Batch: 109750 Date Analyzed: 2014-02-28 Analyzed By: TP
Prep Batch: 92796 QC Preparation: 2014-02-28 Prepared By: TP

Parameter	Flag	Cert	MDL Result	Units	RL
Total Mercury		2	<0.0000602	mg/L	0.0002

Method Blank (1) QC Batch: 109792

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM
Prep Batch: 92785 QC Preparation: 2014-02-27 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Aluminum		2	<0.0164	mg/L	0.05

Method Blank (1) QC Batch: 109792

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM
Prep Batch: 92785 QC Preparation: 2014-02-27 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Boron		2	<0.00348	mg/L	0.01

Method Blank (1) QC Batch: 109792

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM
Prep Batch: 92785 QC Preparation: 2014-02-27 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Cobalt			<0.00251	mg/L	0.01

Method Blank (1) QC Batch: 109792

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM
Prep Batch: 92785 QC Preparation: 2014-02-27 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Copper			<0.00101	mg/L	0.005

Method Blank (1) QC Batch: 109792

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM
Prep Batch: 92785 QC Preparation: 2014-02-27 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Iron			<0.00892	mg/L	0.01

Method Blank (1) QC Batch: 109792

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM
Prep Batch: 92785 QC Preparation: 2014-02-27 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Manganese		2	<0.00201	mg/L	0.005

Method Blank (1) QC Batch: 109792

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM
Prep Batch: 92785 QC Preparation: 2014-02-27 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Molybdenum		2	<0.000552	mg/L	0.05

Method Blank (1) QC Batch: 109792

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM
Prep Batch: 92785 QC Preparation: 2014-02-27 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Nickel		2	<0.00129	mg/L	0.01

Method Blank (1) QC Batch: 109792

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM
Prep Batch: 92785 QC Preparation: 2014-02-27 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Zinc		2	<0.00467	mg/L	0.01

Method Blank (1) QC Batch: 109792

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM
Prep Batch: 92785 QC Preparation: 2014-02-27 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Silver		2	<0.000352	mg/L	0.005
Total Arsenic		2	<0.00258	mg/L	0.01
Total Barium		2	<0.00310	mg/L	0.01
Total Cadmium		2	<0.000281	mg/L	0.01
Total Chromium		2	<0.00130	mg/L	0.01
Total Lead		2	<0.00246	mg/L	0.01
Total Selenium		2	<0.00420	mg/L	0.02

Method Blank (1) QC Batch: 109813

QC Batch: 109813 Date Analyzed: 2014-02-27 Analyzed By: JR
Prep Batch: 92858 QC Preparation: 2014-02-27 Prepared By: JR

Parameter	Flag	Cert	MDL Result	Units	RL
Fluoride		1	<0.0341	mg/L	0.5

Method Blank (1) QC Batch: 109816

QC Batch: 109816 Date Analyzed: 2014-03-03 Analyzed By: RR
Prep Batch: 92846 QC Preparation: 2014-03-03 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Dissolved Calcium		2	<0.0441	mg/L	1
Dissolved Potassium		2	<0.0443	mg/L	1
Dissolved Magnesium		2	<0.0296	mg/L	1

continued ...

method blank continued . . .

Parameter	Flag	Cert	MDL Result	Units	RL
Dissolved Sodium		2	<0.172	mg/L	1

Method Blank (1) QC Batch: 109844

QC Batch:	109844	Date Analyzed:	2014-03-03	Analyzed By:	JR
Prep Batch:	92882	QC Preparation:	2014-03-03	Prepared By:	JR

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		1	<0.678	mg/L	2.5
Sulfate		1	<0.0237	mg/L	2.5

Method Blank (1) QC Batch: 109997

QC Batch:	109997	Date Analyzed:	2014-02-26	Analyzed By:	JR
Prep Batch:	93014	QC Preparation:	2014-02-26	Prepared By:	JR

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		1	<0.678	mg/L	2.5
Nitrate-N		1	<0.0374	mg/L	0.5
PO4-P		1	<0.0423	mg/L	0.815
Sulfate		1	<0.0260	mg/L	2.5

Method Blank (1) QC Batch: 110046

QC Batch:	110046	Date Analyzed:	2014-03-11	Analyzed By:	MN
Prep Batch:	93051	QC Preparation:	2014-03-01	Prepared By:	MN

Parameter	Flag	Cert	MDL Result	Units	RL
Pyridine		2	<0.00133	mg/L	0.005
N-Nitrosodimethylamine		2	<0.000694	mg/L	0.005
2-Picoline		2	<0.00125	mg/L	0.005
Methyl methanesulfonate		2	<0.00120	mg/L	0.005

continued . . .

method blank continued . . .

Parameter	Flag	Cert	MDL Result	Units	RL
Ethyl methanesulfonate		2	<0.000568	mg/L	0.005
Phenol		2	<0.000555	mg/L	0.005
Aniline		2	<0.00134	mg/L	0.005
bis(2-chloroethyl)ether		2	<0.00108	mg/L	0.005
2-Chlorophenol		2	<0.00106	mg/L	0.005
1,3-Dichlorobenzene (meta)		2	<0.000782	mg/L	0.005
1,4-Dichlorobenzene (para)		2	<0.000686	mg/L	0.005
Benzyl alcohol		2	<0.00117	mg/L	0.005
1,2-Dichlorobenzene (ortho)		2	<0.000707	mg/L	0.005
2-Methylphenol		2	<0.000881	mg/L	0.005
bis(2-chloroisopropyl)ether		2	<0.000547	mg/L	0.005
4-Methylphenol / 3-Methylphenol		2	<0.00150	mg/L	0.005
N-Nitrosodi-n-propylamine		2	<0.000938	mg/L	0.005
Hexachloroethane		2	<0.000748	mg/L	0.005
Acetophenone		2	<0.000798	mg/L	0.005
Nitrobenzene		2	<0.000702	mg/L	0.005
N-Nitrosopiperidine		2	<0.000976	mg/L	0.005
Isophorone		2	<0.000976	mg/L	0.005
2-Nitrophenol		2	<0.000943	mg/L	0.005
2,4-Dimethylphenol		2	<0.00109	mg/L	0.005
bis(2-chloroethoxy)methane		2	<0.00102	mg/L	0.005
2,4-Dichlorophenol		2	<0.00116	mg/L	0.005
1,2,4-Trichlorobenzene		2	<0.000675	mg/L	0.005
Benzoic acid		2	<0.00120	mg/L	0.005
Naphthalene		2	<0.000832	mg/L	0.005
4-Chloroaniline		2	<0.00122	mg/L	0.005
2,6-Dichlorophenol		2	<0.00120	mg/L	0.01
Hexachlorobutadiene		2	<0.00249	mg/L	0.005
N-Nitroso-di-n-butylamine		2	<0.00115	mg/L	0.005
4-Chloro-3-methylphenol		2	<0.00128	mg/L	0.005
2-Methylnaphthalene		2	<0.000739	mg/L	0.005
1-Methylnaphthalene			<0.00104	mg/L	0.005
1,2,4,5-Tetrachlorobenzene		2	<0.000764	mg/L	0.005
Hexachlorocyclopentadiene		2	<0.000511	mg/L	0.005
2,4,6-Trichlorophenol		2	<0.000809	mg/L	0.01
2,4,5-Trichlorophenol		2	<0.00112	mg/L	0.005
2-Chloronaphthalene		2	<0.000878	mg/L	0.005
1-Chloronaphthalene		2	<0.000811	mg/L	0.005
2-Nitroaniline		2	<0.000832	mg/L	0.005
Dimethylphthalate		2	<0.000875	mg/L	0.005
Acenaphthylene		2	<0.000817	mg/L	0.005
2,6-Dinitrotoluene		2	<0.000863	mg/L	0.005
3-Nitroaniline		2	<0.00179	mg/L	0.005
Acenaphthene		2	<0.000731	mg/L	0.005

continued . . .

method blank continued ...

Parameter	Flag	Cert	MDL Result	Units	RL
2,4-Dinitrophenol		2	<0.00168	mg/L	0.005
Dibenzofuran		2	<0.000857	mg/L	0.005
Pentachlorobenzene		2	<0.000862	mg/L	0.005
4-Nitrophenol		2	<0.00123	mg/L	0.025
2,4-Dinitrotoluene		2	<0.00142	mg/L	0.005
1-Naphthylamine		2	<0.000803	mg/L	0.005
2,3,4,6-Tetrachlorophenol		2	<0.000858	mg/L	0.01
2-Naphthylamine		2	<0.000985	mg/L	0.005
Fluorene		2	<0.000699	mg/L	0.005
4-Chlorophenyl-phenylether		2	<0.000608	mg/L	0.005
Diethylphthalate		2	<0.000746	mg/L	0.005
4-Nitroaniline		2	<0.00105	mg/L	0.005
Diphenylhydrazine			<0.000571	mg/L	0.005
4,6-Dinitro-2-methylphenol		2	<0.00124	mg/L	0.005
Diphenylamine		2	<0.000798	mg/L	0.005
4-Bromophenyl-phenylether		2	<0.000799	mg/L	0.005
Phenacetin		2	<0.000695	mg/L	0.005
Hexachlorobenzene		2	<0.000668	mg/L	0.005
4-Aminobiphenyl		2	<0.00104	mg/L	0.005
Pentachlorophenol		2	<0.00120	mg/L	0.01
Anthracene		2	<0.000803	mg/L	0.005
Pentachloronitrobenzene		2	<0.000613	mg/L	0.005
Pronamide		2	<0.000611	mg/L	0.005
Phenanthrene		2	<0.000777	mg/L	0.005
Di-n-butylphthalate		2	<0.00296	mg/L	0.005
Fluoranthene		2	<0.000665	mg/L	0.005
Benzidine		2	<0.00124	mg/L	0.025
Pyrene		2	<0.000690	mg/L	0.005
p-Dimethylaminoazobenzene			<0.00106	mg/L	0.005
Butylbenzylphthalate		2	<0.000758	mg/L	0.005
Benzo(a)anthracene		2	<0.000768	mg/L	0.005
3,3-Dichlorobenzidine		2	<0.000620	mg/L	0.005
Chrysene		2	<0.000611	mg/L	0.005
bis(2-ethylhexyl)phthalate		2	<0.000997	mg/L	0.005
Di-n-octylphthalate		2	<0.000801	mg/L	0.005
Benzo(b)fluoranthene		2	<0.000626	mg/L	0.005
Benzo(k)fluoranthene		2	<0.000603	mg/L	0.005
7,12-Dimethylbenz(a)anthracene		2	<0.000685	mg/L	0.005
Benzo(a)pyrene		2	<0.000540	mg/L	0.005
3-Methylcholanthrene		2	<0.000738	mg/L	0.005
Dibenzo(a,j)acridine		2	<0.00162	mg/L	0.005
Indeno(1,2,3-cd)pyrene		2	<0.000515	mg/L	0.005
Dibenzo(a,h)anthracene		2	<0.000512	mg/L	0.005
Benzo(g,h,i)perylene		2	<0.000589	mg/L	0.005

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol			0.0486	mg/L	1	0.0800	61	19 - 119
Phenol-d5			0.0549	mg/L	1	0.0800	69	10 - 120
Nitrobenzene-d5			0.0492	mg/L	1	0.0800	62	44 - 120
2-Fluorobiphenyl			0.0630	mg/L	1	0.0800	79	44 - 119
2,4,6-Tribromophenol			0.0757	mg/L	1	0.0800	95	43 - 140
Terphenyl-d14			0.0538	mg/L	1	0.0800	67	50 - 134

Duplicates (1) Duplicated Sample: 355711

QC Batch: 109642 | Date Analyzed: 2014-02-25 | Analyzed By: AR
Prep Batch: 92717 | QC Preparation: 2014-02-25 | Prepared By: AR

Param		Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH	3	7.16	7.16	s.u.	1	0	10

Duplicates (1) Duplicated Sample: 355711

QC Batch: 109666 | Date Analyzed: 2014-02-26 | Analyzed By: AR
Prep Batch: 92733 | QC Preparation: 2014-02-26 | Prepared By: AR

Param		Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Specific Conductance	3	12800	12000	uMHOS/cm	1	6	20

Duplicates (1) Duplicated Sample: 355560

QC Batch: 109671 | Date Analyzed: 2014-02-26 | Analyzed By: AR
Prep Batch: 92737 | QC Preparation: 2014-02-26 | Prepared By: AR

Param		Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	3	<20.0	<20.0	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	3	<20.0	<20.0	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity	3	208	199	mg/L as CaCo3	1	4	20

continued ...

duplicate continued . . .

Param		Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Alkalinity	3	208	199	mg/L as CaCo3	1	4	20

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109698 | Date Analyzed: 2014-02-26 | Analyzed By: KB
Prep Batch: 92763 | QC Preparation: 2014-02-26 | Prepared By: KB

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane		2	50.0	µg/L	1	50.0	<0.310	100	77 - 128
Dichlorodifluoromethane		2	39.6	µg/L	1	50.0	<0.340	79	43.1 - 158
Chloromethane (methyl chloride)		2	43.8	µg/L	1	50.0	<0.490	88	64.5 - 143
Vinyl Chloride		2	44.5	µg/L	1	50.0	<0.460	89	62.9 - 149
Bromomethane (methyl bromide)		2	61.6	µg/L	1	50.0	<0.510	123	38.9 - 180
Chloroethane		2	60.7	µg/L	1	50.0	<0.440	121	64.6 - 150
Trichlorofluoromethane		2	44.3	µg/L	1	50.0	<0.470	89	52.6 - 157
Acetone		2	61.5	µg/L	1	50.0	<2.99	123	18.6 - 181
Iodomethane (methyl iodide)		2	49.8	µg/L	1	50.0	<0.330	100	75.6 - 136
Carbon Disulfide		2	50.4	µg/L	1	50.0	<0.300	101	78.1 - 132
Acrylonitrile		2	47.8	µg/L	1	50.0	<0.410	96	65.2 - 132
2-Butanone (MEK)		2	42.5	µg/L	1	50.0	<0.660	85	46.2 - 135
4-Methyl-2-pentanone (MIBK)		2	46.5	µg/L	1	50.0	<0.340	93	60.7 - 134
2-Hexanone		2	41.4	µg/L	1	50.0	<0.550	83	50.5 - 133
trans 1,4-Dichloro-2-butene		2	43.4	µg/L	1	50.0	<0.260	87	43.5 - 142
1,1-Dichloroethene		2	49.8	µg/L	1	50.0	<0.350	100	73.1 - 133
Methylene chloride		2	45.8	µg/L	1	50.0	<1.15	92	74.4 - 128
MTBE		2	44.3	µg/L	1	50.0	<0.300	89	72.9 - 133
trans-1,2-Dichloroethene		2	50.7	µg/L	1	50.0	<0.330	101	79.6 - 126
1,1-Dichloroethane		2	47.0	µg/L	1	50.0	<0.350	94	80 - 126
cis-1,2-Dichloroethene		2	51.1	µg/L	1	50.0	<0.280	102	80 - 126
2,2-Dichloropropane		2	48.9	µg/L	1	50.0	<0.360	98	51.5 - 152
1,2-Dichloroethane (EDC)		2	41.2	µg/L	1	50.0	<0.350	82	73.3 - 131
Chloroform		2	43.8	µg/L	1	50.0	<0.280	88	75.6 - 128
1,1,1-Trichloroethane		2	46.6	µg/L	1	50.0	<0.320	93	75.8 - 135
1,1-Dichloropropene		2	48.9	µg/L	1	50.0	<0.280	98	80 - 131
Benzene		2	51.4	µg/L	1	50.0	<0.370	103	80 - 124
Carbon Tetrachloride		2	45.1	µg/L	1	50.0	<0.370	90	76.7 - 136
1,2-Dichloropropane		2	48.2	µg/L	1	50.0	<0.320	96	76.7 - 129
Trichloroethene (TCE)		2	46.6	µg/L	1	50.0	<0.360	93	72.5 - 142
Dibromomethane (methylene bromide)		2	45.8	µg/L	1	50.0	<0.280	92	72.6 - 128
Bromodichloromethane		2	43.1	µg/L	1	50.0	<0.260	86	74.8 - 129
2-Chloroethyl vinyl ether		2	39.5	µg/L	1	50.0	<0.370	79	48.6 - 140
cis-1,3-Dichloropropene		2	47.9	µg/L	1	50.0	<0.230	96	75.6 - 131
trans-1,3-Dichloropropene		2	47.3	µg/L	1	50.0	<0.200	95	68.8 - 131

continued . . .

control spikes continued . . .

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Toluene		2	48.2	µg/L	1	50.0	<0.330	96	78.8 - 126
1,1,2-Trichloroethane		2	45.8	µg/L	1	50.0	<0.360	92	74 - 120
1,3-Dichloropropane		2	46.3	µg/L	1	50.0	<0.300	93	71.5 - 121
Dibromochloromethane		2	44.8	µg/L	1	50.0	<0.230	90	72.5 - 120
1,2-Dibromoethane (EDB)		2	46.9	µg/L	1	50.0	<0.260	94	75.2 - 120
Tetrachloroethene (PCE)		2	31.4	µg/L	1	50.0	<0.480	63	28.2 - 170
Chlorobenzene		2	46.8	µg/L	1	50.0	<0.290	94	80 - 120
1,1,1,2-Tetrachloroethane		2	44.8	µg/L	1	50.0	<0.330	90	74.8 - 123
Ethylbenzene		2	48.2	µg/L	1	50.0	<0.310	96	80 - 120
m,p-Xylene		2	95.6	µg/L	1	100	<0.570	96	80 - 120
Bromoform		2	46.6	µg/L	1	50.0	<0.210	93	67.2 - 123
Styrene		2	50.0	µg/L	1	50.0	<0.290	100	74.5 - 127
o-Xylene		2	47.5	µg/L	1	50.0	<0.300	95	77.6 - 124
1,1,2,2-Tetrachloroethane		2	45.9	µg/L	1	50.0	<0.180	92	60.3 - 123
2-Chlorotoluene		2	47.8	µg/L	1	50.0	<0.300	96	80 - 120
1,2,3-Trichloropropane		2	42.9	µg/L	1	50.0	<0.210	86	72.8 - 120
Isopropylbenzene		2	50.7	µg/L	1	50.0	<0.300	101	80 - 123
Bromobenzene		2	45.0	µg/L	1	50.0	<0.280	90	77.8 - 120
n-Propylbenzene		2	49.9	µg/L	1	50.0	<0.270	100	79.7 - 121
1,3,5-Trimethylbenzene		2	52.0	µg/L	1	50.0	<0.280	104	80 - 122
tert-Butylbenzene		2	53.0	µg/L	1	50.0	<0.220	106	80 - 122
1,2,4-Trimethylbenzene		2	51.6	µg/L	1	50.0	<0.310	103	80 - 123
1,4-Dichlorobenzene (para)		2	47.6	µg/L	1	50.0	<0.220	95	78.1 - 120
sec-Butylbenzene		2	53.1	µg/L	1	50.0	<0.280	106	80 - 122
1,3-Dichlorobenzene (meta)		2	49.0	µg/L	1	50.0	<0.260	98	80 - 120
p-Isopropyltoluene		2	52.6	µg/L	1	50.0	<0.260	105	80 - 124
4-Chlorotoluene		2	47.5	µg/L	1	50.0	<0.260	95	80 - 120
1,2-Dichlorobenzene (ortho)		2	48.9	µg/L	1	50.0	<0.250	98	78.3 - 120
n-Butylbenzene		2	52.4	µg/L	1	50.0	<0.240	105	80 - 122
1,2-Dibromo-3-chloropropane		2	43.3	µg/L	1	50.0	<0.290	87	59 - 122
1,2,3-Trichlorobenzene		2	55.2	µg/L	1	50.0	<0.180	110	51.4 - 144
1,2,4-Trichlorobenzene		2	55.9	µg/L	1	50.0	<0.230	112	69.6 - 129
Naphthalene		2	49.6	µg/L	1	50.0	<1.38	99	57.9 - 135
Hexachlorobutadiene		2	50.4	µg/L	1	50.0	1.35	101	75.8 - 133

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
Bromochloromethane		2	49.8	µg/L	1	50.0	<0.310	100	77 - 128	0	20
Dichlorodifluoromethane		2	37.7	µg/L	1	50.0	<0.340	75	43.1 - 158	5	20
Chloromethane (methyl chloride)		2	43.6	µg/L	1	50.0	<0.490	87	64.5 - 143	0	20
Vinyl Chloride		2	44.1	µg/L	1	50.0	<0.460	88	62.9 - 149	1	20
Bromomethane (methyl bromide)		2	64.1	µg/L	1	50.0	<0.510	128	38.9 - 180	4	20
Chloroethane		2	62.6	µg/L	1	50.0	<0.440	125	64.6 - 150	3	20

continued . . .

control spikes continued . . .

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Trichlorofluoromethane		2	42.9	µg/L	1	50.0	<0.470	86	52.6 - 157	3	20
Acetone		2	57.8	µg/L	1	50.0	<2.99	116	18.6 - 181	6	20
Iodomethane (methyl iodide)		2	50.6	µg/L	1	50.0	<0.330	101	75.6 - 136	2	20
Carbon Disulfide		2	51.0	µg/L	1	50.0	<0.300	102	78.1 - 132	1	20
Acrylonitrile		2	47.0	µg/L	1	50.0	<0.410	94	65.2 - 132	2	20
2-Butanone (MEK)		2	39.1	µg/L	1	50.0	<0.660	78	46.2 - 135	8	20
4-Methyl-2-pentanone (MIBK)		2	47.2	µg/L	1	50.0	<0.340	94	60.7 - 134	2	20
2-Hexanone		2	38.7	µg/L	1	50.0	<0.550	77	50.5 - 133	7	20
trans 1,4-Dichloro-2-butene		2	42.7	µg/L	1	50.0	<0.260	85	43.5 - 142	2	20
1,1-Dichloroethene		2	49.6	µg/L	1	50.0	<0.350	99	73.1 - 133	0	20
Methylene chloride		2	45.6	µg/L	1	50.0	<1.15	91	74.4 - 128	0	20
MTBE		2	45.9	µg/L	1	50.0	<0.300	92	72.9 - 133	4	20
trans-1,2-Dichloroethene		2	50.1	µg/L	1	50.0	<0.330	100	79.6 - 126	1	20
1,1-Dichloroethane		2	46.8	µg/L	1	50.0	<0.350	94	80 - 126	0	20
cis-1,2-Dichloroethene		2	50.4	µg/L	1	50.0	<0.280	101	80 - 126	1	20
2,2-Dichloropropane		2	49.3	µg/L	1	50.0	<0.360	99	51.5 - 152	1	20
1,2-Dichloroethane (EDC)		2	40.9	µg/L	1	50.0	<0.350	82	73.3 - 131	1	20
Chloroform		2	43.1	µg/L	1	50.0	<0.280	86	75.6 - 128	2	20
1,1,1-Trichloroethane		2	46.3	µg/L	1	50.0	<0.320	93	75.8 - 135	1	20
1,1-Dichloropropene		2	47.9	µg/L	1	50.0	<0.280	96	80 - 131	2	20
Benzene		2	50.9	µg/L	1	50.0	<0.370	102	80 - 124	1	20
Carbon Tetrachloride		2	44.6	µg/L	1	50.0	<0.370	89	76.7 - 136	1	20
1,2-Dichloropropane		2	47.9	µg/L	1	50.0	<0.320	96	76.7 - 129	1	20
Trichloroethene (TCE)		2	46.7	µg/L	1	50.0	<0.360	93	72.5 - 142	0	20
Dibromomethane (methylene bromide)		2	46.0	µg/L	1	50.0	<0.280	92	72.6 - 128	0	20
Bromodichloromethane		2	43.1	µg/L	1	50.0	<0.260	86	74.8 - 129	0	20
2-Chloroethyl vinyl ether		2	38.6	µg/L	1	50.0	<0.370	77	48.6 - 140	2	20
cis-1,3-Dichloropropene		2	47.2	µg/L	1	50.0	<0.230	94	75.6 - 131	2	20
trans-1,3-Dichloropropene		2	46.5	µg/L	1	50.0	<0.200	93	68.8 - 131	2	20
Toluene		2	47.9	µg/L	1	50.0	<0.330	96	78.8 - 126	1	20
1,1,2-Trichloroethane		2	45.9	µg/L	1	50.0	<0.360	92	74 - 120	0	20
1,3-Dichloropropane		2	46.5	µg/L	1	50.0	<0.300	93	71.5 - 121	0	20
Dibromochloromethane		2	44.9	µg/L	1	50.0	<0.230	90	72.5 - 120	0	20
1,2-Dibromoethane (EDB)		2	47.3	µg/L	1	50.0	<0.260	95	75.2 - 120	1	20
Tetrachloroethene (PCE)		2	31.4	µg/L	1	50.0	<0.480	63	28.2 - 170	0	20
Chlorobenzene		2	46.6	µg/L	1	50.0	<0.290	93	80 - 120	0	20
1,1,1,2-Tetrachloroethane		2	44.8	µg/L	1	50.0	<0.330	90	74.8 - 123	0	20
Ethylbenzene		2	48.2	µg/L	1	50.0	<0.310	96	80 - 120	0	20
m,p-Xylene		2	95.1	µg/L	1	100	<0.570	95	80 - 120	0	20
Bromoform		2	46.7	µg/L	1	50.0	<0.210	93	67.2 - 123	0	20
Styrene		2	50.2	µg/L	1	50.0	<0.290	100	74.5 - 127	0	20
o-Xylene		2	47.9	µg/L	1	50.0	<0.300	96	77.6 - 124	1	20
1,1,2,2-Tetrachloroethane		2	45.9	µg/L	1	50.0	<0.180	92	60.3 - 123	0	20
2-Chlorotoluene		2	46.6	µg/L	1	50.0	<0.300	93	80 - 120	2	20

continued . . .

control spikes continued ...

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,2,3-Trichloropropane		2	42.6	µg/L	1	50.0	<0.210	85	72.8 - 120	1	20
Isopropylbenzene		2	49.1	µg/L	1	50.0	<0.300	98	80 - 123	3	20
Bromobenzene		2	44.2	µg/L	1	50.0	<0.280	88	77.8 - 120	2	20
n-Propylbenzene		2	48.9	µg/L	1	50.0	<0.270	98	79.7 - 121	2	20
1,3,5-Trimethylbenzene		2	51.0	µg/L	1	50.0	<0.280	102	80 - 122	2	20
tert-Butylbenzene		2	51.6	µg/L	1	50.0	<0.220	103	80 - 122	3	20
1,2,4-Trimethylbenzene		2	50.4	µg/L	1	50.0	<0.310	101	80 - 123	2	20
1,4-Dichlorobenzene (para)		2	47.3	µg/L	1	50.0	<0.220	95	78.1 - 120	1	20
sec-Butylbenzene		2	51.9	µg/L	1	50.0	<0.280	104	80 - 122	2	20
1,3-Dichlorobenzene (meta)		2	48.7	µg/L	1	50.0	<0.260	97	80 - 120	1	20
p-Isopropyltoluene		2	51.2	µg/L	1	50.0	<0.260	102	80 - 124	3	20
4-Chlorotoluene		2	46.2	µg/L	1	50.0	<0.260	92	80 - 120	3	20
1,2-Dichlorobenzene (ortho)		2	48.6	µg/L	1	50.0	<0.250	97	78.3 - 120	1	20
n-Butylbenzene		2	51.2	µg/L	1	50.0	<0.240	102	80 - 122	2	20
1,2-Dibromo-3-chloropropane		2	42.8	µg/L	1	50.0	<0.290	86	59 - 122	1	20
1,2,3-Trichlorobenzene		2	54.4	µg/L	1	50.0	<0.180	109	51.4 - 144	1	20
1,2,4-Trichlorobenzene		2	54.4	µg/L	1	50.0	<0.230	109	69.6 - 129	3	20
Naphthalene		2	48.1	µg/L	1	50.0	<1.38	96	57.9 - 135	3	20
Hexachlorobutadiene		2	48.6	µg/L	1	50.0	1.35	97	75.8 - 133	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	47.0	46.6	µg/L	1	50.0	94	93	70 - 130
Toluene-d8	49.7	49.8	µg/L	1	50.0	99	100	70 - 130
4-Bromofluorobenzene (4-BFB)	47.7	48.2	µg/L	1	50.0	95	96	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 109750 | Date Analyzed: 2014-02-28 | Analyzed By: TP
Prep Batch: 92796 | QC Preparation: 2014-02-28 | Prepared By: TP

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury		2	0.00442	mg/L	1	0.00400	<0.0000602	110	85 - 115

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
Total Mercury		2	0.00447	mg/L	1	0.00400	<0.0000602	112	85 - 115	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Aluminum		2	1.07	mg/L	1	1.00	<0.0164	107	85 - 115

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
Total Aluminum		2	1.01	mg/L	1	1.00	<0.0164	101	85 - 115	6	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Boron		2	0.0440	mg/L	1	0.0500	<0.00348	88	85 - 115

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
Total Boron		2	0.0430	mg/L	1	0.0500	<0.00348	86	85 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Cobalt			0.272	mg/L	1	0.250	<0.00251	109	85 - 115

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
Total Cobalt			0.256	mg/L	1	0.250	<0.00251	102	85 - 115	6	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper			0.124	mg/L	1	0.125	<0.00101	99	85 - 115

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
Total Copper			0.118	mg/L	1	0.125	<0.00101	94	85 - 115	5	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron			0.526	mg/L	1	0.500	<0.00892	105	85 - 115

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
Total Iron			0.496	mg/L	1	0.500	<0.00892	99	85 - 115	6	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese		2	0.262	mg/L	1	0.250	<0.00201	105	85 - 115

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
Total Manganese		2	0.248	mg/L	1	0.250	<0.00201	99	85 - 115	6	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Molybdenum		2	0.537	mg/L	1	0.500	<0.000552	107	85 - 115

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
Total Molybdenum		2	0.507	mg/L	1	0.500	<0.000552	101	85 - 115	6	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Nickel		2	0.271	mg/L	1	0.250	<0.00129	108	85 - 115

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
Total Nickel		2	0.255	mg/L	1	0.250	<0.00129	102	85 - 115	6	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc		2	0.252	mg/L	1	0.250	<0.00467	101	85 - 115

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
Total Zinc		2	0.252	mg/L	1	0.250	<0.00467	101	85 - 115	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver		2	0.133	mg/L	1	0.125	<0.000352	106	85 - 115
Total Arsenic		2	0.501	mg/L	1	0.500	<0.00258	100	85 - 115
Total Barium		2	1.05	mg/L	1	1.00	<0.00310	105	85 - 115
Total Cadmium		2	0.260	mg/L	1	0.250	<0.000281	104	85 - 115
Total Chromium		2	0.0981	mg/L	1	0.100	<0.00130	98	85 - 115
Total Lead		2	0.505	mg/L	1	0.500	<0.00246	101	85 - 115
Total Selenium		2	0.468	mg/L	1	0.500	<0.00420	94	85 - 115

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
Total Silver		2	0.124	mg/L	1	0.125	<0.000352	99	85 - 115	7	20
Total Arsenic		2	0.471	mg/L	1	0.500	<0.00258	94	85 - 115	6	20
Total Barium		2	0.997	mg/L	1	1.00	<0.00310	100	85 - 115	5	20
Total Cadmium		2	0.246	mg/L	1	0.250	<0.000281	98	85 - 115	6	20
Total Chromium		2	0.0921	mg/L	1	0.100	<0.00130	92	85 - 115	6	20
Total Lead		2	0.476	mg/L	1	0.500	<0.00246	95	85 - 115	6	20
Total Selenium		2	0.460	mg/L	1	0.500	<0.00420	92	85 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109813 | Date Analyzed: 2014-02-27 | Analyzed By: JR
Prep Batch: 92858 | QC Preparation: 2014-02-27 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride		1	4.92	mg/L	1	5.00	<0.0341	98	90 - 110

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
Fluoride		1	4.91	mg/L	1	5.00	<0.0341	98	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109816 | Date Analyzed: 2014-03-03 | Analyzed By: RR
Prep Batch: 92846 | QC Preparation: 2014-03-03 | Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Calcium		2	52.8	mg/L	1	50.0	<0.0441	106	85 - 115
Dissolved Potassium		2	49.6	mg/L	1	50.0	<0.0443	99	85 - 115
Dissolved Magnesium		2	49.0	mg/L	1	50.0	<0.0296	98	85 - 115
Dissolved Sodium		2	49.1	mg/L	1	50.0	<0.172	98	85 - 115

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
Dissolved Calcium		2	52.7	mg/L	1	50.0	<0.0441	105	85 - 115	0	20
Dissolved Potassium		2	49.5	mg/L	1	50.0	<0.0443	99	85 - 115	0	20
Dissolved Magnesium		2	48.3	mg/L	1	50.0	<0.0296	97	85 - 115	1	20
Dissolved Sodium		2	49.2	mg/L	1	50.0	<0.172	98	85 - 115	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109844 | Date Analyzed: 2014-03-03 | Analyzed By: JR
Prep Batch: 92882 | QC Preparation: 2014-03-03 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.2	mg/L	1	25.0	<0.678	97	90 - 110
Sulfate		1	24.3	mg/L	1	25.0	<0.0237	97	90 - 110

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
Chloride		1	24.2	mg/L	1	25.0	<0.678	97	90 - 110	0	20
Sulfate		1	24.3	mg/L	1	25.0	<0.0237	97	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109997 | Date Analyzed: 2014-02-26 | Analyzed By: JR
Prep Batch: 93014 | QC Preparation: 2014-02-26 | Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.2	mg/L	1	25.0	<0.678	101	90 - 110
Nitrate-N		1	5.06	mg/L	1	5.00	<0.0374	101	90 - 110
PO4-P		1	26.6	mg/L	1	25.0	<0.0423	106	90 - 110
Sulfate		1	25.4	mg/L	1	25.0	<0.0260	102	90 - 110

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
Chloride		1	25.1	mg/L	1	25.0	<0.678	100	90 - 110	0	20
Nitrate-N		1	5.04	mg/L	1	5.00	<0.0374	101	90 - 110	0	20
PO4-P		1	26.6	mg/L	1	25.0	<0.0423	106	90 - 110	0	20
Sulfate		1	25.3	mg/L	1	25.0	<0.0260	101	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 110046 | Date Analyzed: 2014-03-11 | Analyzed By: MN
Prep Batch: 93051 | QC Preparation: 2014-03-01 | Prepared By: MN

continued ...

control spikes continued . . .

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Phenol		2	0.0552	mg/L	1	0.0800	<0.000555	69	10 - 120
2-Chlorophenol		2	0.0553	mg/L	1	0.0800	<0.00106	69	38 - 117
1,4-Dichlorobenzene (para)		2	0.0590	mg/L	1	0.0800	<0.000686	74	29 - 112
N-Nitrosodi-n-propylamine		2	0.0685	mg/L	1	0.0800	<0.000938	86	49 - 119
1,2,4-Trichlorobenzene		2	0.0616	mg/L	1	0.0800	<0.000675	77	29 - 116
Naphthalene		2	0.0523	mg/L	1	0.0800	<0.000832	65	40 - 121
4-Chloro-3-methylphenol		2	0.0573	mg/L	1	0.0800	<0.00128	72	52 - 119
Acenaphthylene		2	0.0563	mg/L	1	0.0800	<0.000817	70	41 - 130
Acenaphthene		2	0.0523	mg/L	1	0.0800	<0.000731	65	47 - 122
4-Nitrophenol		2	0.0407	mg/L	1	0.0800	<0.00123	51	10 - 140
2,4-Dinitrotoluene		2	0.0508	mg/L	1	0.0800	<0.00142	64	57 - 128
Fluorene		2	0.0523	mg/L	1	0.0800	<0.000699	65	52 - 124
Pentachlorophenol		2	0.0570	mg/L	1	0.0800	<0.00120	71	35 - 138
Anthracene		2	0.0542	mg/L	1	0.0800	<0.000803	68	57 - 123
Phenanthrene		2	0.0535	mg/L	1	0.0800	<0.000777	67	59 - 120
Fluoranthene		2	0.0477	mg/L	1	0.0800	<0.000665	60	57 - 128
Pyrene		2	0.0499	mg/L	1	0.0800	<0.000690	62	57 - 126
Benzo(a)anthracene		2	0.0508	mg/L	1	0.0800	<0.000768	64	58 - 125
Chrysene		2	0.0514	mg/L	1	0.0800	<0.000611	64	59 - 123
Benzo(b)fluoranthene		2	0.0491	mg/L	1	0.0800	<0.000626	61	53 - 131
Benzo(k)fluoranthene		2	0.0565	mg/L	1	0.0800	<0.000603	71	57 - 129
Benzo(a)pyrene		2	0.0549	mg/L	1	0.0800	<0.000540	69	54 - 128
Indeno(1,2,3-cd)pyrene		2	0.0528	mg/L	1	0.0800	<0.000515	66	52 - 134
Dibenzo(a,h)anthracene		2	0.0493	mg/L	1	0.0800	<0.000512	62	51 - 134
Benzo(g,h,i)perylene		2	0.0528	mg/L	1	0.0800	<0.000589	66	50 - 134

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
Phenol		2	0.0530	mg/L	1	0.0800	<0.000555	66	10 - 120	4	20
2-Chlorophenol		2	0.0547	mg/L	1	0.0800	<0.00106	68	38 - 117	1	20
1,4-Dichlorobenzene (para)		2	0.0601	mg/L	1	0.0800	<0.000686	75	29 - 112	2	20
N-Nitrosodi-n-propylamine		2	0.0578	mg/L	1	0.0800	<0.000938	72	49 - 119	17	20
1,2,4-Trichlorobenzene		2	0.0633	mg/L	1	0.0800	<0.000675	79	29 - 116	3	20
Naphthalene		2	0.0541	mg/L	1	0.0800	<0.000832	68	40 - 121	3	20
4-Chloro-3-methylphenol		2	0.0629	mg/L	1	0.0800	<0.00128	79	52 - 119	9	20
Acenaphthylene		2	0.0598	mg/L	1	0.0800	<0.000817	75	41 - 130	6	20
Acenaphthene		2	0.0540	mg/L	1	0.0800	<0.000731	68	47 - 122	3	20
4-Nitrophenol		2	0.0405	mg/L	1	0.0800	<0.00123	51	10 - 140	0	20
2,4-Dinitrotoluene		2	0.0523	mg/L	1	0.0800	<0.00142	65	57 - 128	3	20
Fluorene		2	0.0554	mg/L	1	0.0800	<0.000699	69	52 - 124	6	20

continued . . .

control spikes continued ...

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Pentachlorophenol		2	0.0560	mg/L	1	0.0800	<0.00120	70	35 - 138	2	20
Anthracene		2	0.0552	mg/L	1	0.0800	<0.000803	69	57 - 123	2	20
Phenanthrene		2	0.0552	mg/L	1	0.0800	<0.000777	69	59 - 120	3	20
Fluoranthene		2	0.0533	mg/L	1	0.0800	<0.000665	67	57 - 128	11	20
Pyrene		2	0.0570	mg/L	1	0.0800	<0.000690	71	57 - 126	13	20
Benzo(a)anthracene		2	0.0531	mg/L	1	0.0800	<0.000768	66	58 - 125	4	20
Chrysene		2	0.0535	mg/L	1	0.0800	<0.000611	67	59 - 123	4	20
Benzo(b)fluoranthene		2	0.0517	mg/L	1	0.0800	<0.000626	65	53 - 131	5	20
Benzo(k)fluoranthene		2	0.0544	mg/L	1	0.0800	<0.000603	68	57 - 129	4	20
Benzo(a)pyrene		2	0.0547	mg/L	1	0.0800	<0.000540	68	54 - 128	0	20
Indeno(1,2,3-cd)pyrene		2	0.0557	mg/L	1	0.0800	<0.000515	70	52 - 134	5	20
Dibenzo(a,h)anthracene		2	0.0522	mg/L	1	0.0800	<0.000512	65	51 - 134	6	20
Benzo(g,h,i)perylene		2	0.0487	mg/L	1	0.0800	<0.000589	61	50 - 134	8	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
2-Fluorophenol	0.0544	0.0544	mg/L	1	0.0800	68	68	19 - 119
Phenol-d5	0.0560	0.0546	mg/L	1	0.0800	70	68	10 - 120
Nitrobenzene-d5	0.0531	0.0455	mg/L	1	0.0800	66	57	44 - 120
2-Fluorobiphenyl	0.0569	0.0553	mg/L	1	0.0800	71	69	44 - 119
2,4,6-Tribromophenol	0.0740	0.0788	mg/L	1	0.0800	92	98	43 - 140
Terphenyl-d14	0.0513	0.0619	mg/L	1	0.0800	64	77	50 - 134

Matrix Spike (MS-1) Spiked Sample: 355688

QC Batch: 109698 | Date Analyzed: 2014-02-26 | Analyzed By: KB
Prep Batch: 92763 | QC Preparation: 2014-02-26 | Prepared By: KB

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane		2	52.5	µg/L	1	50.0	<0.310	105	73.4 - 137
Dichlorodifluoromethane		2	33.5	µg/L	1	50.0	<0.340	67	28.8 - 163
Chloromethane (methyl chloride)		2	56.2	µg/L	1	50.0	<0.490	112	52.5 - 157
Vinyl Chloride		2	45.1	µg/L	1	50.0	<0.460	90	55.3 - 157
Bromomethane (methyl bromide)		2	67.3	µg/L	1	50.0	<0.510	135	10 - 228
Chloroethane		2	63.2	µg/L	1	50.0	<0.440	126	47.8 - 180
Trichlorofluoromethane		2	41.2	µg/L	1	50.0	<0.470	82	47.5 - 169
Acetone		2	25.8	µg/L	1	50.0	<2.99	52	10 - 147
Iodomethane (methyl iodide)	Qs	Qs 2	<0.330	µg/L	1	50.0	<0.330	0	68.6 - 146
Carbon Disulfide		2	48.4	µg/L	1	50.0	<0.300	97	72.8 - 147

continued ...

matrix spikes continued . . .

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Acrylonitrile		2	47.9	µg/L	1	50.0	<0.410	96	54 - 145
2-Butanone (MEK)		2	34.2	µg/L	1	50.0	<0.660	68	29.1 - 130
4-Methyl-2-pentanone (MIBK)		2	46.3	µg/L	1	50.0	<0.340	93	31.7 - 165
2-Hexanone		2	38.2	µg/L	1	50.0	<0.550	76	21.3 - 144
trans 1,4-Dichloro-2-butene		2	21.2	µg/L	1	50.0	<0.260	42	10 - 151
1,1-Dichloroethene		2	46.5	µg/L	1	50.0	<0.350	93	73.6 - 139
Methylene chloride		2	47.0	µg/L	1	50.0	<1.15	94	78.6 - 130
MTBE		2	49.4	µg/L	1	50.0	<0.300	99	63.4 - 148
trans-1,2-Dichloroethene		2	50.2	µg/L	1	50.0	<0.330	100	79.1 - 132
1,1-Dichloroethane		2	50.1	µg/L	1	50.0	<0.350	100	80 - 135
cis-1,2-Dichloroethene		2	51.6	µg/L	1	50.0	<0.280	103	80 - 133
2,2-Dichloropropane		2	45.3	µg/L	1	50.0	<0.360	91	10 - 160
1,2-Dichloroethane (EDC)		2	49.2	µg/L	1	50.0	<0.350	98	69.4 - 147
Chloroform		2	51.6	µg/L	1	50.0	2.66	98	76.9 - 138
1,1,1-Trichloroethane		2	49.9	µg/L	1	50.0	<0.320	100	75 - 149
1,1-Dichloropropene		2	46.4	µg/L	1	50.0	<0.280	93	80 - 137
Benzene		2	52.2	µg/L	1	50.0	<0.370	104	79.2 - 134
Carbon Tetrachloride		2	46.3	µg/L	1	50.0	<0.370	93	66.6 - 153
1,2-Dichloropropane		2	50.8	µg/L	1	50.0	<0.320	102	80 - 136
Trichloroethene (TCE)		2	45.5	µg/L	1	50.0	<0.360	91	69.2 - 141
Dibromomethane (methylene bromide)		2	50.6	µg/L	1	50.0	<0.280	101	71.2 - 137
Bromodichloromethane		2	59.9	µg/L	1	50.0	9.76	100	73.6 - 142
2-Chloroethyl vinyl ether		2	<0.370	µg/L	1	50.0	<0.370	0	0 - 120
cis-1,3-Dichloropropene		2	48.0	µg/L	1	50.0	<0.230	96	68.6 - 135
trans-1,3-Dichloropropene		2	48.9	µg/L	1	50.0	<0.200	98	64.5 - 134
Toluene		2	47.4	µg/L	1	50.0	<0.330	95	80 - 134
1,1,2-Trichloroethane		2	47.5	µg/L	1	50.0	<0.360	95	75.6 - 122
1,3-Dichloropropane		2	48.2	µg/L	1	50.0	<0.300	96	67.6 - 142
Dibromochloromethane		2	70.0	µg/L	1	50.0	21	98	66.6 - 131
1,2-Dibromoethane (EDB)		2	47.8	µg/L	1	50.0	<0.260	96	72.1 - 123
Tetrachloroethene (PCE)		2	27.6	µg/L	1	50.0	<0.480	55	42.5 - 120
Chlorobenzene		2	45.1	µg/L	1	50.0	<0.290	90	80 - 120
1,1,1,2-Tetrachloroethane		2	47.2	µg/L	1	50.0	<0.330	94	76.2 - 127
Ethylbenzene		2	45.1	µg/L	1	50.0	<0.310	90	80 - 122
m,p-Xylene	Qs	Qs 2	59.5	µg/L	1	100	<0.570	60	80 - 122
Bromoform		2	60.9	µg/L	1	50.0	12.3	97	54.3 - 137
Styrene	Qs	Qs 2	1.36	µg/L	1	50.0	<0.290	3	10 - 186
o-Xylene		2	44.8	µg/L	1	50.0	<0.300	90	78 - 128
1,1,2,2-Tetrachloroethane		2	45.8	µg/L	1	50.0	<0.180	92	62.1 - 138
2-Chlorotoluene		2	39.9	µg/L	1	50.0	<0.300	80	77 - 126
1,2,3-Trichloropropane		2	44.2	µg/L	1	50.0	<0.210	88	63.4 - 134
Isopropylbenzene		2	43.9	µg/L	1	50.0	<0.300	88	80 - 124
Bromobenzene		2	43.4	µg/L	1	50.0	<0.280	87	78 - 123
n-Propylbenzene		2	42.8	µg/L	1	50.0	<0.270	86	74 - 127

continued . . .

matrix spikes continued . . .

Param		F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,3,5-Trimethylbenzene	Qs	Qs	2	<0.280	µg/L	1	50.0	<0.280	0	70 - 128
tert-Butylbenzene			2	45.0	µg/L	1	50.0	<0.220	90	78.8 - 123
1,2,4-Trimethylbenzene	Qs	Qs	2	3.96	µg/L	1	50.0	<0.310	8	76 - 125
1,4-Dichlorobenzene (para)			2	44.2	µg/L	1	50.0	<0.220	88	76.4 - 120
sec-Butylbenzene			2	44.3	µg/L	1	50.0	<0.280	89	75.9 - 124
1,3-Dichlorobenzene (meta)			2	45.2	µg/L	1	50.0	<0.260	90	76.4 - 120
p-Isopropyltoluene			2	43.4	µg/L	1	50.0	<0.260	87	76 - 124
4-Chlorotoluene			2	43.9	µg/L	1	50.0	<0.260	88	76.8 - 126
1,2-Dichlorobenzene (ortho)			2	46.4	µg/L	1	50.0	<0.250	93	77.5 - 120
n-Butylbenzene			2	43.4	µg/L	1	50.0	<0.240	87	71.5 - 128
1,2-Dibromo-3-chloropropane			2	42.5	µg/L	1	50.0	<0.290	85	39.2 - 146
1,2,3-Trichlorobenzene			2	49.3	µg/L	1	50.0	<0.180	99	47.1 - 139
1,2,4-Trichlorobenzene			2	49.1	µg/L	1	50.0	<0.230	98	62.1 - 127
Naphthalene			2	35.3	µg/L	1	50.0	<1.38	71	47 - 142
Hexachlorobutadiene			2	42.1	µg/L	1	50.0	<0.310	84	58.9 - 133

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
Bromochloromethane			2	52.1	µg/L	1	50.0	<0.310	104	73.4 - 137	1	20
Dichlorodifluoromethane			2	34.9	µg/L	1	50.0	<0.340	70	28.8 - 163	4	20
Chloromethane (methyl chloride)			2	59.0	µg/L	1	50.0	<0.490	118	52.5 - 157	5	20
Vinyl Chloride			2	45.2	µg/L	1	50.0	<0.460	90	55.3 - 157	0	20
Bromomethane (methyl bromide)			2	70.2	µg/L	1	50.0	<0.510	140	10 - 228	4	20
Chloroethane			2	64.1	µg/L	1	50.0	<0.440	128	47.8 - 180	1	20
Trichlorofluoromethane			2	42.4	µg/L	1	50.0	<0.470	85	47.5 - 169	3	20
Acetone			2	26.2	µg/L	1	50.0	<2.99	52	10 - 147	2	20
Iodomethane (methyl iodide)	Qs	Qs	2	<0.330	µg/L	1	50.0	<0.330	0	68.6 - 146	0	20
Carbon Disulfide			2	48.6	µg/L	1	50.0	<0.300	97	72.8 - 147	0	20
Acrylonitrile			2	47.6	µg/L	1	50.0	<0.410	95	54 - 145	1	20
2-Butanone (MEK)			2	33.8	µg/L	1	50.0	<0.660	68	29.1 - 130	1	20
4-Methyl-2-pentanone (MIBK)			2	45.6	µg/L	1	50.0	<0.340	91	31.7 - 165	2	20
2-Hexanone			2	37.2	µg/L	1	50.0	<0.550	74	21.3 - 144	3	20
trans 1,4-Dichloro-2-butene			2	19.2	µg/L	1	50.0	<0.260	38	10 - 151	10	20
1,1-Dichloroethene			2	45.7	µg/L	1	50.0	<0.350	91	73.6 - 139	2	20
Methylene chloride			2	45.1	µg/L	1	50.0	<1.15	90	78.6 - 130	4	20
MTBE			2	48.2	µg/L	1	50.0	<0.300	96	63.4 - 148	2	20
trans-1,2-Dichloroethene			2	49.8	µg/L	1	50.0	<0.330	100	79.1 - 132	1	20
1,1-Dichloroethane			2	49.0	µg/L	1	50.0	<0.350	98	80 - 135	2	20
cis-1,2-Dichloroethene			2	51.2	µg/L	1	50.0	<0.280	102	80 - 133	1	20
2,2-Dichloropropane			2	42.9	µg/L	1	50.0	<0.360	86	10 - 160	5	20
1,2-Dichloroethane (EDC)			2	47.6	µg/L	1	50.0	<0.350	95	69.4 - 147	3	20
Chloroform			2	50.2	µg/L	1	50.0	2.66	95	76.9 - 138	3	20
1,1,1-Trichloroethane			2	48.8	µg/L	1	50.0	<0.320	98	75 - 149	2	20

continued . . .

matrix spikes continued . . .

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,1-Dichloropropene		2	45.6	µg/L	1	50.0	<0.280	91	80 - 137	2	20
Benzene		2	51.2	µg/L	1	50.0	<0.370	102	79.2 - 134	2	20
Carbon Tetrachloride		2	45.4	µg/L	1	50.0	<0.370	91	66.6 - 153	2	20
1,2-Dichloropropane		2	49.8	µg/L	1	50.0	<0.320	100	80 - 136	2	20
Trichloroethene (TCE)		2	44.4	µg/L	1	50.0	<0.360	89	69.2 - 141	2	20
Dibromomethane (methylene bromide)		2	49.2	µg/L	1	50.0	<0.280	98	71.2 - 137	3	20
Bromodichloromethane		2	57.8	µg/L	1	50.0	9.76	96	73.6 - 142	4	20
2-Chloroethyl vinyl ether		2	<0.370	µg/L	1	50.0	<0.370	0	0 - 120	0	20
cis-1,3-Dichloropropene		2	46.3	µg/L	1	50.0	<0.230	93	68.6 - 135	4	20
trans-1,3-Dichloropropene		2	46.9	µg/L	1	50.0	<0.200	94	64.5 - 134	4	20
Toluene		2	46.0	µg/L	1	50.0	<0.330	92	80 - 134	3	20
1,1,2-Trichloroethane		2	46.2	µg/L	1	50.0	<0.360	92	75.6 - 122	3	20
1,3-Dichloropropane		2	46.8	µg/L	1	50.0	<0.300	94	67.6 - 142	3	20
Dibromochloromethane		2	68.1	µg/L	1	50.0	21	94	66.6 - 131	3	20
1,2-Dibromoethane (EDB)		2	47.4	µg/L	1	50.0	<0.260	95	72.1 - 123	1	20
Tetrachloroethene (PCE)		2	27.0	µg/L	1	50.0	<0.480	54	42.5 - 120	2	20
Chlorobenzene		2	44.2	µg/L	1	50.0	<0.290	88	80 - 120	2	20
1,1,1,2-Tetrachloroethane		2	46.1	µg/L	1	50.0	<0.330	92	76.2 - 127	2	20
Ethylbenzene		2	44.0	µg/L	1	50.0	<0.310	88	80 - 122	2	20
m,p-Xylene	Qs	Qs	2	54.8	µg/L	1	100	<0.570	55	80 - 122	8	20
Bromoform			2	59.9	µg/L	1	50.0	12.3	95	54.3 - 137	2	20
Styrene	Qs	Qs	2	1.31	µg/L	1	50.0	<0.290	3	10 - 186	4	20
o-Xylene			2	44.0	µg/L	1	50.0	<0.300	88	78 - 128	2	20
1,1,2,2-Tetrachloroethane			2	45.0	µg/L	1	50.0	<0.180	90	62.1 - 138	2	20
2-Chlorotoluene			2	39.0	µg/L	1	50.0	<0.300	78	77 - 126	2	20
1,2,3-Trichloropropane			2	43.4	µg/L	1	50.0	<0.210	87	63.4 - 134	2	20
Isopropylbenzene			2	43.4	µg/L	1	50.0	<0.300	87	80 - 124	1	20
Bromobenzene			2	42.4	µg/L	1	50.0	<0.280	85	78 - 123	2	20
n-Propylbenzene			2	42.8	µg/L	1	50.0	<0.270	86	74 - 127	0	20
1,3,5-Trimethylbenzene	Qs	Qs	2	<0.280	µg/L	1	50.0	<0.280	0	70 - 128	0	20
tert-Butylbenzene			2	44.9	µg/L	1	50.0	<0.220	90	78.8 - 123	0	20
1,2,4-Trimethylbenzene	Qr,Qs	Qr,Qs	2	2.41	µg/L	1	50.0	<0.310	5	76 - 125	49	20
1,4-Dichlorobenzene (para)			2	43.2	µg/L	1	50.0	<0.220	86	76.4 - 120	2	20
sec-Butylbenzene			2	43.9	µg/L	1	50.0	<0.280	88	75.9 - 124	1	20
1,3-Dichlorobenzene (meta)			2	44.6	µg/L	1	50.0	<0.260	89	76.4 - 120	1	20
p-Isopropyltoluene			2	43.1	µg/L	1	50.0	<0.260	86	76 - 124	1	20
4-Chlorotoluene			2	43.4	µg/L	1	50.0	<0.260	87	76.8 - 126	1	20
1,2-Dichlorobenzene (ortho)			2	45.4	µg/L	1	50.0	<0.250	91	77.5 - 120	2	20
n-Butylbenzene			2	43.7	µg/L	1	50.0	<0.240	87	71.5 - 128	1	20
1,2-Dibromo-3-chloropropane			2	43.1	µg/L	1	50.0	<0.290	86	39.2 - 146	1	20
1,2,3-Trichlorobenzene			2	49.7	µg/L	1	50.0	<0.180	99	47.1 - 139	1	20
1,2,4-Trichlorobenzene			2	50.3	µg/L	1	50.0	<0.230	101	62.1 - 127	2	20
Naphthalene			2	34.6	µg/L	1	50.0	<1.38	69	47 - 142	2	20
Hexachlorobutadiene			2	43.4	µg/L	1	50.0	<0.310	87	58.9 - 133	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Dibromofluoromethane	50.0	49.6	µg/L	1	50	100	99	70 - 130
Toluene-d8	49.6	49.6	µg/L	1	50	99	99	70 - 130
4-Bromofluorobenzene (4-BFB)	49.6	49.6	µg/L	1	50	99	99	70 - 130

Matrix Spike (MS-1) Spiked Sample: 355690

QC Batch: 109750 | Date Analyzed: 2014-02-28 | Analyzed By: TP
Prep Batch: 92796 | QC Preparation: 2014-02-28 | Prepared By: TP

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury		2	0.00435	mg/L	1	0.00400	<0.0000602	109	75 - 125

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
Total Mercury		2	0.00433	mg/L	1	0.00400	<0.0000602	108	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 355690

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Aluminum		2	1.17	mg/L	1	1.00	0.161	101	75 - 125

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
Total Aluminum		2	1.17	mg/L	1	1.00	0.161	101	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 355690

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Boron		[2]	0.0547	mg/L	1	0.0500	<0.00348	109	75 - 125

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
Total Boron		[2]	0.0521	mg/L	1	0.0500	<0.00348	104	75 - 125	5	20

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

Matrix Spike (MS-1) Spiked Sample: 355690

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Cobalt			0.259	mg/L	1	0.250	<0.00251	104	75 - 125

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
Total Cobalt			0.236	mg/L	1	0.250	<0.00251	94	75 - 125	9	20

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

Matrix Spike (MS-1) Spiked Sample: 355690

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper			0.150	mg/L	1	0.125	0.0272	98	75 - 125

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
Total Copper			0.149	mg/L	1	0.125	0.0272	97	75 - 125	1	20

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

Matrix Spike (MS-1) Spiked Sample: 355690

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM
Prep Batch: 92785 QC Preparation: 2014-02-27 Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron			0.544	mg/L	1	0.500	0.0441	100	75 - 125

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
Total Iron			0.546	mg/L	1	0.500	0.0441	100	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 355690

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM
Prep Batch: 92785 QC Preparation: 2014-02-27 Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese		2	0.257	mg/L	1	0.250	<0.00201	103	75 - 125

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
Total Manganese		2	0.257	mg/L	1	0.250	<0.00201	103	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 355690

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM
Prep Batch: 92785 QC Preparation: 2014-02-27 Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Molybdenum		2	0.515	mg/L	1	0.500	<0.000552	103	75 - 125

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
Total Molybdenum		2	0.517	mg/L	1	0.500	<0.000552	103	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 355690

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Nickel		2	0.256	mg/L	1	0.250	<0.00129	102	75 - 125

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
Total Nickel		2	0.253	mg/L	1	0.250	<0.00129	101	75 - 125	1	20

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

Matrix Spike (MS-1) Spiked Sample: 355690

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc		2	0.287	mg/L	1	0.250	0.0292	103	75 - 125

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
Total Zinc		2	0.287	mg/L	1	0.250	0.0292	103	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 355690

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM
Prep Batch: 92785 | QC Preparation: 2014-02-27 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver		2	0.129	mg/L	1	0.125	<0.000352	103	75 - 125
Total Arsenic		2	0.516	mg/L	1	0.500	<0.00258	103	75 - 125
Total Barium		2	1.06	mg/L	1	1.00	0.0393	102	75 - 125
Total Cadmium		2	0.254	mg/L	1	0.250	<0.000281	102	75 - 125
Total Chromium		2	0.0930	mg/L	1	0.100	<0.00130	93	75 - 125
Total Lead		2	0.474	mg/L	1	0.500	<0.00246	95	75 - 125
Total Selenium		2	0.453	mg/L	1	0.500	<0.00420	91	75 - 125

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
Total Silver		2	0.129	mg/L	1	0.125	<0.000352	103	75 - 125	0	20
Total Arsenic		2	0.520	mg/L	1	0.500	<0.00258	104	75 - 125	1	20
Total Barium		2	1.06	mg/L	1	1.00	0.0393	102	75 - 125	0	20
Total Cadmium		2	0.254	mg/L	1	0.250	<0.000281	102	75 - 125	0	20
Total Chromium		2	0.0929	mg/L	1	0.100	<0.00130	93	75 - 125	0	20
Total Lead		2	0.479	mg/L	1	0.500	<0.00246	96	75 - 125	1	20
Total Selenium		2	0.451	mg/L	1	0.500	<0.00420	90	75 - 125	0	20

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

Matrix Spike (MS-1) Spiked Sample: 356045

QC Batch: 109813 | Date Analyzed: 2014-02-27 | Analyzed By: JR
Prep Batch: 92858 | QC Preparation: 2014-02-27 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride		1	282	mg/L	55.6	278	<1.90	101	80 - 120

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
Fluoride		1	281	mg/L	55.6	278	<1.90	101	80 - 120	0	20

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

Matrix Spike (MS-1) Spiked Sample: 355790

QC Batch: 109816 | Date Analyzed: 2014-03-03 | Analyzed By: RR
Prep Batch: 92846 | QC Preparation: 2014-03-03 | Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Calcium		2	549	mg/L	1	500	32.7	103	75 - 125
Dissolved Potassium		2	522	mg/L	1	500	12	102	75 - 125
Dissolved Magnesium		2	557	mg/L	1	500	49.3	102	75 - 125
Dissolved Sodium		2	585	mg/L	1	500	88.1	99	75 - 125

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
Dissolved Calcium		2	543	mg/L	1	500	32.7	102	75 - 125	1	20
Dissolved Potassium		2	516	mg/L	1	500	12	101	75 - 125	1	20
Dissolved Magnesium		2	559	mg/L	1	500	49.3	102	75 - 125	0	20
Dissolved Sodium		2	578	mg/L	1	500	88.1	98	75 - 125	1	20

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

Matrix Spike (MS-1) Spiked Sample: 356448

QC Batch: 109844 | Date Analyzed: 2014-03-03 | Analyzed By: JR
Prep Batch: 92882 | QC Preparation: 2014-03-03 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2030	mg/L	55.6	1390	588	104	80 - 120
Sulfate		1	1750	mg/L	55.6	1390	371	99	80 - 120

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
Chloride		1	2050	mg/L	55.6	1390	588	105	80 - 120	1	20
Sulfate		1	1770	mg/L	55.6	1390	371	101	80 - 120	1	20

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

Matrix Spike (MS-1) Spiked Sample: 355814

QC Batch: 109997 | Date Analyzed: 2014-02-26 | Analyzed By: JR
Prep Batch: 93014 | QC Preparation: 2014-02-26 | Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1990	mg/L	55.6	1390	506	107	80 - 120
Nitrate-N		1	302	mg/L	55.6	278	25.2	100	80 - 120
PO4-P		1	1480	mg/L	55.6	1390	<2.35	106	80 - 120
Sulfate		1	1750	mg/L	55.6	1390	316	103	80 - 120

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
Chloride		1	1980	mg/L	55.6	1390	506	106	80 - 120	0	20
Nitrate-N		1	300	mg/L	55.6	278	25.2	99	80 - 120	1	20
PO4-P		1	1470	mg/L	55.6	1390	<2.35	106	80 - 120	1	20
Sulfate		1	1750	mg/L	55.6	1390	316	103	80 - 120	0	20

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

Calibration Standards

Standard (ICV-1)

QC Batch: 109642 | Date Analyzed: 2014-02-25 | Analyzed By: AR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		3	s.u.	7.00	7.07	101	98 - 102	2014-02-25

Standard (CCV-1)

QC Batch: 109642 | Date Analyzed: 2014-02-25 | Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		3	s.u.	7.00	7.10	101	98 - 102	2014-02-25

Standard (ICV-1)

QC Batch: 109666 | Date Analyzed: 2014-02-26 | Analyzed By: AR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		3	uMHOS/cm	1410	1500	106	90 - 110	2014-02-26

Standard (CCV-1)

QC Batch: 109666 | Date Analyzed: 2014-02-26 | Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		3	uMHOS/cm	1410	1530	108	90 - 110	2014-02-26

Standard (ICV-1)

QC Batch: 109671 Date Analyzed: 2014-02-26 Analyzed By: AR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		3	mg/L as CaCo3	0.00	<20.0		-	2014-02-26
Carbonate Alkalinity		3	mg/L as CaCo3	0.00	252		-	2014-02-26
Bicarbonate Alkalinity		3	mg/L as CaCo3	0.00	<20.0		-	2014-02-26
Total Alkalinity		3	mg/L as CaCo3	250	260	104	90 - 110	2014-02-26

Standard (CCV-1)

QC Batch: 109671 Date Analyzed: 2014-02-26 Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		3	mg/L as CaCo3	0.00	<20.0		-	2014-02-26
Carbonate Alkalinity		3	mg/L as CaCo3	0.00	236		-	2014-02-26
Bicarbonate Alkalinity		3	mg/L as CaCo3	0.00	<20.0		-	2014-02-26
Total Alkalinity		3	mg/L as CaCo3	250	253	101	90 - 110	2014-02-26

Standard (CCV-1)

QC Batch: 109698 Date Analyzed: 2014-02-26 Analyzed By: KB

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromochloromethane		2	µg/L	50.0	47.8	96	80 - 120	2014-02-26
Dichlorodifluoromethane	Qc	Qc 2	µg/L	50.0	36.3	73	80 - 120	2014-02-26
Chloromethane (methyl chloride)		2	µg/L	50.0	41.9	84	80 - 120	2014-02-26
Vinyl Chloride		2	µg/L	50.0	40.8	82	80 - 120	2014-02-26
Bromomethane (methyl bromide)		2	µg/L	50.0	56.8	114	80 - 120	2014-02-26
Chloroethane		2	µg/L	50.0	56.2	112	80 - 120	2014-02-26
Trichlorofluoromethane		2	µg/L	50.0	40.2	80	80 - 120	2014-02-26
Acetone	Qc	Qc 2	µg/L	50.0	61.9	124	80 - 120	2014-02-26
Iodomethane (methyl iodide)		2	µg/L	50.0	48.3	97	80 - 120	2014-02-26
Carbon Disulfide		2	µg/L	50.0	48.6	97	80 - 120	2014-02-26
Acrylonitrile		2	µg/L	50.0	46.4	93	80 - 120	2014-02-26
2-Butanone (MEK)		2	µg/L	50.0	47.1	94	80 - 120	2014-02-26

continued . . .

standard continued ...

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
4-Methyl-2-pentanone (MIBK)		2	µg/L	50.0	45.4	91	80 - 120	2014-02-26
2-Hexanone		2	µg/L	50.0	46.8	94	80 - 120	2014-02-26
trans 1,4-Dichloro-2-butene		2	µg/L	50.0	41.5	83	80 - 120	2014-02-26
1,1-Dichloroethene		2	µg/L	50.0	48.3	97	80 - 120	2014-02-26
Methylene chloride		2	µg/L	50.0	43.8	88	80 - 120	2014-02-26
MTBE		2	µg/L	50.0	43.9	88	80 - 120	2014-02-26
trans-1,2-Dichloroethene		2	µg/L	50.0	48.1	96	80 - 120	2014-02-26
1,1-Dichloroethane		2	µg/L	50.0	46.0	92	80 - 120	2014-02-26
cis-1,2-Dichloroethene		2	µg/L	50.0	49.2	98	80 - 120	2014-02-26
2,2-Dichloropropane		2	µg/L	50.0	48.7	97	80 - 120	2014-02-26
1,2-Dichloroethane (EDC)	Qc	Qc	2	µg/L	50.0	39.6	79	80 - 120	2014-02-26
Chloroform		2	µg/L	50.0	42.5	85	80 - 120	2014-02-26
1,1,1-Trichloroethane		2	µg/L	50.0	44.2	88	80 - 120	2014-02-26
1,1-Dichloropropene		2	µg/L	50.0	46.4	93	80 - 120	2014-02-26
Benzene		2	µg/L	50.0	49.5	99	80 - 120	2014-02-26
Carbon Tetrachloride		2	µg/L	50.0	42.8	86	80 - 120	2014-02-26
1,2-Dichloropropane		2	µg/L	50.0	46.7	93	80 - 120	2014-02-26
Trichloroethene (TCE)		2	µg/L	50.0	45.2	90	80 - 120	2014-02-26
Dibromomethane (methylene bromide)		2	µg/L	50.0	44.5	89	80 - 120	2014-02-26
Bromodichloromethane		2	µg/L	50.0	41.9	84	80 - 120	2014-02-26
2-Chloroethyl vinyl ether	Qc	Qc	2	µg/L	50.0	36.9	74	80 - 120	2014-02-26
cis-1,3-Dichloropropene		2	µg/L	50.0	46.2	92	80 - 120	2014-02-26
trans-1,3-Dichloropropene		2	µg/L	50.0	45.6	91	80 - 120	2014-02-26
Toluene		2	µg/L	50.0	46.6	93	80 - 120	2014-02-26
1,1,2-Trichloroethane		2	µg/L	50.0	45.0	90	80 - 120	2014-02-26
1,3-Dichloropropane		2	µg/L	50.0	44.7	89	80 - 120	2014-02-26
Dibromochloromethane		2	µg/L	50.0	43.5	87	80 - 120	2014-02-26
1,2-Dibromoethane (EDB)		2	µg/L	50.0	45.6	91	80 - 120	2014-02-26
Tetrachloroethene (PCE)	Qc	Qc	2	µg/L	50.0	37.7	75	80 - 120	2014-02-26
Chlorobenzene		2	µg/L	50.0	45.4	91	80 - 120	2014-02-26
1,1,1,2-Tetrachloroethane		2	µg/L	50.0	43.2	86	80 - 120	2014-02-26
Ethylbenzene		2	µg/L	50.0	47.0	94	80 - 120	2014-02-26
m,p-Xylene		2	µg/L	100	92.3	92	80 - 120	2014-02-26
Bromoform		2	µg/L	50.0	45.0	90	80 - 120	2014-02-26
Styrene		2	µg/L	50.0	48.5	97	80 - 120	2014-02-26
o-Xylene		2	µg/L	50.0	46.2	92	80 - 120	2014-02-26
1,1,2,2-Tetrachloroethane		2	µg/L	50.0	44.0	88	80 - 120	2014-02-26
2-Chlorotoluene		2	µg/L	50.0	46.5	93	80 - 120	2014-02-26
1,2,3-Trichloropropane		2	µg/L	50.0	43.3	87	80 - 120	2014-02-26
Isopropylbenzene		2	µg/L	50.0	48.8	98	80 - 120	2014-02-26
Bromobenzene		2	µg/L	50.0	43.5	87	80 - 120	2014-02-26
n-Propylbenzene		2	µg/L	50.0	48.0	96	80 - 120	2014-02-26
1,3,5-Trimethylbenzene		2	µg/L	50.0	50.1	100	80 - 120	2014-02-26

continued ...

standard continued ...

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
tert-Butylbenzene		2	µg/L	50.0	50.6	101	80 - 120	2014-02-26
1,2,4-Trimethylbenzene		2	µg/L	50.0	49.7	99	80 - 120	2014-02-26
1,4-Dichlorobenzene (para)		2	µg/L	50.0	46.3	93	80 - 120	2014-02-26
sec-Butylbenzene		2	µg/L	50.0	51.2	102	80 - 120	2014-02-26
1,3-Dichlorobenzene (meta)		2	µg/L	50.0	47.2	94	80 - 120	2014-02-26
p-Isopropyltoluene		2	µg/L	50.0	50.6	101	80 - 120	2014-02-26
4-Chlorotoluene		2	µg/L	50.0	45.7	91	80 - 120	2014-02-26
1,2-Dichlorobenzene (ortho)		2	µg/L	50.0	47.5	95	80 - 120	2014-02-26
n-Butylbenzene		2	µg/L	50.0	49.7	99	80 - 120	2014-02-26
1,2-Dibromo-3-chloropropane		2	µg/L	50.0	41.3	83	80 - 120	2014-02-26
1,2,3-Trichlorobenzene		2	µg/L	50.0	51.8	104	80 - 120	2014-02-26
1,2,4-Trichlorobenzene		2	µg/L	50.0	52.6	105	80 - 120	2014-02-26
Naphthalene		2	µg/L	50.0	46.6	93	80 - 120	2014-02-26
Hexachlorobutadiene		2	µg/L	50.0	46.1	92	80 - 120	2014-02-26

Standard (CCV-2)

QC Batch: 109698 Date Analyzed: 2014-02-26 Analyzed By: KB

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromochloromethane		2	µg/L	50.0	49.0	98	80 - 120	2014-02-26
Dichlorodifluoromethane		2	µg/L	50.0	44.2	88	80 - 120	2014-02-26
Chloromethane (methyl chloride)		2	µg/L	50.0	46.1	92	80 - 120	2014-02-26
Vinyl Chloride		2	µg/L	50.0	47.3	95	80 - 120	2014-02-26
Bromomethane (methyl bromide)		2	µg/L	50.0	59.4	119	80 - 120	2014-02-26
Chloroethane		2	µg/L	50.0	58.6	117	80 - 120	2014-02-26
Trichlorofluoromethane		2	µg/L	50.0	46.5	93	80 - 120	2014-02-26
Acetone		2	µg/L	50.0	48.7	97	80 - 120	2014-02-26
Iodomethane (methyl iodide)		2	µg/L	50.0	49.6	99	80 - 120	2014-02-26
Carbon Disulfide		2	µg/L	50.0	49.0	98	80 - 120	2014-02-26
Acrylonitrile		2	µg/L	50.0	45.2	90	80 - 120	2014-02-26
2-Butanone (MEK)	Qc	Qc	2	µg/L	50.0	31.9	64	80 - 120	2014-02-26
4-Methyl-2-pentanone (MIBK)			2	µg/L	50.0	43.2	86	80 - 120	2014-02-26
2-Hexanone	Qc	Qc	2	µg/L	50.0	35.0	70	80 - 120	2014-02-26
trans 1,4-Dichloro-2-butene	Qc	Qc	2	µg/L	50.0	29.4	59	80 - 120	2014-02-26
1,1-Dichloroethene			2	µg/L	50.0	49.3	99	80 - 120	2014-02-26
Methylene chloride			2	µg/L	50.0	45.4	91	80 - 120	2014-02-26
MTBE			2	µg/L	50.0	44.8	90	80 - 120	2014-02-26
trans-1,2-Dichloroethene			2	µg/L	50.0	50.0	100	80 - 120	2014-02-26

continued ...

standard continued ...

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
1,1-Dichloroethane		2	µg/L	50.0	48.0	96	80 - 120	2014-02-26
cis-1,2-Dichloroethene		2	µg/L	50.0	49.8	100	80 - 120	2014-02-26
2,2-Dichloropropane		2	µg/L	50.0	40.4	81	80 - 120	2014-02-26
1,2-Dichloroethane (EDC)		2	µg/L	50.0	45.3	91	80 - 120	2014-02-26
Chloroform		2	µg/L	50.0	46.8	94	80 - 120	2014-02-26
1,1,1-Trichloroethane		2	µg/L	50.0	49.8	100	80 - 120	2014-02-26
1,1-Dichloropropene		2	µg/L	50.0	50.2	100	80 - 120	2014-02-26
Benzene		2	µg/L	50.0	51.0	102	80 - 120	2014-02-26
Carbon Tetrachloride		2	µg/L	50.0	49.3	99	80 - 120	2014-02-26
1,2-Dichloropropane		2	µg/L	50.0	48.3	97	80 - 120	2014-02-26
Trichloroethene (TCE)		2	µg/L	50.0	46.7	93	80 - 120	2014-02-26
Dibromomethane (methylene bromide)		2	µg/L	50.0	46.8	94	80 - 120	2014-02-26
Bromodichloromethane		2	µg/L	50.0	45.5	91	80 - 120	2014-02-26
2-Chloroethyl vinyl ether	Qc	Qc	2	µg/L	50.0	36.8	74	80 - 120	2014-02-26
cis-1,3-Dichloropropene		2	µg/L	50.0	45.3	91	80 - 120	2014-02-26
trans-1,3-Dichloropropene		2	µg/L	50.0	45.8	92	80 - 120	2014-02-26
Toluene		2	µg/L	50.0	48.9	98	80 - 120	2014-02-26
1,1,2-Trichloroethane		2	µg/L	50.0	45.0	90	80 - 120	2014-02-26
1,3-Dichloropropane		2	µg/L	50.0	46.1	92	80 - 120	2014-02-26
Dibromochloromethane		2	µg/L	50.0	43.5	87	80 - 120	2014-02-26
1,2-Dibromoethane (EDB)		2	µg/L	50.0	45.9	92	80 - 120	2014-02-26
Tetrachloroethene (PCE)	Qc	Qc	2	µg/L	50.0	36.0	72	80 - 120	2014-02-26
Chlorobenzene		2	µg/L	50.0	46.5	93	80 - 120	2014-02-26
1,1,1,2-Tetrachloroethane		2	µg/L	50.0	45.8	92	80 - 120	2014-02-26
Ethylbenzene		2	µg/L	50.0	48.8	98	80 - 120	2014-02-26
m,p-Xylene		2	µg/L	100	97.2	97	80 - 120	2014-02-26
Bromoform		2	µg/L	50.0	41.6	83	80 - 120	2014-02-26
Styrene		2	µg/L	50.0	49.9	100	80 - 120	2014-02-26
o-Xylene		2	µg/L	50.0	48.6	97	80 - 120	2014-02-26
1,1,2,2-Tetrachloroethane		2	µg/L	50.0	43.3	87	80 - 120	2014-02-26
2-Chlorotoluene		2	µg/L	50.0	47.6	95	80 - 120	2014-02-26
1,2,3-Trichloropropane		2	µg/L	50.0	42.3	85	80 - 120	2014-02-26
Isopropylbenzene		2	µg/L	50.0	49.5	99	80 - 120	2014-02-26
Bromobenzene		2	µg/L	50.0	43.9	88	80 - 120	2014-02-26
n-Propylbenzene		2	µg/L	50.0	49.1	98	80 - 120	2014-02-26
1,3,5-Trimethylbenzene		2	µg/L	50.0	51.7	103	80 - 120	2014-02-26
tert-Butylbenzene		2	µg/L	50.0	51.6	103	80 - 120	2014-02-26
1,2,4-Trimethylbenzene		2	µg/L	50.0	51.3	103	80 - 120	2014-02-26
1,4-Dichlorobenzene (para)		2	µg/L	50.0	46.0	92	80 - 120	2014-02-26
sec-Butylbenzene		2	µg/L	50.0	51.9	104	80 - 120	2014-02-26
1,3-Dichlorobenzene (meta)		2	µg/L	50.0	47.8	96	80 - 120	2014-02-26
p-Isopropyltoluene		2	µg/L	50.0	51.2	102	80 - 120	2014-02-26
4-Chlorotoluene		2	µg/L	50.0	47.1	94	80 - 120	2014-02-26

continued ...

standard continued ...

Param		Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
1,2-Dichlorobenzene (ortho)			2	µg/L	50.0	47.8	96	80 - 120	2014-02-26
n-Butylbenzene			2	µg/L	50.0	50.1	100	80 - 120	2014-02-26
1,2-Dibromo-3-chloropropane	Qc	Qc	2	µg/L	50.0	39.2	78	80 - 120	2014-02-26
1,2,3-Trichlorobenzene			2	µg/L	50.0	49.0	98	80 - 120	2014-02-26
1,2,4-Trichlorobenzene			2	µg/L	50.0	50.3	101	80 - 120	2014-02-26
Naphthalene			2	µg/L	50.0	42.1	84	80 - 120	2014-02-26
Hexachlorobutadiene			2	µg/L	50.0	47.5	95	80 - 120	2014-02-26

Standard (CCV-1)

QC Batch: 109750 Date Analyzed: 2014-02-28 Analyzed By: TP

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		2	mg/L	0.00500	0.00515	103	90 - 110	2014-02-28

Standard (CCV-2)

QC Batch: 109750 Date Analyzed: 2014-02-28 Analyzed By: TP

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		2	mg/L	0.00500	0.00520	104	90 - 110	2014-02-28

Standard (ICV-1)

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		2	mg/L	1.00	1.04	104	90 - 110	2014-02-28

Standard (ICV-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Boron		2	mg/L	1.00	1.07	107	90 - 110	2014-02-28

Standard (ICV-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cobalt			mg/L	1.00	1.05	105	90 - 110	2014-02-28

Standard (ICV-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper			mg/L	1.00	1.01	101	90 - 110	2014-02-28

Standard (ICV-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron			mg/L	1.00	1.04	104	90 - 110	2014-02-28

Standard (ICV-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		2	mg/L	1.00	1.05	105	90 - 110	2014-02-28

Standard (ICV-1)

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Molybdenum		2	mg/L	1.00	1.10	110	90 - 110	2014-02-28

Standard (ICV-1)

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Nickel		2	mg/L	1.00	1.05	105	90 - 110	2014-02-28

Standard (ICV-1)

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		2	mg/L	1.00	1.03	103	90 - 110	2014-02-28

Standard (ICV-1)

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		2	mg/L	0.125	0.128	102	90 - 110	2014-02-28
Total Arsenic		2	mg/L	1.00	1.05	105	90 - 110	2014-02-28
Total Barium		2	mg/L	1.00	1.04	104	90 - 110	2014-02-28
Total Cadmium		2	mg/L	1.00	1.03	103	90 - 110	2014-02-28
Total Chromium		2	mg/L	1.00	1.03	103	90 - 110	2014-02-28
Total Lead		2	mg/L	1.00	1.05	105	90 - 110	2014-02-28
Total Selenium		2	mg/L	1.00	1.04	104	90 - 110	2014-02-28

Standard (CCV-1)

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		2	mg/L	1.00	1.04	104	90 - 110	2014-02-28

Standard (CCV-1)

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Boron		2	mg/L	1.00	1.05	105	90 - 110	2014-02-28

Standard (CCV-1)

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cobalt			mg/L	1.00	1.06	106	90 - 110	2014-02-28

Standard (CCV-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper			mg/L	1.00	1.02	102	90 - 110	2014-02-28

Standard (CCV-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron			mg/L	1.00	1.05	105	90 - 110	2014-02-28

Standard (CCV-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		2	mg/L	1.00	1.07	107	90 - 110	2014-02-28

Standard (CCV-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Molybdenum		2	mg/L	1.00	1.03	103	90 - 110	2014-02-28

Standard (CCV-1)

QC Batch: 109792 | Date Analyzed: 2014-02-28 | Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Nickel		2	mg/L	1.00	1.06	106	90 - 110	2014-02-28

Standard (CCV-1)

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		2	mg/L	1.00	1.05	105	90 - 110	2014-02-28

Standard (CCV-1)

QC Batch: 109792 Date Analyzed: 2014-02-28 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		2	mg/L	0.125	0.129	103	90 - 110	2014-02-28
Total Arsenic		2	mg/L	1.00	1.07	107	90 - 110	2014-02-28
Total Barium		2	mg/L	1.00	1.06	106	90 - 110	2014-02-28
Total Cadmium		2	mg/L	1.00	1.04	104	90 - 110	2014-02-28
Total Chromium		2	mg/L	1.00	1.05	105	90 - 110	2014-02-28
Total Lead		2	mg/L	1.00	1.06	106	90 - 110	2014-02-28
Total Selenium		2	mg/L	1.00	1.07	107	90 - 110	2014-02-28

Standard (CCV-1)

QC Batch: 109813 Date Analyzed: 2014-02-27 Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		1	mg/L	5.00	4.92	98	90 - 110	2014-02-27

Standard (CCV-2)

QC Batch: 109813 | Date Analyzed: 2014-02-27 | Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		1	mg/L	5.00	4.93	99	90 - 110	2014-02-27

Standard (CCV-3)

QC Batch: 109813 | Date Analyzed: 2014-02-27 | Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		1	mg/L	5.00	4.95	99	90 - 110	2014-02-27

Standard (ICV-1)

QC Batch: 109816 | Date Analyzed: 2014-03-03 | Analyzed By: RR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		2	mg/L	51.0	52.5	103	90 - 110	2014-03-03
Dissolved Potassium		2	mg/L	55.0	56.1	102	90 - 110	2014-03-03
Dissolved Magnesium		2	mg/L	51.0	52.5	103	90 - 110	2014-03-03
Dissolved Sodium		2	mg/L	51.0	51.5	101	90 - 110	2014-03-03

Standard (CCV-1)

QC Batch: 109816 | Date Analyzed: 2014-03-03 | Analyzed By: RR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		2	mg/L	51.0	51.1	100	90 - 110	2014-03-03
Dissolved Potassium		2	mg/L	55.0	55.2	100	90 - 110	2014-03-03
Dissolved Magnesium		2	mg/L	51.0	50.3	99	90 - 110	2014-03-03
Dissolved Sodium		2	mg/L	51.0	50.8	100	90 - 110	2014-03-03

Standard (CCV-1)

QC Batch: 109844 | Date Analyzed: 2014-03-03 | Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-03-03
Sulfate		1	mg/L	25.0	24.6	98	90 - 110	2014-03-03

Standard (CCV-2)

QC Batch: 109844 | Date Analyzed: 2014-03-03 | Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-03-03
Sulfate		1	mg/L	25.0	24.7	99	90 - 110	2014-03-03

Standard (CCV-3)

QC Batch: 109844 | Date Analyzed: 2014-03-03 | Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-03
Sulfate		1	mg/L	25.0	24.7	99	90 - 110	2014-03-03

Standard (CCV-1)

QC Batch: 109997 | Date Analyzed: 2014-02-26 | Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.3	97	90 - 110	2014-02-26
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2014-02-26
PO4-P		1	mg/L	25.0	25.8	103	90 - 110	2014-02-26
Sulfate		1	mg/L	25.0	24.6	98	90 - 110	2014-02-26

Standard (CCV-2)

QC Batch: 109997 | Date Analyzed: 2014-02-26 | Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.4	98	90 - 110	2014-02-26
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2014-02-26
PO4-P		1	mg/L	25.0	25.7	103	90 - 110	2014-02-26
Sulfate		1	mg/L	25.0	24.5	98	90 - 110	2014-02-26

Standard (CCV-3)

QC Batch: 109997 | Date Analyzed: 2014-02-26 | Analyzed By: JR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-02-26
Nitrate-N		1	mg/L	5.00	4.92	98	90 - 110	2014-02-26
PO4-P		1	mg/L	25.0	26.0	104	90 - 110	2014-02-26
Sulfate		1	mg/L	25.0	25.0	100	90 - 110	2014-02-26

Standard (CCV-1)

QC Batch: 110046 | Date Analyzed: 2014-03-11 | Analyzed By: MN

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Phenol		2	mg/L	60.0	68.6	114	80 - 120	2014-03-11
1,4-Dichlorobenzene (para)		2	mg/L	60.0	60.0	100	80 - 120	2014-03-11
2-Nitrophenol		2	mg/L	60.0	67.3	112	80 - 120	2014-03-11
2,4-Dichlorophenol		2	mg/L	60.0	65.0	108	80 - 120	2014-03-11
Hexachlorobutadiene		2	mg/L	60.0	60.7	101	80 - 120	2014-03-11
4-Chloro-3-methylphenol		2	mg/L	60.0	57.6	96	80 - 120	2014-03-11
2,4,6-Trichlorophenol		2	mg/L	60.0	62.8	105	80 - 120	2014-03-11
Acenaphthene		2	mg/L	60.0	60.5	101	80 - 120	2014-03-11
Diphenylamine		2	mg/L	60.0	58.0	97	80 - 120	2014-03-11
Pentachlorophenol		2	mg/L	60.0	60.0	100	80 - 120	2014-03-11
Fluoranthene		2	mg/L	60.0	61.8	103	80 - 120	2014-03-11
Di-n-octylphthalate		2	mg/L	60.0	60.3	100	80 - 120	2014-03-11

continued . . .

standard continued . . .

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzo(a)pyrene		2	mg/L	60.0	60.9	102	80 - 120	2014-03-11

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol			71.3	mg/L	1	60.0	119	80 - 120
Phenol-d5			68.7	mg/L	1	60.0	114	80 - 120
Nitrobenzene-d5			53.9	mg/L	1	60.0	90	80 - 120
2-Fluorobiphenyl			59.3	mg/L	1	60.0	99	80 - 120
2,4,6-Tribromophenol	Qc,Qsr	Qc,Qsr	79.2	mg/L	1	60.0	132	80 - 120
Terphenyl-d14			60.8	mg/L	1	60.0	101	80 - 120

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-13-9	Lubbock
3	NELAP	T104704392-13-7	Midland

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 then 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.
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 # 140225O4

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

5002 Basin Street, Suite A1
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Tel (432) 689-6301
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200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

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

Brandon & Clark
3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

Company Name: Nova
Phone #: 432 5207720
Address: (Street, City, Zip) 2057 commerce dr
Fax #:
Contact Person: Curt Stanley
E-mail:
Invoice to: (If different from above)
Project #: 7002-10286
Project Name: 34 J Lea
Project Location (including state): NM
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
355711	mw-11A	8	VOA	X				X	X			X		2/24/14	1435
712	mw-12	8	↓	↓				↓	↓			↓		↓	1512

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	
BTEX 8021 / 602 / 8260 / 624	
TPH 418.1 / TX1005 / TX1005 Ext(C35)	
TPH 8015 GRO / DRO / TVHC	
PAH 8270 / 625	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
TCLP Pesticides	
RCI	
GC/MS Vol. 8260 / 624	
GC/MS Semi. Vol. 8270 / 625	
PCB's 8082 / 608	
Pesticides 8081 / 608	
BOD, TSS, pH	
Moisture Content	
Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	
Na, Ca, Mg, K, TDS, EC	
X X See Attached sheet	
Turn Around Time if different from standard	
Hold	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
John Flores	Nova	2/25/14			TA	2/25/14	8:14	INST (K-1) OBS 4.1 °C COR 4.0 °C
	TA	2/25/14	15:20					INST ____ OBS ____ °C COR ____ °C
					TA	2/26/14	9:00	INST IR3 OBS 3.1 °C COR 2.9 °C

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

REMARKS: Midland - alk/pH/cond
Lubbock - cations/anions/metals/VOC/SVOC
TCLP - Cat anions
- Dry Weight Basis Required
- TRRP Report Required
- Check If Special Reporting Limits Are Needed

Carrier # Carrier FS: 7927056

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

ORIGINAL COPY

*(attached sheet)

NMOCD - Analytical Parameters for Initial Groundwater Sampling (3-12-08)

Field Parameters

specific conductance
pH
temperature
depth to water

PAH - 1 Liter Amber N/P

General Chemistry

Calcium
Magnesium
Potassium
Sodium
Chloride
Sulfate
Bicarbonate Alkalinity
Carbonate Alkalinity
Nitrate
Phosphate
Fluoride

Liter - plastic N/P
Cations / Anions / Alkalinity

RCRA Metals

Arsenic
Barium
Cadmium
Chromium
Lead
Mercury
Selenium
Silver

500 mL plastic - Nitric

Additional WQCC Metals

Copper
Iron
Manganese
Zinc
Aluminum
Boron
Cobalt
Molybdenum
Nickel

VI

All compounds listed in U.S. EPA SW-846 Methods: 8260 (VOCs) & 8270 (SVOCs)

Cation-Anion Balance Sheet

DATE: 3/19/2014

Sample #	Calcium ppm	Magnesium ppm	Sodium ppm	Potassium ppm	Alkalinity ppm	Sulfate ppm	Chloride ppm	Nitrate-N ppm	Fluoride ppm	Bromide ppm	TDS ppm	EC µMHOs/cm
355711	320	300	3210	69.1	548.00	2700	2630	0	4.99			12000
355712	131	147	1560	39	1080.00	1710	1500	0	6.78			8790

Sample #	Calcium in meq/L	Magnesium in meq/L	Sodium in meq/L	Potassium in meq/L	Alkalinity in meq/L	Sulfate in meq/L	Chloride in meq/L	Nitrate-N in meq/L	Fluoride in meq/L	Bromide in meq/L	**Total Cations in meq/L**	**Total Anions in meq/L**	**% Difference***
355711	15.97	24.69	139.64	1.77	10.96	56.21	74.19	0.00	0.26	0.00	182.06	141.63	12.49004761
355712	6.54	12.10	67.86	1.00	21.60	35.60	42.32	0.00	0.36	0.00	87.49	99.87	6.608989262

	EC/Cation	EC/Anion
355711	18205.7578	14162.89736
355712	8749.115	9987.40992

range 10800 to 13200

range 7911 to 9669

TDS/EC	TDS/Cat		TDS/Anion	
0.00	0.00		0.00	needs to be 0.55-0.77
0.00	0.00		0.00	needs to be 0.55-0.77

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915•585•3443 FAX 915•585•4944
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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

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: May 13, 2014

Work Order: 14050807

Project Location: New Mexico
Project Name: 34 Junction to Lea
Project Number: 2002-10286

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
362449	MW-11A	water	2014-05-07	10:37	2014-05-08
362450	MW-12	water	2014-05-07	10:53	2014-05-08
362451	MW-6	water	2014-05-07	11:12	2014-05-08
362452	MW-5	water	2014-05-07	11:23	2014-05-08
362453	MW-10	water	2014-05-07	11:36	2014-05-08
362454	MW-3	water	2014-05-07	11:55	2014-05-08
362455	MW-1	water	2014-05-07	12:10	2014-05-08
362456	MW-7	water	2014-05-07	12:31	2014-05-08
362457	MW-2	water	2014-05-07	12:56	2014-05-08

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

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

Report Contents

Case Narrative

Samples for project 34 Junction to Lea were received by TraceAnalysis, Inc. on 2014-05-08 and assigned to work order 14050807. Samples for work order 14050807 were received intact without headspace and at a temperature of 12.7 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	94566	2014-05-08 at 10:00	111832	2014-05-09 at 08:01
BTEX	S 8021B	94576	2014-05-09 at 10:41	111877	2014-05-12 at 08:16

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 14050807 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 362449 - MW-11A

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	111832	Date Analyzed:	2014-05-09	Analyzed By:	AK
Prep Batch:	94566	Sample Preparation:	2014-05-08	Prepared By:	AK

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0941	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0803	mg/L	1	0.100	80	70 - 130

Sample: 362450 - MW-12

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	111832	Date Analyzed:	2014-05-09	Analyzed By:	AK
Prep Batch:	94566	Sample Preparation:	2014-05-08	Prepared By:	AK

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0962	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0807	mg/L	1	0.100	81	70 - 130

Sample: 362451 - MW-6

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	111832	Date Analyzed:	2014-05-09	Analyzed By:	AK
Prep Batch:	94566	Sample Preparation:	2014-05-08	Prepared By:	AK

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0945	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0788	mg/L	1	0.100	79	70 - 130

Sample: 362452 - MW-5

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	111877	Date Analyzed:	2014-05-12	Analyzed By:	AK
Prep Batch:	94576	Sample Preparation:	2014-05-09	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		1	**0.0235**	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	**0.00650**	mg/L	1	0.00100
Xylene		1	<0.00300	mg/L	1	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0962	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0915	mg/L	1	0.100	92	70 - 130

Sample: 362453 - MW-10

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	111832	Date Analyzed:	2014-05-09	Analyzed By:	AK
Prep Batch:	94566	Sample Preparation:	2014-05-08	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qr	1	**0.157**	mg/L	50	0.00100
Toluene	Qr,U	1	<0.0500	mg/L	50	0.00100
Ethylbenzene	Qr,U	1	<0.0500	mg/L	50	0.00100
Xylene	Qr,U	1	<0.150	mg/L	50	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.73	mg/L	50	5.00	95	70 - 130
4-Bromofluorobenzene (4-BFB)			4.03	mg/L	50	5.00	81	70 - 130

Sample: 362454 - MW-3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	111832	Date Analyzed:	2014-05-09	Analyzed By:	AK
Prep Batch:	94566	Sample Preparation:	2014-05-08	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qr	1	**0.295**	mg/L	50	0.00100
Toluene	Qr,U	1	<0.0500	mg/L	50	0.00100
Ethylbenzene	Qr	1	**0.0579**	mg/L	50	0.00100
Xylene	Qr	1	<0.150	mg/L	50	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.71	mg/L	50	5.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			4.14	mg/L	50	5.00	83	70 - 130

Sample: 362455 - MW-1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	111832	Date Analyzed:	2014-05-09	Analyzed By:	AK
Prep Batch:	94566	Sample Preparation:	2014-05-08	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qr	1	**0.410**	mg/L	50	0.00100
Toluene	Qr,U	1	<0.0500	mg/L	50	0.00100
Ethylbenzene	Qr	1	**0.311**	mg/L	50	0.00100
Xylene	Qr	1	**0.165**	mg/L	50	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.92	mg/L	50	5.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)			4.22	mg/L	50	5.00	84	70 - 130

Sample: 362456 - MW-7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	111832	Date Analyzed:	2014-05-09	Analyzed By:	AK
Prep Batch:	94566	Sample Preparation:	2014-05-08	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qr	1	**0.439**	mg/L	50	0.00100
Toluene	Qr,U	1	<0.0500	mg/L	50	0.00100
Ethylbenzene	Qr	1	**0.146**	mg/L	50	0.00100
Xylene	Qr,U	1	<0.150	mg/L	50	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.60	mg/L	50	5.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			4.18	mg/L	50	5.00	84	70 - 130

Sample: 362457 - MW-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	111877	Date Analyzed:	2014-05-12	Analyzed By:	AK
Prep Batch:	94576	Sample Preparation:	2014-05-09	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	**0.319**	mg/L	50	0.00100
Toluene	U	1	<0.0500	mg/L	50	0.00100
Ethylbenzene		1	**0.0937**	mg/L	50	0.00100
Xylene	U	1	<0.150	mg/L	50	0.00300

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			4.86	mg/L	50	5.00	97	70 - 130
4-Bromofluorobenzene (4-BFB)			4.33	mg/L	50	5.00	87	70 - 130

Method Blanks

Method Blank (1) QC Batch: 111832

QC Batch: 111832 | Date Analyzed: 2014-05-09 | Analyzed By: AK
Prep Batch: 94566 | QC Preparation: 2014-05-08 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000238	mg/L	0.001
Toluene		1	<0.000181	mg/L	0.001
Ethylbenzene		1	<0.000247	mg/L	0.001
Xylene		1	<0.000189	mg/L	0.003

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0976	mg/L	1	0.100	98	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0859	mg/L	1	0.100	86	70 - 130

Method Blank (1) QC Batch: 111877

QC Batch: 111877 | Date Analyzed: 2014-05-12 | Analyzed By: AK
Prep Batch: 94576 | QC Preparation: 2014-05-09 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000238	mg/L	0.001
Toluene		1	<0.000181	mg/L	0.001
Ethylbenzene		1	<0.000247	mg/L	0.001
Xylene		1	<0.000189	mg/L	0.003

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0987	mg/L	1	0.100	99	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0879	mg/L	1	0.100	88	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 111832 | Date Analyzed: 2014-05-09 | Analyzed By: AK
Prep Batch: 94566 | QC Preparation: 2014-05-08 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.102	mg/L	1	0.100	<0.000238	102	70 - 130
Toluene		1	0.104	mg/L	1	0.100	<0.000181	104	70 - 130
Ethylbenzene		1	0.101	mg/L	1	0.100	<0.000247	101	70 - 130
Xylene		1	0.308	mg/L	1	0.300	<0.000189	103	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		1	0.103	mg/L	1	0.100	<0.000238	103	70 - 130	1	20
Toluene		1	0.106	mg/L	1	0.100	<0.000181	106	70 - 130	2	20
Ethylbenzene		1	0.103	mg/L	1	0.100	<0.000247	103	70 - 130	2	20
Xylene		1	0.314	mg/L	1	0.300	<0.000189	105	70 - 130	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0989	0.0970	mg/L	1	0.100	99	97	70 - 130
4-Bromofluorobenzene (4-BFB)	0.106	0.103	mg/L	1	0.100	106	103	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 111877 | Date Analyzed: 2014-05-12 | Analyzed By: AK
Prep Batch: 94576 | QC Preparation: 2014-05-09 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.101	mg/L	1	0.100	<0.000238	101	70 - 130
Toluene		1	0.103	mg/L	1	0.100	<0.000181	103	70 - 130
Ethylbenzene		1	0.100	mg/L	1	0.100	<0.000247	100	70 - 130
Xylene		1	0.307	mg/L	1	0.300	<0.000189	102	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		1	0.0972	mg/L	1	0.100	<0.000238	97	70 - 130	4	20
Toluene		1	0.100	mg/L	1	0.100	<0.000181	100	70 - 130	3	20
Ethylbenzene		1	0.0978	mg/L	1	0.100	<0.000247	98	70 - 130	2	20
Xylene		1	0.300	mg/L	1	0.300	<0.000189	100	70 - 130	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0973	0.0964	mg/L	1	0.100	97	96	70 - 130
4-Bromofluorobenzene (4-BFB)	0.101	0.104	mg/L	1	0.100	101	104	70 - 130

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 362435

QC Batch: 111832 | Date Analyzed: 2014-05-09 | Analyzed By: AK
Prep Batch: 94566 | QC Preparation: 2014-05-08 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.105	mg/L	1	0.100	<0.000238	105	70 - 130
Toluene		1	0.107	mg/L	1	0.100	<0.000181	107	70 - 130
Ethylbenzene		1	0.102	mg/L	1	0.100	<0.000247	102	70 - 130
Xylene		1	0.309	mg/L	1	0.300	<0.000189	103	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	Qr	Qr	1	0.0798	mg/L	1	0.100	<0.000238	80	70 - 130	27	20
Toluene	Qr	Qr	1	0.0807	mg/L	1	0.100	<0.000181	81	70 - 130	28	20
Ethylbenzene	Qr	Qr	1	0.0774	mg/L	1	0.100	<0.000247	77	70 - 130	27	20
Xylene	Qr	Qr	1	0.236	mg/L	1	0.300	<0.000189	79	70 - 130	27	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)	0.0994	0.0987	mg/L	1	0.1	99	99	70 - 130
4-Bromofluorobenzene (4-BFB)	0.104	0.102	mg/L	1	0.1	104	102	70 - 130

Matrix Spike (MS-1) Spiked Sample: 362457

QC Batch: 111877 | Date Analyzed: 2014-05-12 | Analyzed By: AK
Prep Batch: 94576 | QC Preparation: 2014-05-09 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	5.50	mg/L	50	5.00	0.319	104	70 - 130
Toluene		1	5.24	mg/L	50	5.00	<0.00905	105	70 - 130
Ethylbenzene		1	5.17	mg/L	50	5.00	0.0937	102	70 - 130
Xylene		1	15.5	mg/L	50	15.0	<0.00945	103	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		1	5.44	mg/L	50	5.00	0.319	102	70 - 130	1	20
Toluene		1	5.11	mg/L	50	5.00	<0.00905	102	70 - 130	2	20
Ethylbenzene		1	5.03	mg/L	50	5.00	0.0937	99	70 - 130	3	20
Xylene		1	15.2	mg/L	50	15.0	<0.00945	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)	5.09	4.89	mg/L	50	5	102	98	70 - 130
4-Bromofluorobenzene (4-BFB)	5.21	5.18	mg/L	50	5	104	104	70 - 130

Calibration Standards

Standard (CCV-2)

QC Batch: 111832 | Date Analyzed: 2014-05-09 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.100	100	80 - 120	2014-05-09
Toluene		1	mg/L	0.100	0.103	103	80 - 120	2014-05-09
Ethylbenzene		1	mg/L	0.100	0.0975	98	80 - 120	2014-05-09
Xylene		1	mg/L	0.300	0.297	99	80 - 120	2014-05-09

Standard (CCV-3)

QC Batch: 111832 | Date Analyzed: 2014-05-09 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.102	102	80 - 120	2014-05-09
Toluene		1	mg/L	0.100	0.104	104	80 - 120	2014-05-09
Ethylbenzene		1	mg/L	0.100	0.0994	99	80 - 120	2014-05-09
Xylene		1	mg/L	0.300	0.303	101	80 - 120	2014-05-09

Standard (CCV-2)

QC Batch: 111877 | Date Analyzed: 2014-05-12 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0994	99	80 - 120	2014-05-12
Toluene		1	mg/L	0.100	0.101	101	80 - 120	2014-05-12
Ethylbenzene		1	mg/L	0.100	0.0953	95	80 - 120	2014-05-12
Xylene		1	mg/L	0.300	0.291	97	80 - 120	2014-05-12

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-13-7	Midland

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 then 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.
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 # 14050807

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

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

Brandon & Clark, 3403 Industrial Blvd., Hobbs, NM 88240, Tel (575) 392-7561, Fax (575) 392-4508

Company Name: NOVA

Phone #: (432) 520-7720

Address: (Street, City, Zip) 2057 Commerce Midland TX

Fax #:

Contact Person: Curt Stanley

E-mail: cjbryant@paalp.com

Invoice to: (If different from above) Plains

Project #: 2002-10286

Project Name: 34 J to Lea

Project Location (including state):

Sampler Signature:

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC						Turn Around Time if different from standard	Hold
362449	MW 11A	3	VOA	X				X				X		5/7/14	1037		X																							
450	MW 12	↓	↓	↓				↓				↓		↓	1053		↓																								
451	MW 6														1112																									
452	MW 5														1123																									
453	MW 10														1136																									
454	MW 3														1155																									
455	MW 1														1210																									
456	MW 7														1231																									
457	MW 2	↓	↓	↓				↓				↓		↓	1256		↓																								

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
David Fletcher	NOVA	5/8/14			TAS	5/8/14	8:15	INST 12.9 °C, OBS 12.9 °C, COR 12.9 °C
								INST ____ °C, OBS ____ °C, COR ____ °C
								INST ____ °C, OBS ____ °C, COR ____ °C

LAB USE ONLY

Intact Y / N

Headspace Y / N / NA

Log-in-Review

REMARKS: Mailed w/ all

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

Carrier # Carry

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

ORIGINAL COPY

TRACEANALYSIS, INC.

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: August 26, 2014

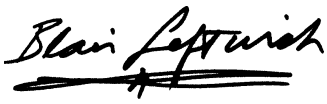
Work Order: 14081803

Project Location: New Mexico
Project Name: 34 Junction to Lea
Project Number: 2002-10286

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
372024	MW-11A	water	2014-08-16	11:45	2014-08-18
372025	MW-12	water	2014-08-16	12:00	2014-08-18
372026	MW-6	water	2014-08-16	12:18	2014-08-18
372027	MW-5	water	2014-08-16	12:32	2014-08-18
372028	MW-10	water	2014-08-16	12:55	2014-08-18
372029	MW-3	water	2014-08-16	13:30	2014-08-18
372030	MW-1	water	2014-08-16	13:47	2014-08-18
372031	MW-7	water	2014-08-16	14:04	2014-08-18
372032	MW-2	water	2014-08-16	14:21	2014-08-18

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



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

Report Contents

Case Narrative

Samples for project 34 Junction to Lea were received by TraceAnalysis, Inc. on 2014-08-18 and assigned to work order 14081803. Samples for work order 14081803 were received intact without headspace and at a temperature of 4.4 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	97079	2014-08-21 at 15:26	114795	2014-08-21 at 15:26
BTEX	S 8021B	97091	2014-08-21 at 15:32	114811	2014-08-21 at 15:32

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 14081803 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 372024 - MW-11A

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	114795	Date Analyzed:	2014-08-21	Analyzed By:	JS
Prep Batch:	97079	Sample Preparation:	2014-08-21	Prepared By:	JS

Parameter	Flag	Cert	Result	RL 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	0.100	mg/L	1	0.100	100	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0943	mg/L	1	0.100	94	70 - 130

Sample: 372025 - MW-12

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	114795	Date Analyzed:	2014-08-21	Analyzed By:	JS
Prep Batch:	97079	Sample Preparation:	2014-08-21	Prepared By:	JS

Parameter	Flag	Cert	Result	RL 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	0.102	mg/L	1	0.100	102	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0893	mg/L	1	0.100	89	70 - 130

Sample: 372026 - MW-6

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	114795	Date Analyzed:	2014-08-21	Analyzed By:	JS
Prep Batch:	97079	Sample Preparation:	2014-08-21	Prepared By:	JS

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		1,2,3,4,5	**0.00300**	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	0.104	mg/L	1	0.100	104	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0930	mg/L	1	0.100	93	70 - 130

Sample: 372027 - MW-5

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	114795	Date Analyzed:	2014-08-21	Analyzed By:	JS
Prep Batch:	97079	Sample Preparation:	2014-08-21	Prepared By:	JS

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		1,2,3,4,5	**0.0279**	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	**0.0103**	mg/L	1	0.00100
Xylene		1,2,3,4,5	**0.00470**	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	0.101	mg/L	1	0.100	101	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0944	mg/L	1	0.100	94	70 - 130

Sample: 372028 - MW-10

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	114795	Date Analyzed:	2014-08-21	Analyzed By:	JS
Prep Batch:	97079	Sample Preparation:	2014-08-21	Prepared By:	JS

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		1,2,3,4,5	**0.231**	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	**0.00350**	mg/L	1	0.00100
Xylene		1,2,3,4,5	**0.00130**	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	0.102	mg/L	1	0.100	102	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0959	mg/L	1	0.100	96	70 - 130

Sample: 372029 - MW-3

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	114795	Date Analyzed:	2014-08-21	Analyzed By:	JS
Prep Batch:	97079	Sample Preparation:	2014-08-21	Prepared By:	JS

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		1,2,3,4,5	**0.403**	mg/L	50	0.00100
Toluene	U	1,2,3,4,5	<0.0500	mg/L	50	0.00100
Ethylbenzene		1,2,3,4,5	<0.0500	mg/L	50	0.00100
Xylene		1,2,3,4,5	**0.0643**	mg/L	50	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	5.20	mg/L	50	5.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)		5	4.66	mg/L	50	5.00	93	70 - 130

Sample: 372030 - MW-1

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	114795	Date Analyzed:	2014-08-21	Analyzed By:	JS
Prep Batch:	97079	Sample Preparation:	2014-08-21	Prepared By:	JS

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		1,2,3,4,5	**0.446**	mg/L	50	0.00100
Toluene	U	1,2,3,4,5	<0.0500	mg/L	50	0.00100
Ethylbenzene		1,2,3,4,5	**0.553**	mg/L	50	0.00100
Xylene		1,2,3,4,5	**0.266**	mg/L	50	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	5.01	mg/L	50	5.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)		5	4.68	mg/L	50	5.00	94	70 - 130

Sample: 372031 - MW-7

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	114795	Date Analyzed:	2014-08-21	Analyzed By:	JS
Prep Batch:	97079	Sample Preparation:	2014-08-21	Prepared By:	JS

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		1,2,3,4,5	**0.570**	mg/L	50	0.00100
Toluene	U	1,2,3,4,5	<0.0500	mg/L	50	0.00100
Ethylbenzene		1,2,3,4,5	**0.259**	mg/L	50	0.00100
Xylene		1,2,3,4,5	**0.0893**	mg/L	50	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	5.10	mg/L	50	5.00	102	70 - 130
4-Bromofluorobenzene (4-BFB)		5	4.64	mg/L	50	5.00	93	70 - 130

Sample: 372032 - MW-2

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	114811	Date Analyzed:	2014-08-21	Analyzed By:	MT
Prep Batch:	97091	Sample Preparation:	2014-08-21	Prepared By:	MT

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Benzene		1,2,3,4,5	**0.274**		mg/L	50	0.00100
Toluene	U	1,2,3,4,5	<0.0500		mg/L	50	0.00100
Ethylbenzene		1,2,3,4,5	<0.0500		mg/L	50	0.00100
Xylene		1,2,3,4,5	<0.0500		mg/L	50	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	5.51	mg/L	50	5.00	110	75.4 - 120
4-Bromofluorobenzene (4-BFB)		5	4.84	mg/L	50	5.00	97	74.6 - 120

Method Blanks

Method Blank (1) QC Batch: 114795

QC Batch: 114795 | Date Analyzed: 2014-08-21 | Analyzed By: JS
Prep Batch: 97079 | QC Preparation: 2014-08-21 | Prepared By: JS

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1,2,3,4,5	<0.000303	mg/L	0.001
Toluene		1,2,3,4,5	<0.000303	mg/L	0.001
Ethylbenzene		1,2,3,4,5	<0.000266	mg/L	0.001
Xylene		1,2,3,4,5	<0.000265	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	0.102	mg/L	1	0.100	102	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0944	mg/L	1	0.100	94	70 - 130

Method Blank (1) QC Batch: 114811

QC Batch: 114811 | Date Analyzed: 2014-08-21 | Analyzed By: MT
Prep Batch: 97091 | QC Preparation: 2014-08-21 | Prepared By: MT

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1,2,3,4,5	<0.000188	mg/L	0.001
Toluene		1,2,3,4,5	<0.000160	mg/L	0.001
Ethylbenzene		1,2,3,4,5	<0.000119	mg/L	0.001
Xylene		1,2,3,4,5	<0.000142	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	0.109	mg/L	1	0.100	109	75.4 - 120
4-Bromofluorobenzene (4-BFB)		5	0.0952	mg/L	1	0.100	95	74.6 - 120

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 114795 | Date Analyzed: 2014-08-21 | Analyzed By: JS
Prep Batch: 97079 | QC Preparation: 2014-08-21 | Prepared By: JS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1,2,3,4,5	0.102	mg/L	1	0.100	<0.000303	102	70 - 130
Toluene		1,2,3,4,5	0.104	mg/L	1	0.100	<0.000303	104	70 - 130
Ethylbenzene		1,2,3,4,5	0.101	mg/L	1	0.100	<0.000266	101	70 - 130
Xylene		1,2,3,4,5	0.309	mg/L	1	0.300	<0.000265	103	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		1,2,3,4,5	0.102	mg/L	1	0.100	<0.000303	102	70 - 130	1	20
Toluene		1,2,3,4,5	0.105	mg/L	1	0.100	<0.000303	105	70 - 130	1	20
Ethylbenzene		1,2,3,4,5	0.103	mg/L	1	0.100	<0.000266	103	70 - 130	2	20
Xylene		1,2,3,4,5	0.314	mg/L	1	0.300	<0.000265	105	70 - 130	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	0.104	0.103	mg/L	1	0.100	104	103	70 - 130
4-Bromofluorobenzene (4-BFB)	5	0.0968	0.0973	mg/L	1	0.100	97	97	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 114811 | Date Analyzed: 2014-08-21 | Analyzed By: MT
Prep Batch: 97091 | QC Preparation: 2014-08-21 | Prepared By: MT

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1,2,3,4,5	0.100	mg/L	1	0.100	<0.000188	100	74.3 - 120
Toluene		1,2,3,4,5	0.101	mg/L	1	0.100	<0.000160	101	77.6 - 120
Ethylbenzene		1,2,3,4,5	0.101	mg/L	1	0.100	<0.000119	101	78.5 - 120
Xylene		1,2,3,4,5	0.287	mg/L	1	0.300	<0.000142	96	77.6 - 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	0.102	mg/L	1	0.100	<0.000188	102	74.3 - 120	2	20
Toluene		1,2,3,4,5	0.103	mg/L	1	0.100	<0.000160	103	77.6 - 120	2	20
Ethylbenzene		1,2,3,4,5	0.103	mg/L	1	0.100	<0.000119	103	78.5 - 120	2	20
Xylene		1,2,3,4,5	0.294	mg/L	1	0.300	<0.000142	98	77.6 - 120	2	20

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

Surrogate		LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	5	0.101	0.105	mg/L	1	0.100	101	105	75.4 - 120
4-Bromofluorobenzene (4-BFB)	5	0.105	0.109	mg/L	1	0.100	105	109	74.6 - 120

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 372296

QC Batch: 114795 | Date Analyzed: 2014-08-21 | Analyzed By: JS
Prep Batch: 97079 | QC Preparation: 2014-08-21 | Prepared By: JS

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1,2,3,4,5	0.103	mg/L	1	0.100	<0.000303	103	70 - 130
Toluene		1,2,3,4,5	0.106	mg/L	1	0.100	<0.000303	106	70 - 130
Ethylbenzene		1,2,3,4,5	0.103	mg/L	1	0.100	<0.000266	103	70 - 130
Xylene		1,2,3,4,5	0.312	mg/L	1	0.300	<0.000265	104	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		1,2,3,4,5	0.104	mg/L	1	0.100	<0.000303	104	70 - 130	1	20
Toluene		1,2,3,4,5	0.105	mg/L	1	0.100	<0.000303	105	70 - 130	1	20
Ethylbenzene		1,2,3,4,5	0.102	mg/L	1	0.100	<0.000266	102	70 - 130	0	20
Xylene		1,2,3,4,5	0.312	mg/L	1	0.300	<0.000265	104	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)	5	0.104	0.102	mg/L	1	0.1	104	102	70 - 130
4-Bromofluorobenzene (4-BFB)	5	0.0963	0.0965	mg/L	1	0.1	96	96	70 - 130

Matrix Spike (MS-1) Spiked Sample: 372239

QC Batch: 114811 | Date Analyzed: 2014-08-21 | Analyzed By: MT
Prep Batch: 97091 | QC Preparation: 2014-08-21 | Prepared By: MT

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1,2,3,4,5	0.0885	mg/L	1	0.100	<0.000188	88	50.2 - 129
Toluene		1,2,3,4,5	0.0867	mg/L	1	0.100	<0.000160	87	58.1 - 129
Ethylbenzene		1,2,3,4,5	0.0877	mg/L	1	0.100	<0.000119	88	58.1 - 127
Xylene		1,2,3,4,5	0.247	mg/L	1	0.300	<0.000142	82	53.1 - 128

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1,2,3,4,5	0.0888	mg/L	1	0.100	<0.000188	89	50.2 - 129	0	20
Toluene		1,2,3,4,5	0.0870	mg/L	1	0.100	<0.000160	87	58.1 - 129	0	20
Ethylbenzene		1,2,3,4,5	0.0876	mg/L	1	0.100	<0.000119	88	58.1 - 127	0	20
Xylene		1,2,3,4,5	0.247	mg/L	1	0.300	<0.000142	82	53.1 - 128	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	0.109	0.105	mg/L	1	0.1	109	105	75.4 - 120
4-Bromofluorobenzene (4-BFB)	5	0.111	0.106	mg/L	1	0.1	111	106	74.6 - 120

Calibration Standards

Standard (CCV-2)

QC Batch: 114795 | Date Analyzed: 2014-08-21 | 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	0.102	102	80 - 120	2014-08-21
Toluene		1,2,3,4,5	mg/L	0.100	0.103	103	80 - 120	2014-08-21
Ethylbenzene		1,2,3,4,5	mg/L	0.100	0.100	100	80 - 120	2014-08-21
Xylene		1,2,3,4,5	mg/L	0.300	0.305	102	80 - 120	2014-08-21

Standard (CCV-3)

QC Batch: 114795 | Date Analyzed: 2014-08-21 | 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	0.103	103	80 - 120	2014-08-21
Toluene		1,2,3,4,5	mg/L	0.100	0.106	106	80 - 120	2014-08-21
Ethylbenzene		1,2,3,4,5	mg/L	0.100	0.104	104	80 - 120	2014-08-21
Xylene		1,2,3,4,5	mg/L	0.300	0.316	105	80 - 120	2014-08-21

Standard (CCV-1)

QC Batch: 114811 | Date Analyzed: 2014-08-21 | Analyzed By: MT

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	0.0995	100	80 - 120	2014-08-21
Toluene		1,2,3,4,5	mg/L	0.100	0.0998	100	80 - 120	2014-08-21
Ethylbenzene		1,2,3,4,5	mg/L	0.100	0.101	101	80 - 120	2014-08-21
Xylene		1,2,3,4,5	mg/L	0.300	0.285	95	80 - 120	2014-08-21

Standard (CCV-2)

QC Batch: 114811 | Date Analyzed: 2014-08-21 | Analyzed By: MT

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	0.101	101	80 - 120	2014-08-21
Toluene		1,2,3,4,5	mg/L	0.100	0.102	102	80 - 120	2014-08-21
Ethylbenzene		1,2,3,4,5	mg/L	0.100	0.103	103	80 - 120	2014-08-21
Xylene		1,2,3,4,5	mg/L	0.300	0.292	97	80 - 120	2014-08-21

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	PJLA	L14-93	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-14-10	Lubbock
5		2013-083	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 then 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.

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 # 14081803

Page _____ of _____

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

Company Name: Nova
Phone #: (432) 520-7720
Address: (Street, City, Zip) 2057 Commerce Midland
Fax #:
Contact Person: ~~[illegible]~~ Curt Stanley
E-mail:
Invoice to: (If different from above) Plains
Project #: 2002-10286
Project Name: 34 J Lea
Project Location (including state):
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
372024	MW 11 A	3	VOA	X				X				X		8/16/14	1145
025	MW 12	3													1200
026	MW 6	3													1218
027	MW 5	3													1232
028	MW 10	3													1255
029	MW 3	3													1330
030	MW 1	3													1347
031	MW 7	3													1404
032	MW 2	3													1421

ANALYSIS REQUEST (Circle or Specify Method No.):

MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
	X																						

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
[signature]	Nova	8/18/14	0827	[signature]	TA	8/18/14	8:27	INST [illegible] OBS 45 °C COR 44 °C
								INST ____ °C OBS ____ °C COR ____ °C
								INST ____ °C OBS ____ °C COR ____ °C

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

REMARKS:

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

Carrier # Carry

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

ORIGINAL COPY

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

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: December 12, 2014

Work Order: 14111224

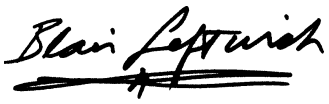
Project Location: Eunice, NM
Project Name: 34 Junction to Lea Station
Project Number: NM 2001
SRS #: 2002-10286

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
379223	MW-4	water	2014-11-11	12:00	2014-11-12
379224	MW-8	water	2014-11-11	12:30	2014-11-12
379225	MW-9	water	2014-11-11	12:45	2014-11-12
379226	MW-12	water	2014-11-11	13:01	2014-11-12
379227	MW-11A	water	2014-11-11	13:15	2014-11-12
379228	MW-6	water	2014-11-11	13:31	2014-11-12
379229	MW-5	water	2014-11-11	13:40	2014-11-12
379230	MW-10	water	2014-11-11	13:52	2014-11-12
379231	MW-2	water	2014-11-11	14:04	2014-11-12
379232	MW-3	water	2014-11-11	14:17	2014-11-12
379233	MW-1	water	2014-11-11	14:26	2014-11-12
379234	MW-7	water	2014-11-11	14:37	2014-11-12

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.



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

Report Contents

Case Narrative

Samples for project 34 Junction to Lea Station were received by TraceAnalysis, Inc. on 2014-11-12 and assigned to work order 14111224. Samples for work order 14111224 were received intact without headspace and at a temperature of 3.4 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	99119	2014-11-15 at 12:31	117232	2014-11-15 at 12:31
BTEX	S 8021B	99120	2014-11-15 at 12:31	117233	2014-11-15 at 12:31
BTEX	S 8021B	99184	2014-11-18 at 15:00	117309	2014-11-18 at 15:00
PAH	S 8270D	99723	2014-11-14 at 15:00	117951	2014-12-12 at 12:46

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 14111224 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 379223 - MW-4

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117232	Date Analyzed:	2014-11-15	Analyzed By:	JS
Prep Batch:	99119	Sample Preparation:	2014-11-15	Prepared By:	JS

Parameter	Flag	Cert	Result	RL 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		1,2,3,4,5	**0.00180**	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	0.0940	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0944	mg/L	1	0.100	94	70 - 130

Sample: 379224 - MW-8

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117232	Date Analyzed:	2014-11-15	Analyzed By:	JS
Prep Batch:	99119	Sample Preparation:	2014-11-15	Prepared By:	JS

Parameter	Flag	Cert	Result	RL 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	0.0945	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0938	mg/L	1	0.100	94	70 - 130

Sample: 379225 - MW-9

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117232	Date Analyzed:	2014-11-15	Analyzed By:	JS
Prep Batch:	99119	Sample Preparation:	2014-11-15	Prepared By:	JS

Parameter	Flag	Cert	Result	RL 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	0.0945	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0932	mg/L	1	0.100	93	70 - 130

Sample: 379226 - MW-12

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117232	Date Analyzed:	2014-11-15	Analyzed By:	JS
Prep Batch:	99119	Sample Preparation:	2014-11-15	Prepared By:	JS

Parameter	Flag	Cert	Result	RL 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	0.0937	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0930	mg/L	1	0.100	93	70 - 130

Sample: 379226 - MW-12

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270D	Prep Method:	S 3510C
QC Batch:	117951	Date Analyzed:	2014-12-12	Analyzed By:	MN
Prep Batch:	99723	Sample Preparation:	2014-11-14	Prepared By:	MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
2-Methylnaphthalene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
1-Methylnaphthalene	Qc,Qs,U	1	<0.000200	mg/L	1	0.000200
Acenaphthylene	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Acenaphthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Dibenzofuran	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Fluorene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Anthracene	Qc,Qs,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Phenanthrene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Fluoranthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Pyrene	Qc,Qr,Qs,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(a)anthracene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Chrysene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(a)pyrene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	Qsr	Qsr		0.0407	mg/L	1	8.00	0	10 - 121
2-Fluorobiphenyl				2.78	mg/L	1	8.00	35	20.5 - 120
Terphenyl-d14				2.84	mg/L	1	8.00	36	26.4 - 120

Sample: 379227 - MW-11A

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117232	Date Analyzed:	2014-11-15	Analyzed By:	JS
Prep Batch:	99119	Sample Preparation:	2014-11-15	Prepared By:	JS

Parameter	Flag	Cert	RL 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	0.0932	mg/L	1	0.100	93	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0946	mg/L	1	0.100	95	70 - 130

Sample: 379227 - MW-11A

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270D	Prep Method:	S 3510C
QC Batch:	117951	Date Analyzed:	2014-12-12	Analyzed By:	MN
Prep Batch:	99723	Sample Preparation:	2014-11-14	Prepared By:	MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
2-Methylnaphthalene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
1-Methylnaphthalene	Qc,Qs,U	1	<0.000200	mg/L	1	0.000200
Acenaphthylene	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Acenaphthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Dibenzofuran	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Fluorene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Anthracene	Qc,Qs,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Phenanthrene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Fluoranthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Pyrene	Qc,Qr,Qs,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(a)anthracene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Chrysene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(a)pyrene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	Qsr	Qsr		0.0397	mg/L	1	8.00	0	10 - 121
2-Fluorobiphenyl				2.61	mg/L	1	8.00	33	20.5 - 120
Terphenyl-d14				2.56	mg/L	1	8.00	32	26.4 - 120

Sample: 379228 - MW-6

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117232	Date Analyzed:	2014-11-15	Analyzed By:	JS
Prep Batch:	99119	Sample Preparation:	2014-11-15	Prepared By:	JS

Parameter	Flag	Cert	RL 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	0.0921	mg/L	1	0.100	92	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0919	mg/L	1	0.100	92	70 - 130

Sample: 379229 - MW-5

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117232	Date Analyzed:	2014-11-15	Analyzed By:	JS
Prep Batch:	99119	Sample Preparation:	2014-11-15	Prepared By:	JS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1,2,3,4,5	**0.0548**	mg/L	50	0.00100
Toluene	U	1,2,3,4,5	<0.0500	mg/L	50	0.00100
Ethylbenzene		1,2,3,4,5	**0.331**	mg/L	50	0.00100
Xylene		1,2,3,4,5	**0.0648**	mg/L	50	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	4.62	mg/L	50	5.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)		5	4.73	mg/L	50	5.00	95	70 - 130

Sample: 379230 - MW-10

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117309	Date Analyzed:	2014-11-18	Analyzed By:	JS
Prep Batch:	99184	Sample Preparation:	2014-11-18	Prepared By:	JS

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene [1]	U	1,2,3,4,5	<0.0200	mg/L	20	0.00100
Toluene	U	1,2,3,4,5	<0.0200	mg/L	20	0.00100
Ethylbenzene		1,2,3,4,5	**0.0216**	mg/L	20	0.00100
Xylene		1,2,3,4,5	<0.0200	mg/L	20	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	1.92	mg/L	20	2.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)		5	1.82	mg/L	20	2.00	91	70 - 130

Sample: 379231 - MW-2

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117233	Date Analyzed:	2014-11-15	Analyzed By:	JS
Prep Batch:	99120	Sample Preparation:	2014-11-15	Prepared By:	JS

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		1,2,3,4,5	**0.434**	mg/L	50	0.00100
Toluene	U	1,2,3,4,5	<0.0500	mg/L	50	0.00100
Ethylbenzene		1,2,3,4,5	**0.0963**	mg/L	50	0.00100
Xylene		1,2,3,4,5	**0.0944**	mg/L	50	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	4.65	mg/L	50	5.00	93	70 - 130
4-Bromofluorobenzene (4-BFB)		5	4.68	mg/L	50	5.00	94	70 - 130

Sample: 379232 - MW-3

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117233	Date Analyzed:	2014-11-15	Analyzed By:	JS
Prep Batch:	99120	Sample Preparation:	2014-11-15	Prepared By:	JS

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene		1,2,3,4,5	**0.372**	mg/L	50	0.00100
Toluene	U	1,2,3,4,5	<0.0500	mg/L	50	0.00100
Ethylbenzene		1,2,3,4,5	<0.0500	mg/L	50	0.00100
Xylene		1,2,3,4,5	**0.0754**	mg/L	50	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	4.67	mg/L	50	5.00	93	70 - 130
4-Bromofluorobenzene (4-BFB)		5	4.85	mg/L	50	5.00	97	70 - 130

Sample: 379232 - MW-3

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270D	Prep Method:	S 3510C
QC Batch:	117951	Date Analyzed:	2014-12-12	Analyzed By:	MN
Prep Batch:	99723	Sample Preparation:	2014-11-14	Prepared By:	MN

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Naphthalene		1,2,3,4,5	**0.00497**	mg/L	1	0.000200
2-Methylnaphthalene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
1-Methylnaphthalene	Qc,Qs	1	**0.0512**	mg/L	1	0.000200
Acenaphthylene	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Acenaphthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Dibenzofuran	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Fluorene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Anthracene	Qc,Qs,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Phenanthrene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Fluoranthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Pyrene	Qc,Qr,Qs,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(a)anthracene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Chrysene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(a)pyrene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200

continued ...

sample 379232 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	Qsr	Qsr		0.0270	mg/L	1	8.00	0	10 - 121
2-Fluorobiphenyl				1.95	mg/L	1	8.00	24	20.5 - 120
Terphenyl-d14	Qsr	Qsr		1.83	mg/L	1	8.00	23	26.4 - 120

Sample: 379233 - MW-1

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117233	Date Analyzed:	2014-11-15	Analyzed By:	JS
Prep Batch:	99120	Sample Preparation:	2014-11-15	Prepared By:	JS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1,2,3,4,5	**0.380**	mg/L	50	0.00100
Toluene	U	1,2,3,4,5	<0.0500	mg/L	50	0.00100
Ethylbenzene		1,2,3,4,5	**0.474**	mg/L	50	0.00100
Xylene		1,2,3,4,5	**0.203**	mg/L	50	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	4.71	mg/L	50	5.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)		5	4.86	mg/L	50	5.00	97	70 - 130

Sample: 379233 - MW-1

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270D	Prep Method:	S 3510C
QC Batch:	117951	Date Analyzed:	2014-12-12	Analyzed By:	MN
Prep Batch:	99723	Sample Preparation:	2014-11-14	Prepared By:	MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene		1,2,3,4,5	**0.0440**	mg/L	1	0.000200
2-Methylnaphthalene		1,2,3,4,5	**0.0142**	mg/L	1	0.000200
1-Methylnaphthalene	Qc,Qs	1	**0.0656**	mg/L	1	0.000200

continued . . .

sample 379233 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Acenaphthylene	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Acenaphthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Dibenzofuran	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Fluorene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Anthracene	Qc,Qs,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Phenanthrene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Fluoranthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Pyrene	Qc,Qr,Qs,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(a)anthracene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Chrysene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(a)pyrene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	Qsr	Qsr		0.0344	mg/L	1	8.00	0	10 - 121
2-Fluorobiphenyl				2.50	mg/L	1	8.00	31	20.5 - 120
Terphenyl-d14				2.49	mg/L	1	8.00	31	26.4 - 120

Sample: 379234 - MW-7

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	117233	Date Analyzed:	2014-11-15	Analyzed By:	JS
Prep Batch:	99120	Sample Preparation:	2014-11-15	Prepared By:	JS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1,2,3,4,5	**0.575**	mg/L	50	0.00100
Toluene	U	1,2,3,4,5	<0.0500	mg/L	50	0.00100
Ethylbenzene		1,2,3,4,5	**0.310**	mg/L	50	0.00100
Xylene		1,2,3,4,5	**0.0995**	mg/L	50	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	4.66	mg/L	50	5.00	93	70 - 130

continued . . .

sample continued . . .

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		5	4.93	mg/L	50	5.00	99	70 - 130

Sample: 379234 - MW-7

Laboratory:	Lubbock				
Analysis:	PAH	Analytical Method:	S 8270D	Prep Method:	S 3510C
QC Batch:	117951	Date Analyzed:	2014-12-12	Analyzed By:	MN
Prep Batch:	99723	Sample Preparation:	2014-11-14	Prepared By:	MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene		1,2,3,4,5	**0.0260**	mg/L	1	0.000200
2-Methylnaphthalene		1,2,3,4,5	**0.00821**	mg/L	1	0.000200
1-Methylnaphthalene	Qc,Qs	1	**0.0549**	mg/L	1	0.000200
Acenaphthylene	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Acenaphthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Dibenzofuran	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Fluorene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Anthracene	Qc,Qs,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Phenanthrene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Fluoranthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Pyrene	Qc,Qr,Qs,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(a)anthracene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Chrysene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(b)fluoranthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(k)fluoranthene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(a)pyrene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Indeno(1,2,3-cd)pyrene	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Dibenzo(a,h)anthracene	Qc,U	1,2,3,4,5	<0.000200	mg/L	1	0.000200
Benzo(g,h,i)perylene	U	1,2,3,4,5	<0.000200	mg/L	1	0.000200

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	Qsr	Qsr		0.0278	mg/L	1	8.00	0	10 - 121
2-Fluorobiphenyl				2.04	mg/L	1	8.00	26	20.5 - 120
Terphenyl-d14	Qsr	Qsr		2.11	mg/L	1	8.00	26	26.4 - 120

Method Blanks

Method Blank (1) QC Batch: 117232

QC Batch: 117232 | Date Analyzed: 2014-11-15 | Analyzed By: JS
Prep Batch: 99119 | QC Preparation: 2014-11-15 | Prepared By: JS

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1,2,3,4,5	<0.000303	mg/L	0.001
Toluene		1,2,3,4,5	<0.000303	mg/L	0.001
Ethylbenzene		1,2,3,4,5	<0.000266	mg/L	0.001
Xylene		1,2,3,4,5	<0.000265	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	0.0939	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0930	mg/L	1	0.100	93	70 - 130

Method Blank (1) QC Batch: 117233

QC Batch: 117233 | Date Analyzed: 2014-11-15 | Analyzed By: JS
Prep Batch: 99120 | QC Preparation: 2014-11-15 | Prepared By: JS

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1,2,3,4,5	<0.000303	mg/L	0.001
Toluene		1,2,3,4,5	<0.000303	mg/L	0.001
Ethylbenzene		1,2,3,4,5	<0.000266	mg/L	0.001
Xylene		1,2,3,4,5	<0.000265	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	0.0922	mg/L	1	0.100	92	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0905	mg/L	1	0.100	90	70 - 130

Method Blank (1) QC Batch: 117309

QC Batch: 117309 | Date Analyzed: 2014-11-18 | Analyzed By: JS
Prep Batch: 99184 | QC Preparation: 2014-11-18 | Prepared By: JS

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1,2,3,4,5	<0.000303	mg/L	0.001
Toluene		1,2,3,4,5	<0.000303	mg/L	0.001
Ethylbenzene		1,2,3,4,5	<0.000266	mg/L	0.001
Xylene		1,2,3,4,5	<0.000265	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		5	0.0954	mg/L	1	0.100	95	70 - 130
4-Bromofluorobenzene (4-BFB)		5	0.0920	mg/L	1	0.100	92	70 - 130

Method Blank (1) QC Batch: 117951

QC Batch: 117951 | Date Analyzed: 2014-12-12 | Analyzed By: MN
Prep Batch: 99723 | QC Preparation: 2014-11-14 | Prepared By: MN

Parameter	Flag	Cert	MDL Result	Units	RL
Naphthalene		1,2,3,4,5	<0.0000708	mg/L	0.0002
2-Methylnaphthalene		1,2,3,4,5	<0.0000834	mg/L	0.0002
1-Methylnaphthalene		1	<0.000107	mg/L	0.0002
Acenaphthylene		1,2,3,4,5	<0.0000823	mg/L	0.0002
Acenaphthene		1,2,3,4,5	<0.0000888	mg/L	0.0002
Dibenzofuran		1,2,3,4,5	<0.0000787	mg/L	0.0002
Fluorene		1,2,3,4,5	<0.0000670	mg/L	0.0002
Anthracene		1,2,3,4,5	<0.0000838	mg/L	0.0002
Phenanthrene		1,2,3,4,5	<0.000106	mg/L	0.0002
Fluoranthene		1,2,3,4,5	<0.0000885	mg/L	0.0002
Pyrene		1,2,3,4,5	<0.000149	mg/L	0.0002
Benzo(a)anthracene		1,2,3,4,5	<0.000146	mg/L	0.0002
Chrysene		1,2,3,4,5	<0.000157	mg/L	0.0002
Benzo(b)fluoranthene		1,2,3,4,5	<0.000146	mg/L	0.0002
Benzo(k)fluoranthene		1,2,3,4,5	<0.000152	mg/L	0.0002
Benzo(a)pyrene		1,2,3,4,5	<0.000141	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		1,2,3,4,5	<0.000160	mg/L	0.0002
Dibenzo(a,h)anthracene		1,2,3,4,5	<0.000127	mg/L	0.0002
Benzo(g,h,i)perylene		1,2,3,4,5	<0.000175	mg/L	0.0002

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5 Qsr	Qsr		0.0332	mg/L	1	8.00	0	10 - 121
2-Fluorobiphenyl			4.37	mg/L	1	8.00	55	20.5 - 120

continued . . .

method blank continued . . .

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Terphenyl-d14			4.51	mg/L	1	8.00	56	26.4 - 120

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117232 | Date Analyzed: 2014-11-15 | Analyzed By: JS
Prep Batch: 99119 | QC Preparation: 2014-11-15 | Prepared By: JS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1,2,3,4,5	0.0945	mg/L	1	0.100	<0.000303	94	70 - 130
Toluene		1,2,3,4,5	0.0965	mg/L	1	0.100	<0.000303	96	70 - 130
Ethylbenzene		1,2,3,4,5	0.0958	mg/L	1	0.100	<0.000266	96	70 - 130
Xylene		1,2,3,4,5	0.293	mg/L	1	0.300	<0.000265	98	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		1,2,3,4,5	0.0953	mg/L	1	0.100	<0.000303	95	70 - 130	1	20
Toluene		1,2,3,4,5	0.0947	mg/L	1	0.100	<0.000303	95	70 - 130	2	20
Ethylbenzene		1,2,3,4,5	0.0935	mg/L	1	0.100	<0.000266	94	70 - 130	2	20
Xylene		1,2,3,4,5	0.286	mg/L	1	0.300	<0.000265	95	70 - 130	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	0.0962	0.0967	mg/L	1	0.100	96	97	70 - 130
4-Bromofluorobenzene (4-BFB)	5	0.0944	0.0940	mg/L	1	0.100	94	94	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 117233 | Date Analyzed: 2014-11-15 | Analyzed By: JS
Prep Batch: 99120 | QC Preparation: 2014-11-15 | Prepared By: JS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1,2,3,4,5	0.0999	mg/L	1	0.100	<0.000303	100	70 - 130
Toluene		1,2,3,4,5	0.0996	mg/L	1	0.100	<0.000303	100	70 - 130
Ethylbenzene		1,2,3,4,5	0.0986	mg/L	1	0.100	<0.000266	99	70 - 130
Xylene		1,2,3,4,5	0.302	mg/L	1	0.300	<0.000265	101	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		1,2,3,4,5	0.0960	mg/L	1	0.100	<0.000303	96	70 - 130	4	20
Toluene		1,2,3,4,5	0.0987	mg/L	1	0.100	<0.000303	99	70 - 130	1	20
Ethylbenzene		1,2,3,4,5	0.0977	mg/L	1	0.100	<0.000266	98	70 - 130	1	20
Xylene		1,2,3,4,5	0.299	mg/L	1	0.300	<0.000265	100	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)	5	0.0970	0.0970	mg/L	1	0.100	97	97	70 - 130
4-Bromofluorobenzene (4-BFB)	5	0.0958	0.0956	mg/L	1	0.100	96	96	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 117309 | Date Analyzed: 2014-11-18 | Analyzed By: JS
Prep Batch: 99184 | QC Preparation: 2014-11-18 | Prepared By: JS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1,2,3,4,5	0.0962	mg/L	1	0.100	<0.000303	96	70 - 130
Toluene		1,2,3,4,5	0.0961	mg/L	1	0.100	<0.000303	96	70 - 130
Ethylbenzene		1,2,3,4,5	0.0953	mg/L	1	0.100	<0.000266	95	70 - 130
Xylene		1,2,3,4,5	0.292	mg/L	1	0.300	<0.000265	97	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		1,2,3,4,5	0.0951	mg/L	1	0.100	<0.000303	95	70 - 130	1	20
Toluene		1,2,3,4,5	0.0947	mg/L	1	0.100	<0.000303	95	70 - 130	2	20
Ethylbenzene		1,2,3,4,5	0.0935	mg/L	1	0.100	<0.000266	94	70 - 130	2	20
Xylene		1,2,3,4,5	0.286	mg/L	1	0.300	<0.000265	95	70 - 130	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	0.0966	0.0970	mg/L	1	0.100	97	97	70 - 130
4-Bromofluorobenzene (4-BFB)	5	0.0917	0.0909	mg/L	1	0.100	92	91	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 117951 | Date Analyzed: 2014-12-12 | Analyzed By: MN
Prep Batch: 99723 | QC Preparation: 2014-11-14 | Prepared By: MN

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene		1,2,3,4,5	6.02	mg/L	1	8.00	<0.0000708	75	33.4 - 120
2-Methylnaphthalene		1,2,3,4,5	5.81	mg/L	1	8.00	<0.0000834	73	36.7 - 120
1-Methylnaphthalene	Qs Qs	1	12.7	mg/L	1	8.00	<0.000107	159	37.7 - 120
Acenaphthylene		1,2,3,4,5	7.43	mg/L	1	8.00	<0.0000832	93	39.7 - 120
Acenaphthene		1,2,3,4,5	6.22	mg/L	1	8.00	<0.0000888	78	10 - 120
Dibenzofuran		1,2,3,4,5	6.73	mg/L	1	8.00	<0.0000787	84	27.5 - 120
Fluorene		1,2,3,4,5	5.39	mg/L	1	8.00	<0.0000670	67	32.7 - 120
Anthracene		1,2,3,4,5	9.46	mg/L	1	8.00	<0.0000838	118	23.6 - 120
Phenanthrene		1,2,3,4,5	4.56	mg/L	1	8.00	<0.000106	57	26.7 - 120
Fluoranthene		1,2,3,4,5	4.71	mg/L	1	8.00	<0.0000885	59	19.2 - 120
Pyrene	Qs Qs	1,2,3,4,5	11.2	mg/L	1	8.00	<0.000149	140	34.1 - 120
Benzo(a)anthracene		1,2,3,4,5	5.85	mg/L	1	8.00	<0.000146	73	43.4 - 120
Chrysene		1,2,3,4,5	6.07	mg/L	1	8.00	<0.000157	76	10 - 176
Benzo(b)fluoranthene		1,2,3,4,5	5.56	mg/L	1	8.00	<0.000146	70	18.4 - 120
Benzo(k)fluoranthene		1,2,3,4,5	6.22	mg/L	1	8.00	<0.000152	78	22 - 124
Benzo(a)pyrene		1,2,3,4,5	6.74	mg/L	1	8.00	<0.000141	84	25.1 - 120
Indeno(1,2,3-cd)pyrene		1,2,3,4,5	4.59	mg/L	1	8.00	<0.000160	57	21.3 - 120
Dibenzo(a,h)anthracene		1,2,3,4,5	10.2	mg/L	1	8.00	<0.000127	128	10 - 173
Benzo(g,h,i)perylene		1,2,3,4,5	6.41	mg/L	1	8.00	<0.000175	80	10.7 - 128

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
Naphthalene		1,2,3,4,5	6.13	mg/L	1	8.00	<0.0000708	77	33.4 - 120	2	20
2-Methylnaphthalene		1,2,3,4,5	5.56	mg/L	1	8.00	<0.0000834	70	36.7 - 120	4	20
1-Methylnaphthalene	Qs Qs	1	11.7	mg/L	1	8.00	<0.000107	146	37.7 - 120	8	20
Acenaphthylene		1,2,3,4,5	7.53	mg/L	1	8.00	<0.0000832	94	39.7 - 120	1	20
Acenaphthene		1,2,3,4,5	6.34	mg/L	1	8.00	<0.0000888	79	10 - 120	2	20
Dibenzofuran		1,2,3,4,5	6.81	mg/L	1	8.00	<0.0000787	85	27.5 - 120	1	20
Fluorene		1,2,3,4,5	5.52	mg/L	1	8.00	<0.0000670	69	32.7 - 120	2	20
Anthracene	Qs Qs	1,2,3,4,5	9.87	mg/L	1	8.00	<0.0000838	123	23.6 - 120	4	20
Phenanthrene		1,2,3,4,5	4.97	mg/L	1	8.00	<0.000106	62	26.7 - 120	9	20
Fluoranthene		1,2,3,4,5	4.92	mg/L	1	8.00	<0.0000885	62	19.2 - 120	4	20
Pyrene	Qr Qr	1,2,3,4,5	5.70	mg/L	1	8.00	<0.000149	71	34.1 - 120	65	20
Benzo(a)anthracene		1,2,3,4,5	5.91	mg/L	1	8.00	<0.000146	74	43.4 - 120	1	20
Chrysene		1,2,3,4,5	6.12	mg/L	1	8.00	<0.000157	76	10 - 176	1	20
Benzo(b)fluoranthene		1,2,3,4,5	5.28	mg/L	1	8.00	<0.000146	66	18.4 - 120	5	20
Benzo(k)fluoranthene		1,2,3,4,5	6.06	mg/L	1	8.00	<0.000152	76	22 - 124	3	20
Benzo(a)pyrene		1,2,3,4,5	6.81	mg/L	1	8.00	<0.000141	85	25.1 - 120	1	20

continued ...

control spikes continued ...

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Indeno(1,2,3-cd)pyrene		1,2,3,4,5	4.73	mg/L	1	8.00	<0.000160	59	21.3 - 120	3	20
Dibenzo(a,h)anthracene		1,2,3,4,5	9.47	mg/L	1	8.00	<0.000127	118	10 - 173	7	20
Benzo(g,h,i)perylene		1,2,3,4,5	6.17	mg/L	1	8.00	<0.000175	77	10.7 - 128	4	20

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

Surrogate			LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Nitrobenzene-d5	Qsr	Qsr	0.0369	0.0454	mg/L	1	8.00	0	0	10 - 121
2-Fluorobiphenyl			5.30	5.50	mg/L	1	8.00	66	69	20.5 - 120
Terphenyl-d14			5.04	5.26	mg/L	1	8.00	63	66	26.4 - 120

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 379126

QC Batch: 117232 | Date Analyzed: 2014-11-15 | Analyzed By: JS
Prep Batch: 99119 | QC Preparation: 2014-11-15 | Prepared By: JS

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1,2,3,4,5	0.0957	mg/L	1	0.100	<0.000303	96	70 - 130
Toluene		1,2,3,4,5	0.0956	mg/L	1	0.100	<0.000303	96	70 - 130
Ethylbenzene		1,2,3,4,5	0.0949	mg/L	1	0.100	<0.000266	95	70 - 130
Xylene		1,2,3,4,5	0.290	mg/L	1	0.300	<0.000265	97	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		1,2,3,4,5	0.0997	mg/L	1	0.100	<0.000303	100	70 - 130	4	20
Toluene		1,2,3,4,5	0.0995	mg/L	1	0.100	<0.000303	100	70 - 130	4	20
Ethylbenzene		1,2,3,4,5	0.0986	mg/L	1	0.100	<0.000266	99	70 - 130	4	20
Xylene		1,2,3,4,5	0.302	mg/L	1	0.300	<0.000265	101	70 - 130	4	20

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

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	5	0.0959	0.0970	mg/L	1	0.1	96	97	70 - 130
4-Bromofluorobenzene (4-BFB)	5	0.0939	0.0949	mg/L	1	0.1	94	95	70 - 130

Matrix Spike (MS-1) Spiked Sample: 379209

QC Batch: 117233 | Date Analyzed: 2014-11-15 | Analyzed By: JS
Prep Batch: 99120 | QC Preparation: 2014-11-15 | Prepared By: JS

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1,2,3,4,5	0.0936	mg/L	1	0.100	0.001	93	70 - 130
Toluene		1,2,3,4,5	0.0949	mg/L	1	0.100	0.0022	93	70 - 130
Ethylbenzene		1,2,3,4,5	0.0912	mg/L	1	0.100	<0.000266	91	70 - 130
Xylene		1,2,3,4,5	0.281	mg/L	1	0.300	0.0024	93	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		1,2,3,4,5	0.0967	mg/L	1	0.100	0.001	96	70 - 130	3	20
Toluene		1,2,3,4,5	0.101	mg/L	1	0.100	0.0022	99	70 - 130	6	20
Ethylbenzene		1,2,3,4,5	0.0974	mg/L	1	0.100	<0.000266	97	70 - 130	7	20
Xylene		1,2,3,4,5	0.300	mg/L	1	0.300	0.0024	99	70 - 130	6	20

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

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	5	0.0950	0.0953	mg/L	1	0.1	95	95	70 - 130
4-Bromofluorobenzene (4-BFB)	5	0.0926	0.0922	mg/L	1	0.1	93	92	70 - 130

Matrix Spike (MS-1) Spiked Sample: 379419

QC Batch: 117309 | Date Analyzed: 2014-11-18 | Analyzed By: JS
Prep Batch: 99184 | QC Preparation: 2014-11-18 | Prepared By: JS

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1,2,3,4,5	0.0972	mg/L	1	0.100	0.0044	93	70 - 130
Toluene		1,2,3,4,5	0.0943	mg/L	1	0.100	<0.000303	94	70 - 130
Ethylbenzene		1,2,3,4,5	0.0936	mg/L	1	0.100	0.0003	93	70 - 130
Xylene		1,2,3,4,5	0.287	mg/L	1	0.300	0.0023	95	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		1,2,3,4,5	0.100	mg/L	1	0.100	0.0044	96	70 - 130	3	20
Toluene		1,2,3,4,5	0.0982	mg/L	1	0.100	<0.000303	98	70 - 130	4	20
Ethylbenzene		1,2,3,4,5	0.0978	mg/L	1	0.100	0.0003	98	70 - 130	4	20
Xylene		1,2,3,4,5	0.300	mg/L	1	0.300	0.0023	99	70 - 130	4	20

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

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	5	0.0958	0.0969	mg/L	1	0.1	96	97	70 - 130
4-Bromofluorobenzene (4-BFB)	5	0.0899	0.0931	mg/L	1	0.1	90	93	70 - 130

Calibration Standards

Standard (CCV-2)

QC Batch: 117232 | Date Analyzed: 2014-11-15 | 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	0.0978	98	80 - 120	2014-11-15
Toluene		1,2,3,4,5	mg/L	0.100	0.0977	98	80 - 120	2014-11-15
Ethylbenzene		1,2,3,4,5	mg/L	0.100	0.0964	96	80 - 120	2014-11-15
Xylene		1,2,3,4,5	mg/L	0.300	0.295	98	80 - 120	2014-11-15

Standard (CCV-3)

QC Batch: 117232 | Date Analyzed: 2014-11-15 | 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	0.0979	98	80 - 120	2014-11-15
Toluene		1,2,3,4,5	mg/L	0.100	0.0972	97	80 - 120	2014-11-15
Ethylbenzene		1,2,3,4,5	mg/L	0.100	0.0960	96	80 - 120	2014-11-15
Xylene		1,2,3,4,5	mg/L	0.300	0.293	98	80 - 120	2014-11-15

Standard (CCV-1)

QC Batch: 117233 | Date Analyzed: 2014-11-15 | 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	0.0939	94	80 - 120	2014-11-15
Toluene		1,2,3,4,5	mg/L	0.100	0.0935	94	80 - 120	2014-11-15
Ethylbenzene		1,2,3,4,5	mg/L	0.100	0.0928	93	80 - 120	2014-11-15
Xylene		1,2,3,4,5	mg/L	0.300	0.284	95	80 - 120	2014-11-15

Standard (CCV-2)

QC Batch: 117233 | Date Analyzed: 2014-11-15 | 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	0.0982	98	80 - 120	2014-11-15
Toluene		1,2,3,4,5	mg/L	0.100	0.0979	98	80 - 120	2014-11-15
Ethylbenzene		1,2,3,4,5	mg/L	0.100	0.0966	97	80 - 120	2014-11-15
Xylene		1,2,3,4,5	mg/L	0.300	0.294	98	80 - 120	2014-11-15

Standard (CCV-1)

QC Batch: 117309 | Date Analyzed: 2014-11-18 | 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	0.0953	95	80 - 120	2014-11-18
Toluene		1,2,3,4,5	mg/L	0.100	0.0980	98	80 - 120	2014-11-18
Ethylbenzene		1,2,3,4,5	mg/L	0.100	0.0972	97	80 - 120	2014-11-18
Xylene		1,2,3,4,5	mg/L	0.300	0.297	99	80 - 120	2014-11-18

Standard (CCV-2)

QC Batch: 117309 | Date Analyzed: 2014-11-18 | 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	0.0937	94	80 - 120	2014-11-18
Toluene		1,2,3,4,5	mg/L	0.100	0.0937	94	80 - 120	2014-11-18
Ethylbenzene		1,2,3,4,5	mg/L	0.100	0.0935	94	80 - 120	2014-11-18
Xylene		1,2,3,4,5	mg/L	0.300	0.286	95	80 - 120	2014-11-18

Standard (CCV-2)

QC Batch: 117951 | Date Analyzed: 2014-12-12 | Analyzed By: MN

Param		Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene			1,2,3,4,5	mg/L	60.0	68.5	114	80 - 120	2014-12-12
2-Methylnaphthalene			1,2,3,4,5	mg/L	60.0	66.4	111	80 - 120	2014-12-12
1-Methylnaphthalene	Qc	Qc	1	mg/L	60.0	136	227	80 - 120	2014-12-12
Acenaphthylene	Qc	Qc	1,2,3,4,5	mg/L	60.0	79.1	132	80 - 120	2014-12-12
Acenaphthene			1,2,3,4,5	mg/L	60.0	68.1	114	80 - 120	2014-12-12
Dibenzofuran	Qc	Qc	1,2,3,4,5	mg/L	60.0	72.9	122	80 - 120	2014-12-12
Fluorene			1,2,3,4,5	mg/L	60.0	65.6	109	80 - 120	2014-12-12
Anthracene			1,2,3,4,5	mg/L	60.0	55.2	92	80 - 120	2014-12-12
Phenanthrene			1,2,3,4,5	mg/L	60.0	68.8	115	80 - 120	2014-12-12
Fluoranthene			1,2,3,4,5	mg/L	60.0	66.6	111	80 - 120	2014-12-12
Pyrene	Qc	Qc	1,2,3,4,5	mg/L	60.0	36.6	61	80 - 120	2014-12-12
Benzo(a)anthracene			1,2,3,4,5	mg/L	60.0	63.0	105	80 - 120	2014-12-12
Chrysene			1,2,3,4,5	mg/L	60.0	69.6	116	80 - 120	2014-12-12
Benzo(b)fluoranthene			1,2,3,4,5	mg/L	60.0	69.6	116	80 - 120	2014-12-12
Benzo(k)fluoranthene			1,2,3,4,5	mg/L	60.0	61.7	103	80 - 120	2014-12-12
Benzo(a)pyrene			1,2,3,4,5	mg/L	60.0	68.8	115	80 - 120	2014-12-12
Indeno(1,2,3-cd)pyrene	Qc	Qc	1,2,3,4,5	mg/L	60.0	85.5	142	80 - 120	2014-12-12
Dibenzo(a,h)anthracene	Qc	Qc	1,2,3,4,5	mg/L	60.0	30.4	51	80 - 120	2014-12-12
Benzo(g,h,i)perylene			1,2,3,4,5	mg/L	60.0	70.7	118	80 - 120	2014-12-12

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5			62.3	mg/L	1	60.0	104	-
2-Fluorobiphenyl			70.3	mg/L	1	60.0	117	-
Terphenyl-d14			68.4	mg/L	1	60.0	114	-

Standard (CCV-3)

QC Batch: 117951 | Date Analyzed: 2014-12-12 | Analyzed By: MN

Param		Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene			1,2,3,4,5	mg/L	60.0	59.8	100	80 - 120	2014-12-12
2-Methylnaphthalene			1,2,3,4,5	mg/L	60.0	53.5	89	80 - 120	2014-12-12
1-Methylnaphthalene			1	mg/L	60.0	54.2	90	80 - 120	2014-12-12
Acenaphthylene			1,2,3,4,5	mg/L	60.0	57.9	96	80 - 120	2014-12-12
Acenaphthene			1,2,3,4,5	mg/L	60.0	61.5	102	80 - 120	2014-12-12
Dibenzofuran			1,2,3,4,5	mg/L	60.0	60.1	100	80 - 120	2014-12-12
Fluorene			1,2,3,4,5	mg/L	60.0	59.2	99	80 - 120	2014-12-12
Anthracene	Qc	Qc	1,2,3,4,5	mg/L	60.0	106	177	80 - 120	2014-12-12
Phenanthrene			1,2,3,4,5	mg/L	60.0	60.4	101	80 - 120	2014-12-12

continued . . .

standard continued . . .

Param		Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoranthene			1,2,3,4,5	mg/L	60.0	64.3	107	80 - 120	2014-12-12
Pyrene	Qc	Qc	1,2,3,4,5	mg/L	60.0	35.5	59	80 - 120	2014-12-12
Benzo(a)anthracene			1,2,3,4,5	mg/L	60.0	56.4	94	80 - 120	2014-12-12
Chrysene			1,2,3,4,5	mg/L	60.0	56.8	95	80 - 120	2014-12-12
Benzo(b)fluoranthene			1,2,3,4,5	mg/L	60.0	50.0	83	80 - 120	2014-12-12
Benzo(k)fluoranthene			1,2,3,4,5	mg/L	60.0	55.4	92	80 - 120	2014-12-12
Benzo(a)pyrene			1,2,3,4,5	mg/L	60.0	54.9	92	80 - 120	2014-12-12
Indeno(1,2,3-cd)pyrene			1,2,3,4,5	mg/L	60.0	66.4	111	80 - 120	2014-12-12
Dibenzo(a,h)anthracene			1,2,3,4,5	mg/L	60.0	59.6	99	80 - 120	2014-12-12
Benzo(g,h,i)perylene			1,2,3,4,5	mg/L	60.0	53.0	88	80 - 120	2014-12-12

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5			55.6	mg/L	1	60.0	93	-
2-Fluorobiphenyl			56.3	mg/L	1	60.0	94	-
Terphenyl-d14			44.1	mg/L	1	60.0	74	-

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	L14-93	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-14-10	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 then 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.

F	Description
U	The analyte is not detected above the SDL

Result Comments

1 Sample dilution due to surfactants.

Attachments

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

LAB Order ID # 14111224

Page _____ of _____

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

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

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

Brandon & Clark
3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

Company Name: Nova
Phone #: 432) 520-7720
Address: (Street, City, Zip) 2057 Commerce Midland
Fax #:
Contact Person: Curt Stanley
E-mail:
Invoice to: (If different from above) Plains
Project #: 2002-10286
Project Name: 34 Junction Lea
Project Location (including state):
Sampler Signature: Manuel Hana

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC							Turn Around Time if different from standard	Hold
222 223	mw 4	3	VOA	X				X				X		11/11/14	1200		X																										
224	mw 8														1230		X																										
225	mw 9														1245		X																										
226	mw 12														1301																												
~~227~~	mw 12														1301					X																							
~~228~~	mw 11 A														1315		X																										
~~229~~	mw 11 A														1315					X																							
~~229 230~~	226 mw 6														1331		X																										
~~230 231~~	229 mw 5														1340		X																										
~~231 232~~	230 mw 10														1352		X																										
~~232 233~~	231 mw 2														1404		X																										

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Manuel Hana	Nova	11/12/14	0809		TA 11	11/12/14	8:09	INST 10.1 °C OBS 3.5 °C COR 3.4 °C
	TA 11	11/12/14	1530					INST ____ °C OBS ____ °C COR ____ °C
				BC	TA	11/13/14	830	INST IR3 °C OBS 2.8 °C COR 2.7 °C

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

REMARKS: Rush 24 hr

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

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

Carrier # Carrier / US ZR844399

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LAB Order ID # 14111224

Page _____ of _____

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
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3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

Company Name: Nova **Phone #:** 432) 520 7720

Address: (Street, City, Zip) 2057 Commerce Midland Tx **Fax #:**

Contact Person: Curt Stanley **E-mail:**

Invoice to: (If different from above) Plains

Project #: 2002-10286 **Project Name:** 34 Junction Lea

Project Location (including state): **Sampler Signature:** Manuel Hernandez

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	Na, Ca, Mg, K, TDS, EC							Turn Around Time if different from standard	Hold
~~233~~ ~~234~~ 232	mw 3	3	VOA	X				X				X		11/11/14	1417		X																									
~~235~~	mw 3	↓	↓	↓				↓				↓			1417					X																						
~~234~~ ~~234~~ 233	mw 1														1426		X																									
~~237~~	mw 1														1426					X																						
~~237~~ 234	mw 7														1437		X																									
~~234~~	mw 7	↓	↓	↓				↓				↓		↓	1437					X																						

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Manuel Hernandez	Nova	11/13/14	0809	[illegible]	TA	11/12/14	8:09	INST Hand OBS 3.5 °C COR 3.4 °C
[illegible]	TA	11/12/14	15:30					INST ____ OBS ____ °C COR ____ °C
				BC	TA	11-13-14	8:30	INST IR 3 OBS 2.8 °C COR 2.7 °C

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

REMARKS:

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

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

Carrier # Courier 5278443999

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Release Notification and Corrective Action
NMOCD Form C-141

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised March 17, 1999

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company **EOTT Energy LLC**	Contact **Frank Hernandez**
Address PO Box 1660 5805 East Highway 80 Midland, Texas 79702	Telephone No. 915.638.3799
Facility Name Juction JCT 34 Line to Lea #2002-10286	Facility Type 10" Steel Pipeline

Surface Owner	Mineral Owner	Lease No.
Deck Estate		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea Lat. 32 32' 20.828"N Lon. 103 15' 38.480"W
21	21	T20S	R37E					

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 300 bbls barrels	Volume Recovered 190 bbls barrels
Source of Release 8" Steel Pipeline	Date and Hour of Occurrence 11-06-02 @ 11:00 AM	Date and Hour of Discovery 11-6-02 @ 4:00 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Paul Sheeley	
By Whom? Pat McCasland, EPI	Date and Hour 11-07-02 @ 6:30 AM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
Pipe repair clamp installed.

Describe Area Affected and Cleanup Action Taken.*
Site will be delineated and a remediation plan developed. Remedial Goals: TPH 8015m = 100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.

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

Signature: Frank Hernandez	**OIL CONSERVATION DIVISION** Approved by District Supervisor:	
Printed Name: Frank Hernandez		
Title: District Environmental Supervisor	Approval Date:	Expiration Date:
Date: 9-10-02 Phone: 915.638.3799	Conditions of Approval:	Attached ☐

* Attach Additional Sheets If Necessary