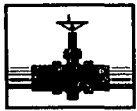


AP - 96

STAGE 1 & 2 WORKPLANS

DATE:

8-18-08



**PLAINS
MARKETING, L. P.**

RECEIVED

2008 AUG 22 PM 2 55

AP-96

August 18, 2008

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

Re: Plains Marketing, L.P. Lovington Gathering WTI Release Site
Stage 1 and Stage 2 Abatement Plan
NMOCD Reference # 1RP-838
UL-H (SE¼ of the NE¼) of Section 6, T17S, R37E
Lea County, New Mexico

Dear Mr. Hansen:

Plains Marketing, L.P. (Plains), is pleased to submit the attached Stage 1 and Stage 2 Abatement Plan, dated August 2008, for the Lovington Gathering WTI release site located in Section 6 of Township 17 South, Range 37 East of Lea County, New Mexico. This Stage 1 and Stage 2 Abatement Plan details activities conducted to date and anticipated future activities to be conducted for the abatement of the site.

If you have any questions or require further information, please contact me at (575) 441-0965.

Sincerely,

Camille Bryant
Remediation Coordinator
Plains Marketing, L. P.

Enclosure

CC: Larry Johnson, NMOCD Hobbs Office

AP-96

Basin Environmental Service Technologies,
LLC

P. O. Box 301
Lovington, New Mexico 88260
cstanley@basinenv.com
Office: (505) 396-2378 Fax: (505) 396-1429



Stage 1 and Stage 2 Abatement Plan

PLAINS MARKETING, L.P. (231735)
Lovington Gathering WTI
Lea County, New Mexico
Plains SRS # 2006-142
UNIT H (SE/NE), Section 6, Township 17 South, Range 37 East
Latitude 32°, 51', 56.0" North, Longitude 103°, 17', 07.2" West
NMOCD Reference # 1RP-838

2008 AUG 22 PM 2 55

RECEIVED

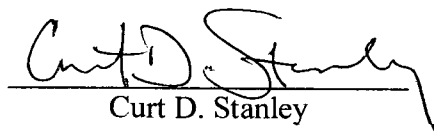
Prepared For:

Plains Marketing, L.P.
333 Clay Street
Suite 1600
Houston, Texas 77002

Prepared By:

Basin Environmental Service Technologies, LLC
P. O. Box 301
Lovington, New Mexico 88260

August 2008


Curt D. Stanley

Basin Environmental Service Technologies, LLC

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1.0 INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Plains Marketing, L.P., (Plains), has prepared this Stage 1 and Stage 2 Abatement Plan. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. The contents of this report are intended to fulfill requirements promulgated in 19 New Mexico Administrative Code (NMAC) 15.A.19.E (3) and 19.E (4) and 20.6.2.4106 (C) and (D) and NMOCD guidance document *Guidelines for Remediation of Leaks, Spills, and Releases*, August 1993.

The Lovington Gathering WTI release site is located in Unit H (SE/NE), Section 6, Township 17 South, Range 37 East, in Lea County, New Mexico. A topographic Site Location Map and a Site Map are provided as Figures 1 and 2, respectively. The site latitude is 32° 51' 56.0" North and the site longitude is 103° 17' 07.2" West. The site is located in a pipeline right-of-way, in a pasture utilized for cattle grazing. On April 21, 2006, Basin responded to the pipeline release on behalf of Plains and during initial response activities the crude oil release was contained and clamped under the direction of Plains operations personnel. The excavated soil was stockpiled on a 6-mil poly-liner adjacent to the excavation, pending final disposition. The release occurred as a result of internal pipeline corrosion. The Lovington Gathering WTI right-of-way is located on property owned by Mr. Robert Rice.

The initial visible surface stain measured approximately 30 feet long by 27 feet wide. An estimated twelve (12) barrels of crude oil was released from the Lovington Gathering WTI pipeline and eight (8) barrels was recovered during initial response activities, resulting in a net loss of 4 barrels of crude oil. The Release Notification and Corrective Action (Form C-141) is provided as Appendix C.

2.0 SUMMARY OF FIELD ACTIVITIES

On April 21, 2006, Basin responded to the Lovington Gathering Pipeline to contain and clamp the crude oil pipeline. These activities were under the direction of Plains operations personnel. During initial response activities, an area approximately 30 feet long by 27 feet wide and 5 to 6 feet in depth was excavated. The excavated soil was placed on a 6-mil poly liner adjacent to the excavation pending final disposition. Approximately 200 cubic yards (cy) of impacted soil was stockpiled adjacent to the excavation during the initial response activities.

On April 24, 2006, an initial site assessment was conducted to evaluate the site status. A total of eleven (11) soil samples were collected from the sidewalls and floor of the initial excavation. The soil samples were field screened using a Photo Ionization Detector (PID). The results of the field screening indicated Volatile Organic Compounds (VOC's) most likely exceeded the NMOCD regulatory guidelines of 100 parts per million (ppm).

On April 28, 2006, five (5) delineation trenches were excavated at the release point, west cross gradient, east cross gradient and in down gradient positions with regard to the

release point, to evaluate the extent of crude oil impact. Soil samples were collected and field screened using a PID, the field screening results indicated VOC's exceeded the NMOCD regulatory standard in soil samples collected from the release point and from the east cross gradient delineation trenches and were below the NMOCD regulatory standard in the three (3) remaining delineation trenches. Based on the results of the field screening activities, delineation of the site utilizing soil borings appeared to be warranted.

On July 18, 2006, vertical and horizontal delineation of the crude oil impacted site was commenced using an air rotary drilling rig. A total of eleven (11) soil borings were advanced at the site, including the release point, up gradient, down gradient and cross gradient positions with regard to the release point to evaluate the full extent of crude oil impact. The eleven (11) soil borings were advanced to depths ranging from approximately 30 to 75 feet below ground surface (bgs). Soil samples were collected at five (5) foot drilling intervals. A total of 74 soil samples were submitted for laboratory analysis and were analyzed for constituent concentrations of benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO). The laboratory analytical results indicated constituent concentrations of BTEX were not detected above the laboratory method detection limit (MDL) of 0.025 mg/Kg for 47 soil samples while the remaining 27 soil samples exhibited detectable concentrations of BTEX below NMOCD regulatory standard. Laboratory analytical results indicated constituent concentrations of TPH-GRO/DRO were not detected above the MDL of 10 mg/Kg for 23 soil samples while four (4) soils samples exhibited detectable TPH-GRO/DRO concentrations below the NMOCD regulatory standard of 100 mg/Kg. Laboratory analytical results indicated the remaining 47 soil samples exhibited TPH-GRO/DRO concentrations exceeding the NMOCD regulatory standard of 100 mg/Kg. A summary of Concentrations of BTEX, TPH and Chlorides is provided as Table 1. Soil Boring and Monitor Well Logs are provided as Appendix A and laboratory analytical results are provided as Appendix B.

On September 11-12, 2006, three (3) groundwater monitor wells (MW-1, MW-2 and MW-3) were installed to evaluate the potential hydrocarbon impact to groundwater. Monitor well MW-1 was located up gradient of the release point and monitor wells MW-2 and MW-3 were located down gradient of the release point. The three (3) groundwater monitor wells were installed to a total depth of 88 bgs. Soil samples were collected at five (5) foot drilling intervals and field screened using a PID. Based on the results of field screening, thirty (30) soil samples were submitted for laboratory analysis of constituent concentrations of BTEX and TPH-GRO/DRO. The laboratory analytical results indicated constituent concentrations of BTEX were not detected above the MDL of 0.025 mg/Kg for 29 of the soil samples while the remaining soil sample exhibited detectable concentrations of BTEX below the NMOCD regulatory standard. The laboratory analytical results indicated constituent concentrations of TPH-GRO/DRO were not detected above the MDL of 10 mg/Kg for 27 soil samples. The remaining three (3) soil samples reported one (1) soil sample was below the NMOCD regulatory standard of 100 mg/Kg and two (2) soil samples exceeded the NMOCD regulatory standard. Soil samples MW-3 55' and MW-3 75' exhibited TPH-GRO/DRO concentrations of 2,076 mg/Kg and 121 mg/Kg, respectively.

On October 4-5, 2006, the three (3) groundwater monitor wells (MW-1, MW-2 and MW-3) were developed, purged and sampled. The groundwater samples were analyzed for constituent concentrations of BTEX. Laboratory results indicated constituent concentrations of BTEX were not detected above the MDL of 0.002 mg/Kg for monitor well MW-1; however, monitor wells MW-2 and MW-3 exhibited detectable concentrations of BTEX above the NMOCD regulatory standard.

On November 22 and 27-28, 2006, four (4) additional groundwater monitor wells (MW-4 through MW-7) were installed and consisted of two (2) monitor wells in cross gradient positions and two (2) monitor wells in down gradient positions to further evaluate the impact to groundwater. The four (4) additional groundwater monitor wells were installed to a depth of approximately 90 feet bgs and soil samples were collected at five (5) foot drilling intervals. Based on field screening using a PID, a total of 40 soil samples were submitted for analysis of constituent concentrations of BTEX and TPH-GRO/DRO. The laboratory analytical results indicated constituent concentrations of BTEX and TPH-GRO/DRO were not detected above the respective MDL for the 40 submitted soil samples.

A review of the existing data for this site indicates the following:

- The soil column consists of limited topsoil at the surface to approximately six (6) inches to four (4) feet below ground surface (bgs), underlain by a caliche layer ranging from six (6) to twenty (20) feet in thickness, underlain by white to brown, very fine grained, well sorted sand.
- Groundwater at the site occurs at depths varying between approximately 74 to 76 feet bgs.
- The groundwater gradient, as measured during quarterly groundwater monitoring events, is approximately 0.0014 feet / foot to the south southeast (4th quarter 2007 groundwater elevation data).
- Dissolved phase hydrocarbon constituents are present in the groundwater at concentrations exceeding the NMOCD regulatory standard in monitor wells MW-2, MW-3 and MW-7.
- Soil impacted above the NMOCD regulatory standard for TPH GRO/DRO is limited to soil samples collected from soil borings SB-2 (five foot bgs soil sample only), SB-3, SB-4, SB-5, SB-6, and SB-10. Monitor well MW-3 exhibited an isolated TPH concentration above the NMOCD regulatory standard in the vadose zone (soil sample MW-3 55'). Soil samples collected and analyzed during the installation of monitor wells MW-3 and MW-8 indicated TPH concentrations exceeding the NMOCD regulatory standard (121 mg/Kg and 101 mg/Kg, respectively) were present in the capillary fringe zone of these monitor wells.

3.0 GEOLOGY / HYDROGEOLOGY

3.1 Area Geology / Hydrogeology

The site is located approximately seven (7) miles south of the City of Lovington, New Mexico. This location places the site in the Southern High Plains physiographic feature. The average surface elevation ranges from 3,500 to 4,400 feet above mean sea level with the average surface topography sloping to the south and southeast at approximately ten (10) to fifteen (15) feet per mile. The groundwater gradient in the region appears to reflect the topography with a similar slope to the south and southeast with some local variations.

The site is located on the Kimbrough – Lea Complex soils within the Kimbrough soil series. This soil complex consists of Kimbrough gravelly loam, Lea loam and inclusions of Stegall and Arvana soils, in some areas Kimbrough and Lea soils are equally distributed. The generally dominant Kimbrough soil consists of nearly level and gently sloping, gravelly and loamy soils that are very shallow to moderately deep over indurated caliche. The soil permeability is moderate and runoff is slow to medium. The soil water intake is moderate and the available water holding capacity is one (1) to two (2) inches. Soil erosion is a slight hazard in areas dominated by this soil type. This soil type is too shallow to be suitable for crops and is generally utilized for range and wildlife. This soil complex is a source of crushed caliche for the construction industry.

Data collected by the United States Weather Bureau indicates that the average annual precipitation in the site vicinity is approximately twelve (12) to fifteen (15) inches per annum. This rainfall generally occurs primarily as thunderstorm events between the months of June and October. Infiltration and evaporation rates are generally high resulting in limited surface flow from these events.

3.2 Site Geology/Hydrology

The site surface consists of a light brown, loamy topsoil ranging from six (6) inches to four (4) feet in thickness (topsoil was reportedly absent at the monitor well MW-8 location). Typically, underlying this surface unit is a white caliche layer. The caliche layer exhibited varying thicknesses ranging from six (6) to twenty (20) feet. The caliche layer was reportedly encountered from twenty (20) to thirty (30) feet bgs at the monitor well MW-8 location. Typically, underlying this caliche layer, a white to brown, very fine grained, well sorted sand was detected to total depth of the monitor wells. North – South and West – East stratigraphic cross-sections are included as Figures 3 and 4, respectively. A cross-section index is included on Figure 2. Please reference Appendix A for soil boring and monitor well completion logs.

3.3 New Mexico Oil Conservation Division Soil Ranking Criteria

As described in Section 3A of the *Guidelines for Remediation of Leaks, Spills and Releases* (NMOCD, 1993), the following characteristics are used to determine the site soil ranking criteria, which influences the site-specific cleanup standards applicable for this site. The depth to groundwater on-site is approximately 75 feet bgs. Onsite drilling activities indicate the soil is impacted to groundwater in the vicinity of the release point, the distance between groundwater and the deepest extent of impact results in 20 points being assigned to the Lovington Gathering WTI release site as a result of this criterion.

The water well database, maintained by the New Mexico Office of the State Engineer (NMOSE), was accessed to determine the location and type of nearby registered water wells in the area. The database indicated there is one (1) water well less than 1000 feet from the release, resulting in 20 points being assigned to this site as a result of this criterion.

There are no surface water bodies located within 1,000 feet of the site. Based on the NMOCD ranking system no points will be assigned to the site as a result of the criterion. The Guidelines indicate the Lovington Gathering WTI release site has a ranking score of 40. Based on this score, the soil remediation levels for a site with a ranking score of >19 points are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 100 mg/Kg (ppm)

3.4 Distribution of Hydrocarbons in the Unsaturated Zone

The initial visible surface stain measured approximately 30 feet long by 27 feet wide. Following the initial excavation activities, field screening using a PID indicated elevated concentrations of Volatile Organic Compounds (VOC's) remained in the sidewalls and floor of the excavation. Approximately 200 cy of impacted soil was excavated and stockpiled on a 6-mil poly-liner adjacent to the excavation, pending final disposition.

On April 24, 2006, eleven (11) soil samples were collected from the sidewalls and floor of the excavation ranging in depth from approximately one (1) to four (4) feet bgs. The soil samples were field screened using a PID, the results of the field screening indicated VOC's exceeded the NMOCD regulatory standard of 100 ppm.

On April 28, 2006, five (5) delineation trenches were excavated at the release point, west cross gradient, east cross gradient and down gradient positions with regard to the release point, to evaluate the extent of crude oil impact. Soil samples were collected at depths ranging from approximately 5 to 19 feet bgs and field screened with a PID. The PID results indicated VOC's exceeded the NMOCD regulatory standard at the release point and east cross gradient delineation trenches and were below the NMOCD regulatory standard for the remaining three (3) delineation trenches.

On July 18-24, 2006, eleven (11) soil borings were advanced utilizing an air rotary drill rig operated by Straub Corporation, Stanton, Texas, to evaluate the vertical and horizontal extent of crude oil impact at the up gradient, down gradient and cross gradient positions of the excavation. The eleven (11) soil borings were advanced to depths ranging from approximately 30 to 75 feet bgs. Subsurface soil samples were collected at 5 foot drilling intervals and field screened with a PID. No visual observations of free phase hydrocarbons were encountered during the advancement of the soil borings. Selected soil samples were analyzed for constituent concentrations of BTEX and TPH-GRO/DRO.

Soil Boring SB-1, as depicted on the Site Map, (Figure 2), was advanced at surface level in the up gradient position approximately six (6) feet north of the north sidewall of the excavation. The soil boring was advanced to a depth of approximately 30 feet bgs. Soil samples collected at 5, 10, 20 and 30 feet bgs sample depths were submitted for laboratory analysis. Laboratory analytical results indicated BTEX and TPH-GRO/DRO constituent concentrations were not detected above the MDL of 10 mg/Kg BTEX and 100 mg/Kg TPH, respectively for the four (4) soil samples.

Soil Boring SB-2 was advanced at surface level in the west cross gradient position approximately six (6) feet from the west ramp of the excavation. The soil boring was advanced to a depth of approximately 30 feet bgs. Soil samples collected at 5, 10, 20 and 30 feet bgs sample depths were submitted for laboratory analysis. Laboratory analytical results indicated BTEX constituent concentrations were not detected above the MDL for the 10, 20 and 30 feet bgs soil samples. However, the 5 feet bgs soil sample exhibited detectable concentrations of BTEX below NMOCD regulatory standard. Laboratory analytical results indicated constituent concentrations of TPH-GRO/DRO were not detected above the MDL for the 10, 20 and 30 feet bgs soil samples. However, laboratory results indicated the 5 feet bgs soil sample exceeded the NMOCD regulatory TPH standard at 442 mg/Kg.

Soil Boring SB-3 was advanced at surface level at the release point approximately six (6) feet south of the excavation. The soil boring was advanced to a depth of approximately 75 feet bgs. Soil samples collected at 5, 10, 15, 20, 25, 35, 45, 55, 65 and 75 feet bgs sample depths were submitted for laboratory analysis. Laboratory analytical results indicated constituent concentrations BTEX were not detected above the MDL for the 5, 25, 35, 45, 55 and 65 feet bgs soil samples and the 10, 15, 20, and 75 feet bgs soil samples exhibited detectable BTEX concentrations below the NMOCD regulatory standard. Laboratory analytical results indicated constituent concentrations of TPH-GRO/DRO exceeded the NMOCD regulatory standard for the 5, 10, 15, 20, 35, 45, 55 and 65 feet bgs soil samples at 1,060 mg/Kg, 2,429 mg/Kg, 2,121 mg/Kg, 2,165 mg/Kg, 170 mg/Kg, 410 mg/Kg, 805 mg/Kg and 556 mg/Kg, respectively. Laboratory analytical results indicated the 25 and 75 feet bgs soil samples exhibited detectable concentrations of TPH-GRO/DRO, however, the two (2) soil samples were below NMOCD regulatory standard at 77 mg/Kg and 41 mg/Kg, respectively.

Soil Boring SB-4 was advanced at surface level in the east cross gradient position approximately six (6) feet from the excavation. The soil boring was advanced to a depth

of approximately 75 feet bgs. Soil samples collected at 5, 10, 15, 20, 25, 35, 45, 55, 65 and 75 feet bgs sample depths were submitted for laboratory analysis. Laboratory analytical results indicated constituent concentrations of BTEX were not detected above the MDL for the 5, 35, 45, 55, 65 and 75 feet bgs soil samples and the 10, 15, 20 and 25 feet bgs soil samples exhibited detectable BTEX concentrations below the NMOCD regulatory standard. Laboratory analytical results indicated constituent concentrations of TPH-GRO/DRO exceeded NMOCD regulatory standards for the 5, 10, 15, 20, 25, 35, 45, 55, 65 and 75 feet bgs soils samples at 271 mg/Kg, 935 mg/Kg, 1,489 mg/Kg, 1,125 mg/Kg, 1,558 mg/Kg, 1,090 mg/Kg, 1,010 mg/Kg, 1,722 mg/Kg, 1,255 mg/Kg and 281 mg/Kg, respectively.

Soil Boring SB-5 was advanced at surface level in the east cross gradient position approximately 30 feet from the excavation. The soil boring was advanced to a depth of approximately 75 feet bgs. Soil samples collected at 5, 10, 15, 20, 25, 35, 45, 55, 65 and 75 feet bgs sample depths were submitted for laboratory analysis. Laboratory analytical results indicated constituent concentrations of BTEX were not detected above the MDL for the 5, 45, 65 and 75 feet bgs soil samples and the 10, 15, 20, 25, 35 and 55 feet bgs soil samples exhibited detectable BTEX concentrations below NMOCD regulatory standards. Laboratory analytical results indicated constituent concentrations of TPH-GRO/DRO exceeded the NMOCD regulatory standard for the 5, 10, 15, 20, 25, 35, 45, 55, and 65 feet bgs soil samples at 682 mg/Kg, 2,415 mg/Kg, 3,027 mg/Kg, 2,491 mg/Kg, 1,932 mg/Kg, 1,257 mg/Kg, 1,541 mg/Kg, 2,086 mg/Kg and 727 mg/Kg, respectively. Laboratory analytical results indicated the 75 feet bgs soil sample exhibited detectable concentrations of TPH-GRO/DRO below the NMOCD regulatory standard at 99 mg/Kg.

Soil Boring SB-6 was advanced at surface level in the east cross gradient position approximately 60 feet from the excavation. The soil boring was advanced to a depth of approximately 75 feet bgs. Soil samples collected at 5, 10, 15, 20, 25, 35, 45, 55, 65 and 75 feet bgs sample depths were submitted for laboratory analysis. Laboratory analytical results indicated constituent concentrations of BTEX were not detected above the MDL for the 10, 20, 25, 35, 45, 55, 65 and 75 feet bgs soil samples and the 5 and 15 feet bgs soil samples exhibited detectable BTEX concentrations below the NMOCD regulatory standard. Laboratory analytical results indicated constituent concentrations of TPH-GRO/DRO exceeded the NMOCD regulatory standard for the 5, 10, 15, 20, 25, 35, 45, 55, and 65 feet bgs soil samples at 1,540 mg/Kg, 2,507 mg/Kg, 1,443 mg/Kg, 949 mg/Kg, 714 mg/Kg, 194 mg/Kg, 649 mg/Kg, 1,316 mg/Kg and 811 mg/Kg, respectively. Laboratory analytical results indicated the 75 feet bgs soil sample exhibited detectable concentrations of TPH-GRO/DRO below the NMOCD regulatory standard at 16 mg/Kg.

Soil Boring SB-7 was advanced at surface level in the east cross gradient position approximately 85 feet from the excavation. The soil boring was advanced to a depth of approximately 30 feet bgs. Soil samples collected at 5, 10, 20 and 30 feet bgs sample depths were submitted for laboratory analysis. Laboratory analytical results indicated BTEX and TPH-GRO/DRO constituent concentrations were not detected above the respective MDL's for the four (4) soil samples.

Soil Boring SB-8 was advanced at surface level in the south down gradient position approximately 25 feet from the excavation. The soil boring was advanced to a depth of approximately 30 feet bgs. Soil samples collected at 5, 10, 20 and 30 feet bgs sample depths were submitted for laboratory analysis. Laboratory analytical results indicated BTEX and TPH-GRO/DRO constituent concentrations were not detected above the respective MDL's for the four (4) soil samples.

Soil Boring SB-9 was advanced at surface level in the northeast up gradient position approximately 75 feet from the excavation. The soil boring was advanced to a depth of approximately 30 feet bgs. Soil samples collected at 5, 10, 20 and 30 feet bgs sample depths were submitted for laboratory analysis. Laboratory results indicated BTEX and TPH-GRO/DRO constituent concentrations were not detected above the respective MDL's for the four (4) soil samples.

Soil Boring SB-10 was advanced at surface level in the southeast down gradient position approximately 70 feet from the excavation. The soil boring was advanced to a depth of approximately 75 feet bgs. Soil samples collected at 5, 10, 15, 20, 25, 35, 45, 55, 65 and 75 feet bgs sample depths were submitted for laboratory analysis. Laboratory analytical results indicated constituent concentrations of BTEX were not detected above the MDL for the 75 feet bgs soil sample and the 5, 10, 15, 20, 25, 35, 45, 55 and 65 feet bgs soil samples exhibited detectable BTEX concentrations below the NMOCD regulatory standard. Laboratory analytical results indicated constituent concentrations of TPH-GRO/DRO exceeded the NMOCD regulatory standard for the 5, 10, 15, 20, 25, 35, 45, 55, 65 and 75 feet bgs soil samples at 883 mg/Kg, 3,690 mg/Kg, 4,220 mg/Kg, 4,267 mg/Kg, 3,842 mg/Kg, 847 mg/Kg, 708 mg/Kg, 1,128 mg/Kg, 3,048 mg/Kg and 170 mg/Kg, respectively. Soil sample SB-10 20' was submitted for analysis of chloride concentrations utilizing method E 300, the analytical results indicated chlorides concentration were 73.9 mg/Kg in this soil sample.

Soil Boring 11 was advanced at surface level in the southeast down gradient position approximately 115 feet from the excavation. The soil boring was advanced to a depth of approximately 30 feet bgs. Soil samples collected at 5, 10, 20 and 30 feet bgs sample depths were submitted for laboratory analysis. Laboratory analytical results indicated BTEX and TPH-GRO/DRO constituent concentrations were not detected above the respective MDL's for the four (4) soil samples.

On October 11, 2006, monitor well MW-1 was installed in an up gradient position approximately 60 feet from the excavation utilizing an air rotary drill rig operated by Straub Corporation, Stanton, Texas, to evaluate the potential impact to the groundwater. Subsurface soil samples were collected at 5 foot drilling intervals and field screened with a PID. The selected soil samples were analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Soil samples collected at 5, 10, 15, 20, 25, 35, 45, 55, 65 and 75 feet bgs were submitted for laboratory analysis. Laboratory analytical results of the ten (10) selected subsurface soil samples indicated constituent concentrations of BTEX and TPH-GRO/DRO were not detected above the MDL's.

On October 11, 2006, monitor well MW-2 was installed in a down gradient position approximately 60 feet from the excavation. Soil samples collected at 5, 10, 15, 20, 25, 35, 45, 55, 65 and 75 feet bgs were submitted for laboratory analysis. Laboratory analytical results of the ten (10) selected subsurface soil samples indicated constituent concentrations of BTEX and TPH-GRO/DRO were not detected above the MDL's.

On October 12, 2006, monitor well MW-3 was installed in a down gradient position, approximately 115 feet from the excavation. Soil samples collected at 5, 10, 15, 20, 25, 35, 45, 55, 65 and 75 feet bgs were submitted for laboratory analysis. Laboratory results indicated constituent concentrations of BTEX were not detected above the MDL for the 5, 10, 15, 20, 25, 35, 45, 65 and 75 feet bgs soil samples and the 55 feet bgs soil sample exhibited detectable BTEX concentrations below the NMOCD regulatory standard. Laboratory analytical results indicated constituent concentrations of TPH-GRO/DRO were not detected above the MDL for the 5, 10, 15, 20, 25, 35 and 45 feet bgs soil samples. Laboratory analytical results indicated the 65 feet bgs soil sample exhibited detectable concentrations of TPH-GR/DRO below the NMOCD regulatory standard at 61 mg/Kg and the 55 and 75 feet bgs soil samples exceeded the NMOCD regulatory standard at 2,076 mg/Kg and 121 mg/Kg, respectively.

On November 22, 2006, monitor well MW-4 was installed in an up and cross gradient position approximately 120 feet west of the release point. Soil samples collected at 5, 10, 15, 20, 25, 35, 45, 55, 65 and 75 feet bgs were submitted for laboratory analysis. Laboratory analytical results of the ten (10) selected subsurface soil samples indicated constituent concentrations of BTEX and TPH-GRO/DRO were not detected above the MDL's.

On November 27, 2006, monitor well MW-5 was installed in an up and cross gradient position approximately 190 feet east of the release point. Soil samples collected at 5, 10, 15, 20, 25, 35, 45, 55, 65 and 75 feet bgs were submitted for laboratory analysis. Laboratory analytical results of the ten (10) selected subsurface soil samples indicated constituent concentrations of BTEX and TPH-GRO/DRO were not detected above the MDL's.

On November 27, 2006, monitor well MW-6 was installed in a down gradient position approximately 190 feet southeast of the release point. Soil samples collected at 5, 10, 15, 20, 25, 35, 45, 55, 65 and 75 feet bgs were submitted for laboratory analysis. Laboratory analytical results of the ten (10) selected subsurface soil samples indicated constituent concentrations of BTEX and TPH-GRO/DRO were not detected above the MDL's.

On November 28, 2006, monitor well MW-7 was installed in a down gradient position approximately 260 feet southeast of the release point. Soil samples collected at 5, 10, 15, 20, 25, 35, 45, 55, 65 and 75 feet bgs were submitted for laboratory analysis. Laboratory analytical results of the ten (10) selected subsurface soil samples indicated constituent concentrations of BTEX and TPH-GRO/DRO were not detected above the MDL's.

On February 7, 2006, monitor well MW-8 was installed in a down gradient position approximately 380 feet southeast of the release point. Soil samples collected at 10, 25, 50, and 75 feet bgs were submitted for laboratory analysis. Laboratory results indicated constituent concentrations of BTEX were not detected above the MDL for four (4) selected soil samples. Laboratory analytical results indicated constituent concentrations of TPH-GRO/DRO were not detected above the MDL for the 10 and 25 feet bgs soil samples. Laboratory analytical results indicated the 50 feet bgs soil sample exhibited detectable concentrations of TPH-GRO/DRO below the NMOCD regulatory standard at 14 mg/Kg and the 75 feet bgs soil samples exceeded the NMOCD regulatory standard at 101 mg/Kg.

On August 13, 2007, monitor well MW-9 was installed in a down gradient position approximately 390 feet southeast of the release point. Soil samples collected at 5, 15, 25, 45, 65, 70, and 75 feet bgs were submitted for laboratory analysis. Laboratory analytical results of the seven (7) selected subsurface soil samples indicated constituent concentrations of BTEX and TPH-GRO/DRO were not detected above the MDL's.

The distribution of hydrocarbons in the unsaturated zone has been estimated by utilizing the following techniques:

- Visual and olfactory observations of the subsurface samples and;
- Review of the soil sample analytical laboratory results.

Hydrocarbon impacted soil, above the NMOCD regulatory standard, was identified in soil samples collected from soil borings SB-2 (five foot bgs soil sample only), SB-3, SB-4 SB-5, SB-6 and SB-10. Monitor well MW-3 exhibited an isolated TPH-GRO/DRO concentration above the NMOCD regulatory standard in the vadose zone (soil sample MW-3 55'). Soil samples collected and analyzed during the installation of monitor wells MW-3 and MW-8 indicated TPH-GRO/DRO concentrations exceeded the NMOCD regulatory standard (121 mg/Kg and 101 mg/Kg, respectively) were present in the capillary fringe zone of the monitor wells.

3.5 Distribution of Hydrocarbons in the Saturated Zone

Groundwater was encountered at depths ranging from 74 to 76 feet bgs in the monitor wells during drilling activities. No evidence of phase-separated hydrocarbons (PSH) was detected during drilling or groundwater sampling activities. Groundwater Elevation Data is provided as Table 2.

The laboratory analytical results of quarterly groundwater sampling events indicates dissolved phase benzene is present in concentrations exceeding the NMOCD regulatory standard in monitor wells MW-2, MW-3 and MW-7 only. Monitor wells MW-2, MW-3 and MW-7 do not exhibit toluene, ethyl-benzene or xylene in concentrations exceeding the NMOCD regulatory standard.

Monitor wells MW-1, MW-4 through MW-6, MW-8 and MW-9 do not exhibit BTEX constituent concentrations exceeding the NMOCD regulatory standard. A table summarizing the Concentrations of BTEX in Groundwater is provided as Table 3.

4.0 ABATEMENT OPTIONS

4.1 Soil Abatement Options

Hydrocarbon impacted soil, above the NMOCD regulatory standard, was identified in soil samples collected from soil borings SB-2 (five foot bgs soil sample only), SB-3, SB-4 SB-5, SB-6 and SB-10. Monitor well MW-3 exhibited an isolated TPH-GRO/DRO concentration above the NMOCD regulatory standard in the vadose zone (soil sample MW-3 55'). Soil samples collected and analyzed during the installation of monitor wells MW-3 and MW-8 indicated TPH-GRO/DRO concentrations exceeded the NMOCD regulatory standard (121 mg/Kg and 101 mg/Kg, respectively) were present in the capillary fringe zone of the monitor wells. Please reference Table 2, for Concentrations of BTEX, TPH-GRO/DRO and Chlorides in Soil, Figure 2 for the locations of the soil borings and monitor well and Appendix B for laboratory analytical results.

Due to the depth of hydrocarbon impact below and adjacent to the release point, Plains proposes a risk-based partial excavation of the hydrocarbon impacted soil and installation of an impervious liner on the floor of the excavation. The excavation of hydrocarbon impacted soil to the groundwater interface (approximately 74 feet bgs) would be cost prohibitive and impractical given the numerous oil and gas and transportation facilities (Railroad and NM Highway 18) in close proximity to the release site.

Plains proposes to excavate the hydrocarbon impact soil to a depth of fifteen (15) feet bgs and stockpile the soil on-site pending final disposition of the soil. The volume of excavated soil will be approximately 5,660 cy. The proposed area of excavation is approximately defined by soil borings SB-2, SB-4, SB-5, SB-6, SB-10 and SB-3. Please reference Figure 5 for a Proposed Excavation Map. The excavation activities will be field evaluated utilizing visual, olfactory observations and PID technologies. The sidewalls of the excavation will be sampled at 50 foot linear intervals utilizing standard sampling protocol and submitted for confirmatory BTEX and TPH-GRO/DRO analysis. When confirmation analytical results indicate the sidewalls of the excavation are below the NMOCD regulatory standard, based on allowable concentrations as discussed in Section 3.3 of this Stage 1 and Stage 2 Abatement Plan, the excavation will cease. Following excavation to a depth of 15 feet bgs and with NMOCD approval, the floor of the excavation will be covered with a six-inch layer of non-impacted sand and a twenty-millimeter thick liner manufactured for this purpose, and covered with a six-inch layer of non-impacted cushioning sand. The sand layers are designed to act as a protective barrier from sharp objects in the excavation. Monitor wells located within the excavation will be fitted with a protective boot to maintain the impervious qualities of the liner.

The liner is an engineering control designed to shed moisture to the edges of the liner and away from any impacted soil below the liner, limiting the potential for leaching of

contaminants to the groundwater. With NMOCD approval, the hydrocarbon impacted stockpiles will be blended on-site. Following blending activities one (1) stockpile soil sample will be collected for each 500 cy of soil. When the laboratory analytical results indicate stockpile TPH concentrations are below 1,000 mg/Kg, Plains proposes to place the remediated soil in the excavation, on top of the liner to a depth of two (2) feet bgs. The remediated backfill soil will be placed in the excavation in eighteen (18) inch lifts and compacted to minimize slumping. The upper two (2) feet of soil will be non-impacted soil locally purchased. Any stockpiled soil remaining on-site will be transported to the Plains Lea Station Landfarm located near Monument, New Mexico, for remediation. Following the backfilling of the excavation, the surface will be restored to as near original grade as practical and vegetation acceptable to the landowner will be established.

4.2 Groundwater Abatement Options

On November 30, 2007, the site monitor wells were gauged during the scheduled fourth quarter 2007 sampling events. The collected fourth quarter groundwater gauging data was plotted and an inferred groundwater gradient map was constructed. The data indicates the site groundwater gradient is approximately 0.0014 feet/foot to the south-southeast. Please reference Table 2 for Groundwater Elevation Data and Figure 6 for the fourth quarter 2007 Inferred Groundwater Gradient Map.

The release site is currently impacted by dissolved phase BTEX constituents in three of the on-site monitor wells (MW-2, MW-3 and MW-7). Currently, the three monitor wells are gauged on a weekly frequency and sampled on a quarterly schedule. Please reference the fourth quarter 2007 Groundwater Concentration Map provided as Figure 7 and BTEX concentrations in Groundwater provided in Table 3

Currently, the analytical results indicate the dissolved phase BTEX plume appears to be stable and horizontally delineated and no additional monitor well installations are anticipated at this time.

An accurate estimate of the hydraulic properties of the dissolved phase impacted aquifer will require completion of a 24-hour steady state draw down test. Analysis of the data gathered from aquifer testing will enable reliable estimates of transmissive and storage properties needed as modeling parameters used to design and test groundwater treatment alternatives at the site. In order to assess the effectiveness of potential bioremediation alternatives at the site, sampling and analysis of the indigenous microbe colonies present in both the unsaturated and saturated zones will also be conducted.

Upon completion of the aquifer testing, abatement of the impacted on-site groundwater is technically feasible utilizing the following technologies:

- Monitored Natural Attenuation / Long Term Groundwater Monitoring
- Groundwater Pump and Treat System
- Air Sparging

Monitored Natural Attenuation / Long Term Groundwater Monitoring technology (NA/LT) relies on naturally occurring processes such as dispersion, diffusion, sorption and degradation (either biodegradation or abiotic processes such as hydrolysis), volatilization and dilution to control plume movement and destruction of dissolved phase hydrocarbons in the groundwater. Volatilization and diffusion are relatively unimportant in most non-clay groundwater systems; therefore, the main attenuation processes active are dispersion, sorption, degradation and dilution. Dispersion is subsurface mixing due to groundwater movement and aquifer heterogeneities. Vertical dispersion is not common at sites impacted with light non-aqueous phase liquids such as crude oil so this component may also be disregarded. Sorption is a nondestructive process in which hydrocarbon compounds are sorbed to the aquifer matrix, represented by a retardation factor. Sorption operates as an attenuation process by effectively reducing the mass available to the dissolved phase plume. Biodegradation involves chemical transformation of the hydrocarbon constituents into mineralized end products, for instance CO_2 , H_2O and salts, by living organisms. Occasionally, metabolic activity does change the chemical form of the hydrocarbon constituents but does not conclude with mineralization; this is referred to as biotransformation. Of particular importance in this pathway of attenuation is the determination of whether the impacted area is controlled by either anaerobic or aerobic conditions. Aerobic conditions exist under relatively oxygen rich environments resulting in compounds being formed through the reaction of available oxygen and dissolved phase hydrocarbons transforming into H_2O . Anaerobic conditions are relatively oxygen poor environments and result in transformations into nitrate, ferric iron, sulfate and carbon dioxide products. Dilution is mixing of the plume with groundwater flowing through the effected area. It becomes an important process in natural attenuation when the impacted groundwater enters a zone where significant surface recharge enters the impacted aquifer. Geochemical indicators and concentration migration rate calculations will be utilized to determine if dissolved phase hydrocarbons are susceptible to natural attenuation on a site-specific basis. NA/LT technologies can be combined with passive groundwater remediation technologies, such as Isoc [®] technology, which are designed to enhance natural attenuation of impacted groundwater.

Pump and Treat technology employs groundwater withdrawal, combined with an air stripping system to remove dissolved BTEX constituents from the groundwater. Hydraulic conductivity values expected from the loose, unconsolidated sands found in the area should support a relatively expanded range of groundwater withdrawal rates. As the project matures, withdrawal rates are varied in response to shifting contaminant of concern concentration foci in an effort to maximize system utilization. The primary exclusion factors concerning this type of treatment technology are the extended length of system operation time required to achieve site cleanup goals and the large quantities of effluent produced requiring off-site disposal or injection back into the aquifer materials. Aerated effluent water could be injected back into the formation in up gradient locations to enhance aquifer-flushing action. The injected water would also carry oxygen to the subsurface, promoting biodegradation.

Air Sparging remediates the groundwater by stripping or volatilizing the BTEX constituents from the dissolved phase and increases in-situ biodegradation by the addition

of oxygen to the impacted groundwater. As BTEX constituents are liberated from the aqueous phase and enter the gas phase, they migrate to the capillary fringe and subsequently the vadose zone. This treatment technique effectively removes BTEX constituents from the saturated and vadose zones and also restricts continued plume migration. A long-term groundwater monitoring program would be conducted to confirm plume stabilization and to monitor dissolved phase BTEX constituents. A single injection well pilot test is conducted to test the applicability of this remedial technology. A skid mounted compressor as well as vadose zone monitor wells are utilized for pilot testing purposes. The following in-situ parameters are monitored during pilot testing: soil gas concentrations of BTEX constituents, soil gas pressure and groundwater level measurements. The following in-situ parameters are monitored after the air injection ceases: dissolved phase BTEX concentration, dissolved oxygen levels, temperature, and Redox potential/pH. Installations of injection wells across areas of effected groundwater are conducted incrementally to optimize the well field configuration. The 2-inch, schedule 40 PVC injection wells penetrate the saturated zone with approximately 5 feet of fully immersed 0.020-inch slotted pipe. Air compressors are utilized to generate the required air pressure for injection purposes. On the surface, the wells are piped to an activated carbon filtering system for effluent gas treatment prior to atmospheric discharge. A moisture knock out pot is installed down line of the effluent piping manifold to prevent moisture from entering the carbon treatment unit. Air Sparging generally consists of a compressor, pressure regulator, pressure gauges, flow meters, vacuum blower, and component isolation ball valves. In-situ system operating parameters which are monitored during system operation include: soil gas concentrations of BTEX constituents, injection well pressure and flow rate, weekly oxygen, carbon dioxide, nitrogen and methane concentrations and the pulsing frequency. Data derived from pilot testing is utilized to design the final system configuration.

5.0 SCHEDULE OF ABATEMENT ACTIVITIES

Plains is prepared to conduct the soil abatement activities, as outlined above, immediately following approval of this Stage 1 and Stage 2 Abatement Plan. Aquifer testing will determine which of the outlined groundwater abatement alternatives is most effective at the Lovington Gathering WTI release site. After aquifer testing is completed and evaluated, Plains will submit a Modified Stage 2 Abatement Plan to address dissolved phase issues at the site.

6.0 MONITORING PROGRAM

All site monitor wells are gauged and sampled on a quarterly basis. Each well is monitored for the presence of PSH and depth to groundwater. All groundwater monitor wells, with the exception of those registering a presence of PSH greater than 0.01 foot thick, are purged and sampled for dissolved phase BTEX constituents. Groundwater sampling methodology is described in Section 8.2, Groundwater Sampling of this Stage 1 and Stage 2 Abatement Plan. Monitor wells with PSH are gauged and pumped down by hand bailing or with an electronic pump on a site-specific schedule. The quarterly

groundwater monitoring data is compiled and summarized in an Annual Monitoring Report, which is submitted to the NMOCD on April 1st of each year.

7.0 SUMMARY AND CONCLUSIONS

Due to the depth of hydrocarbon impact below and adjacent to the release point, Plains proposes a risk-based partial excavation of the hydrocarbon impacted soil and installation of an impervious liner on the floor of the excavation as detailed in Section 4.1 of this Stage 1 and Stage Abatement Plan. The excavation of the hydrocarbon impacted soil to the groundwater interface (approximately 74 feet bgs) would be cost prohibitive and impractical given the numerous oil and gas and transportation facilities (railroad and NM Highway 18) in close proximity to the release site.

Currently, nine (9) monitor wells are located on site and three (3) monitor wells exhibit dissolved phase BTEX constituent concentrations in excess of the NMOCD regulatory standard. The laboratory analytical results indicate the dissolved phase BTEX plume appears to be stable and horizontally delineated and no additional monitor well installations are anticipated at this time.

Aquifer testing will be conducted and evaluated to determine the most effective groundwater abatement option available at the Lovington Gathering WTI release site. Following the completion and evaluation of the data Plains will submit a Modified Stage 2 Abatement Plan to address dissolved phase issues at the site. The release site will be monitored and sampled on a quarterly schedule and an Annual Monitoring Report will be submitted to the NMOCD by April 1st of each year.

8.0 QA/QC PROCEDURES

8.1 Soil Sampling

Samples of subsurface soils are obtained utilizing a split spoon sampler. Representative soil samples are divided into two separate portions using clean, disposable gloves and clean sampling tools. One portion of the soil sample is placed in a disposable sample bag. The bag is labeled and sealed for headspace analysis using a PID calibrated to a 100-ppm isobutylene standard. Each sample is allowed to volatilize for approximately thirty minutes at ambient temperature prior to conducting the analysis.

The other portion of the soil sample is placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container is filled to capacity to limit the amount of headspace present. Each container is labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler is sealed for shipment to the laboratory. Proper chain-of-custody documentation is maintained throughout the sampling process.

Soil samples are delivered to a certified laboratory for BTEX, and TPH-GRO/DRO analyses using the methods described below. Soil and ground water samples are analyzed within fourteen days following the collection date.

- BTEX concentrations in accordance with EPA SW 846 Method 8021B, 5030,
- TPH concentrations in accordance with EPA SW 846 Method 8015M GRO/DRO.

8.2 Groundwater Sampling

After purging the wells, groundwater samples are collected with a disposable Teflon sampler and polyethylene line by personnel wearing clean, disposable gloves.

Groundwater samples collected for BTEX analysis are placed in 40 ml glass VOA vials equipped with Teflon lined caps, which are provided by the analytical laboratory. The vials are filled to a positive meniscus, sealed, and visually checked to ensure the absence of air bubbles.

The filled containers are labeled and placed on ice in an insulated cooler. The cooler is sealed for transportation to the analytical laboratory. Proper chain-of-custody documentation is maintained throughout the sampling process.

The groundwater samples are analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030

8.3 Decontamination of Equipment

Cleaning of drilling equipment is the responsibility of the drilling company. In general, the cleaning procedures consists of using high-pressure steam to wash the drilling and sampling equipment prior to drilling and prior to starting each boring. Prior to use, the sampling equipment is cleaned with Liqui-Nox® detergent and rinsed with distilled water.

8.4 Laboratory Protocol

The laboratory is responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures are either transmitted with the laboratory reports or are on file at the laboratory.

9.0 LIMITATIONS

Basin Environmental Service Technologies, LLC has prepared this Stage 1 and Stage 2 Abatement Plan to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Service Technologies, LLC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Service Technologies, LLC 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. Basin Environmental Service Technologies, LLC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Service Technologies, LLC 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 Basin Environmental Service Technologies, LLC and/or Plains.

Figures

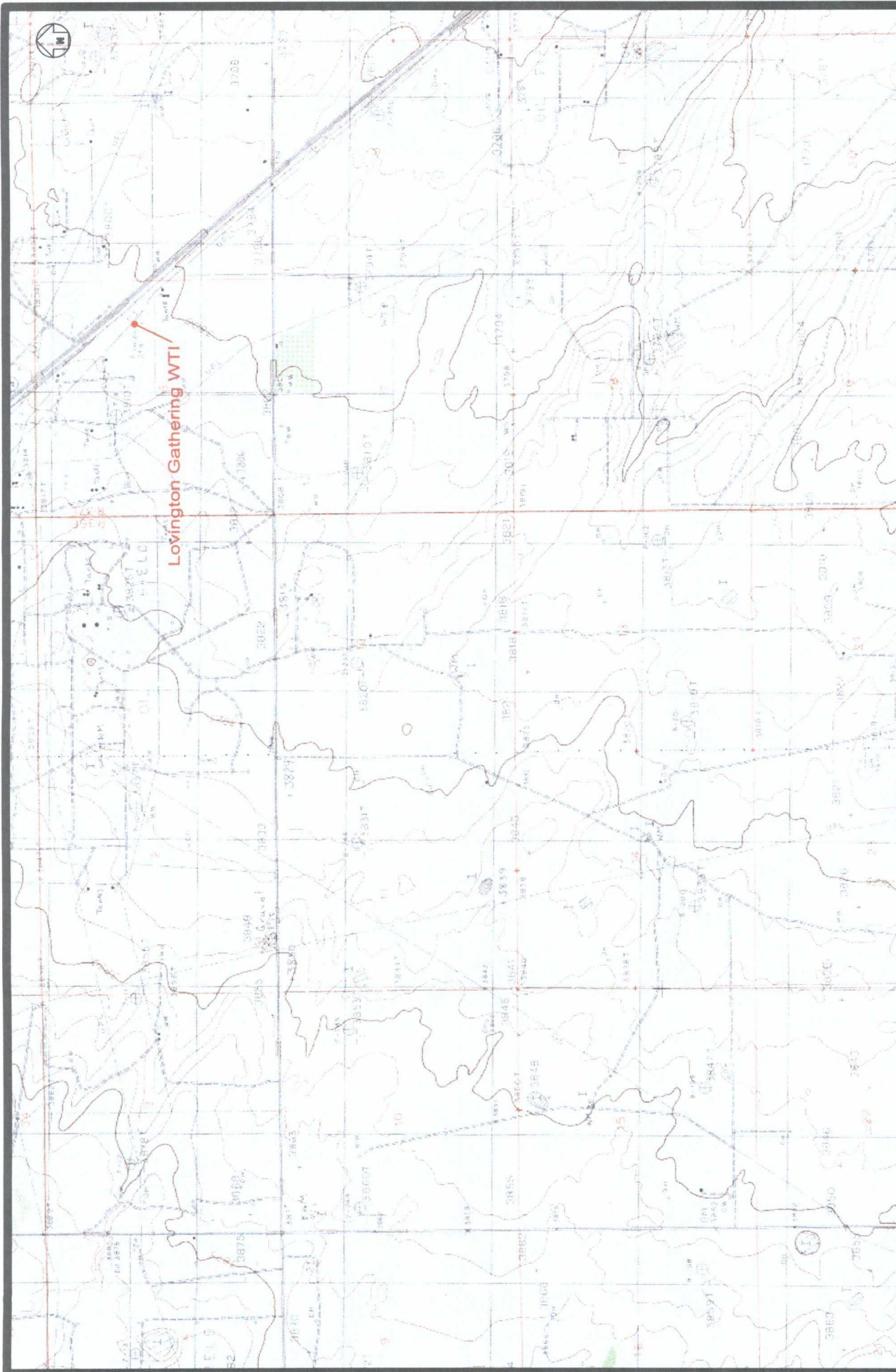
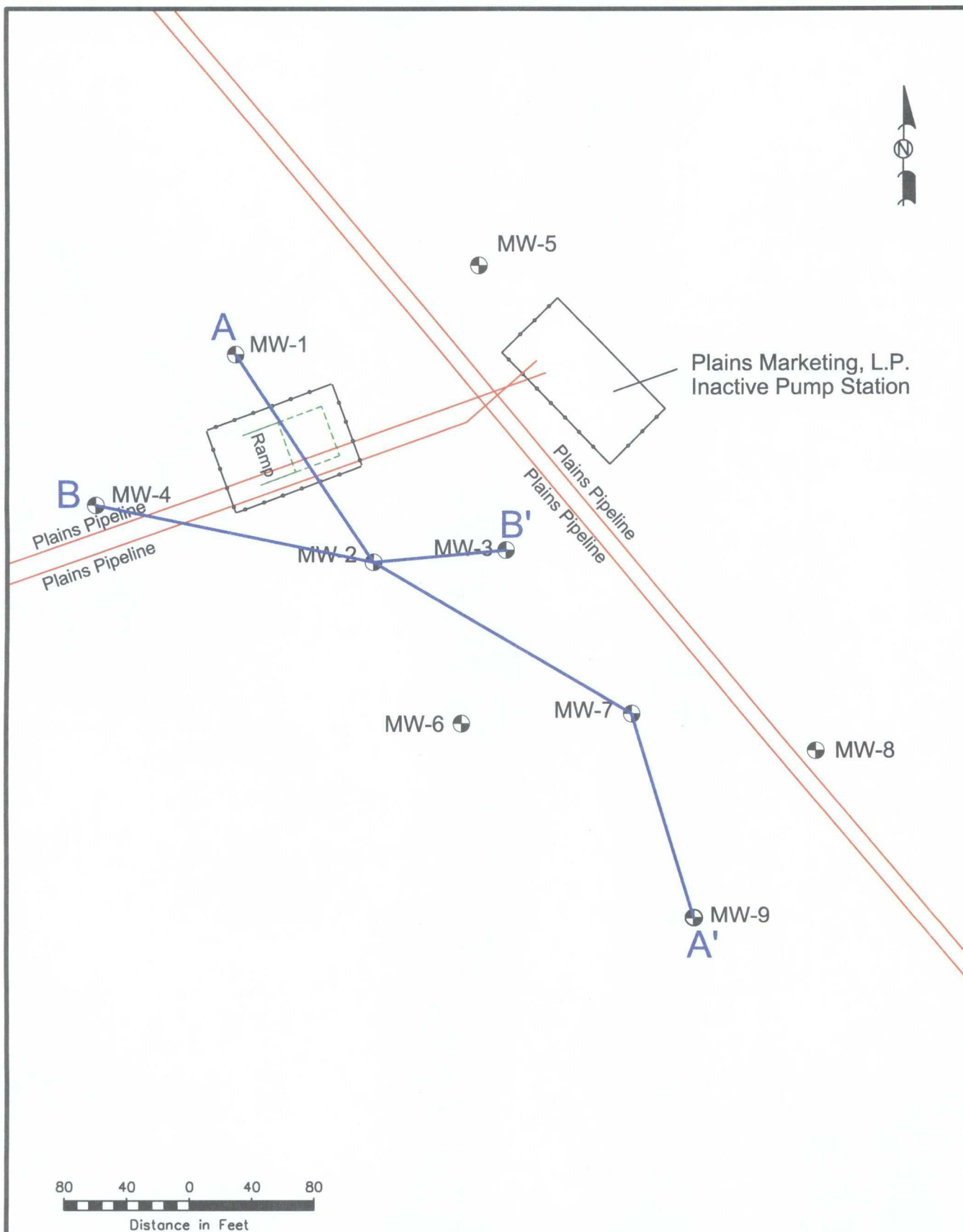


Figure 1
 Site Location Map
 Lovington Gathering WTI
 Plains Markering, L.P.
 Lea County, New Mexico
 1RP-838



Basin Environmental Services



LEGEND:

- Monitoring Well Location
- Soil Boring Location
- Pipeline
- Excavation Extent
- Line of Cross Section

Figure 2
Site and Cross Section
Index Map

Plains Marketing, L.P.
Lovington Gathering WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
May 7, 2008	SE1/4 NE1/4 Sec 16 T17S R37E	
	Lat. N32° 51' 56" Long. W103° 17' 07.2"	

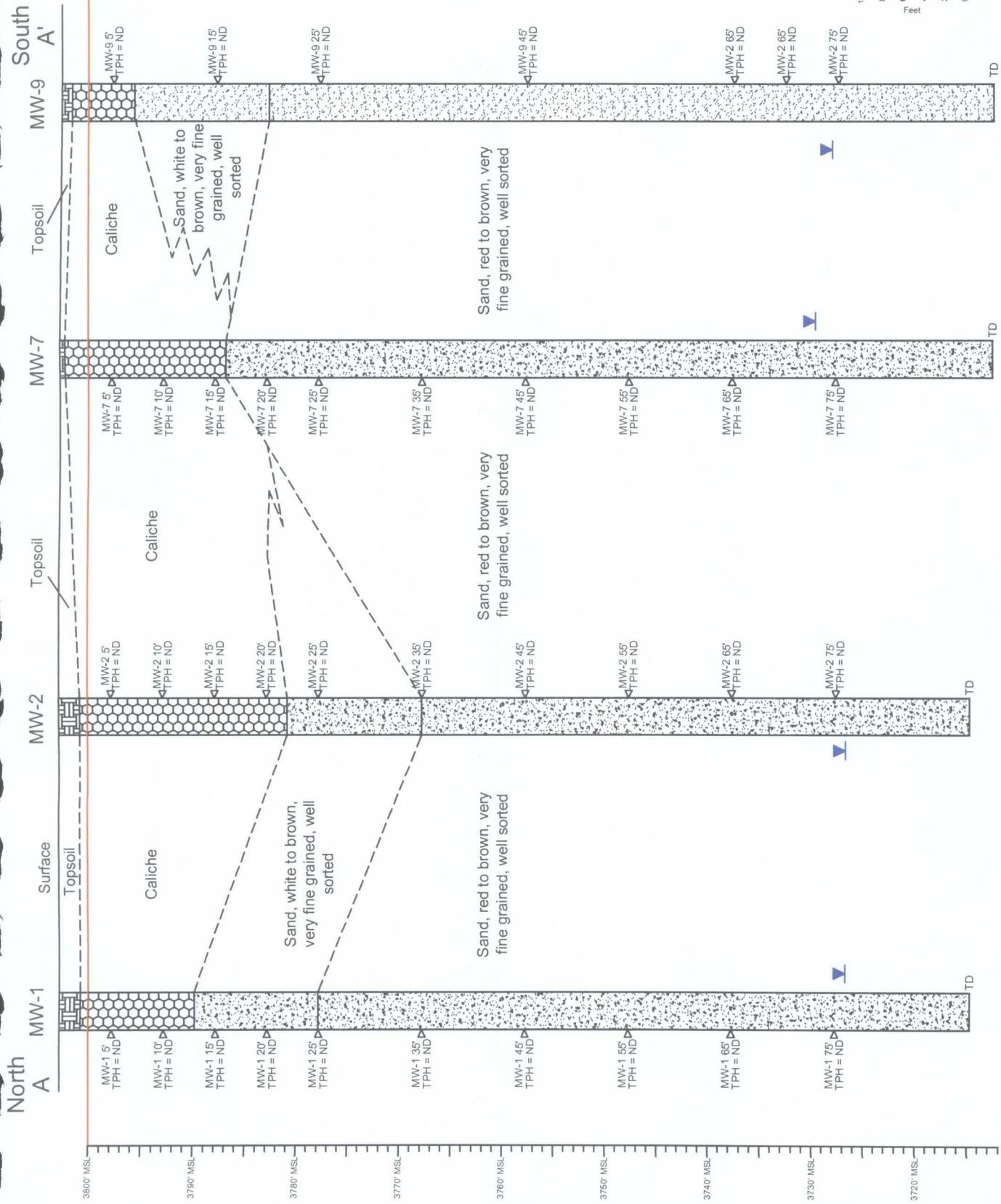


Figure 3

North - South Stratigraphic Cross Section A - A'
 Lovington Gathering WTI (1RP-838) Lea County, New Mexico
 Plains Marketing, L.P.

Basin Environmental Services

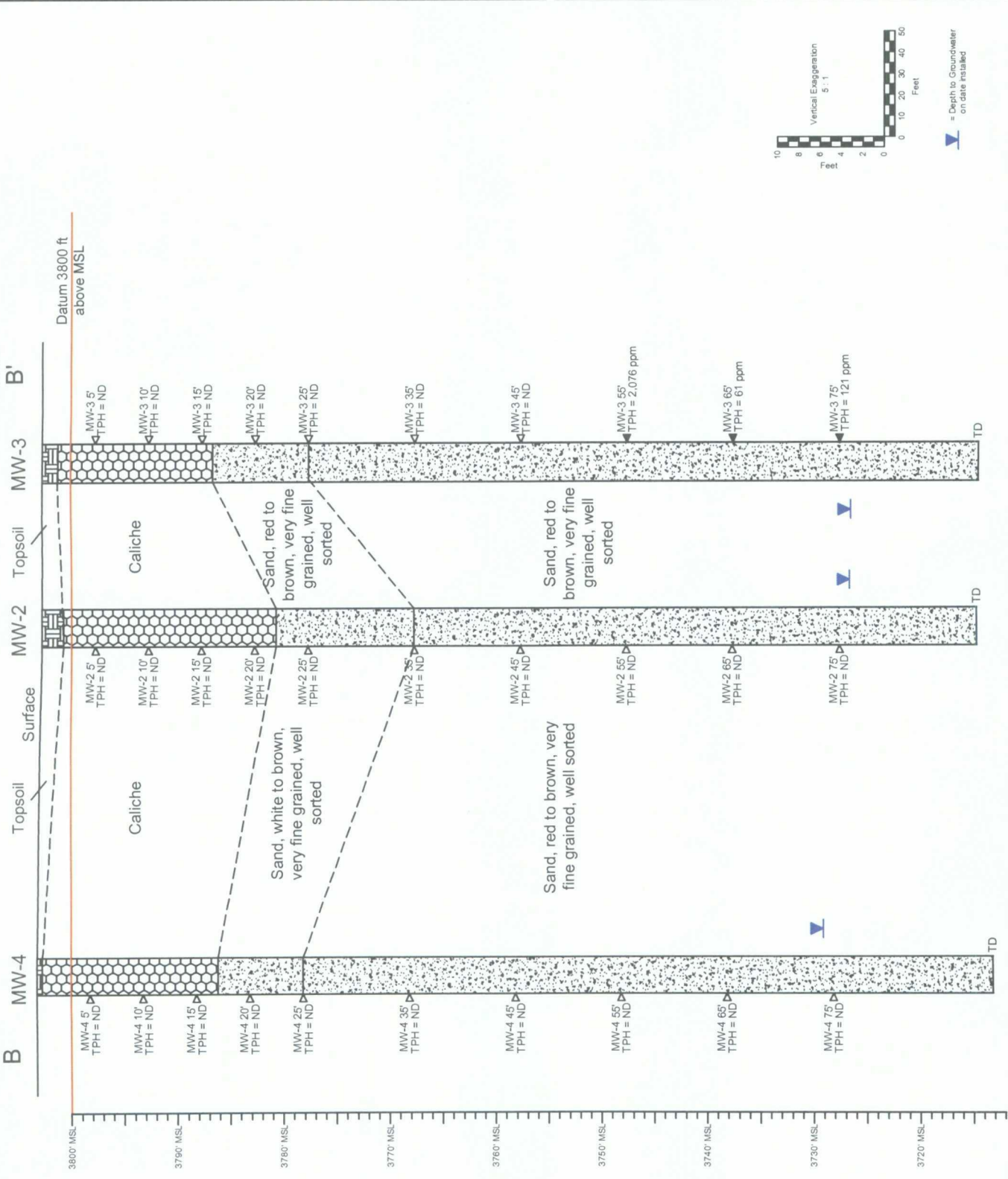
Prep By: CDS

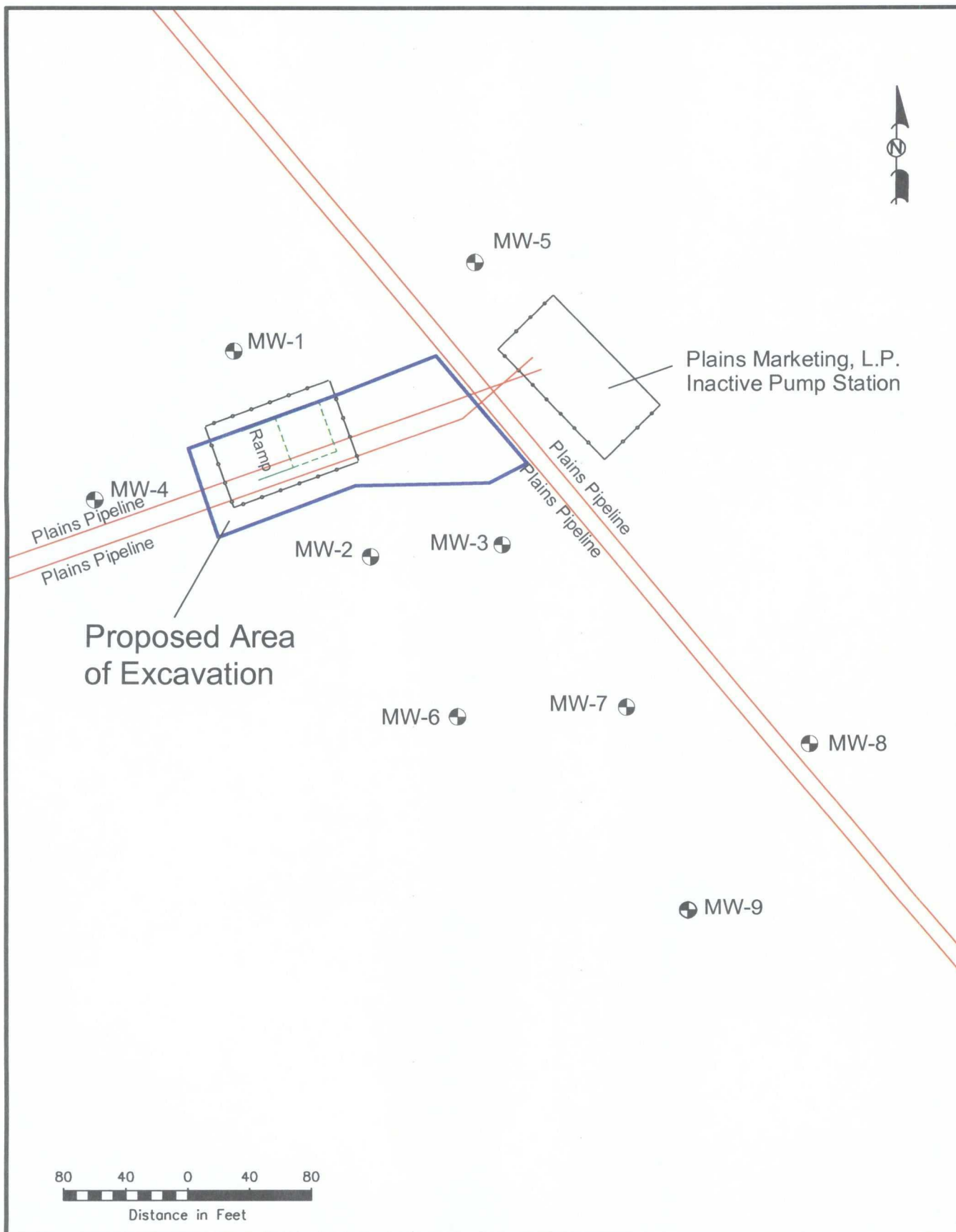
Checked By: CDS

Date: June 11, 2008

Scale: See Scale Bar

West East
B B'





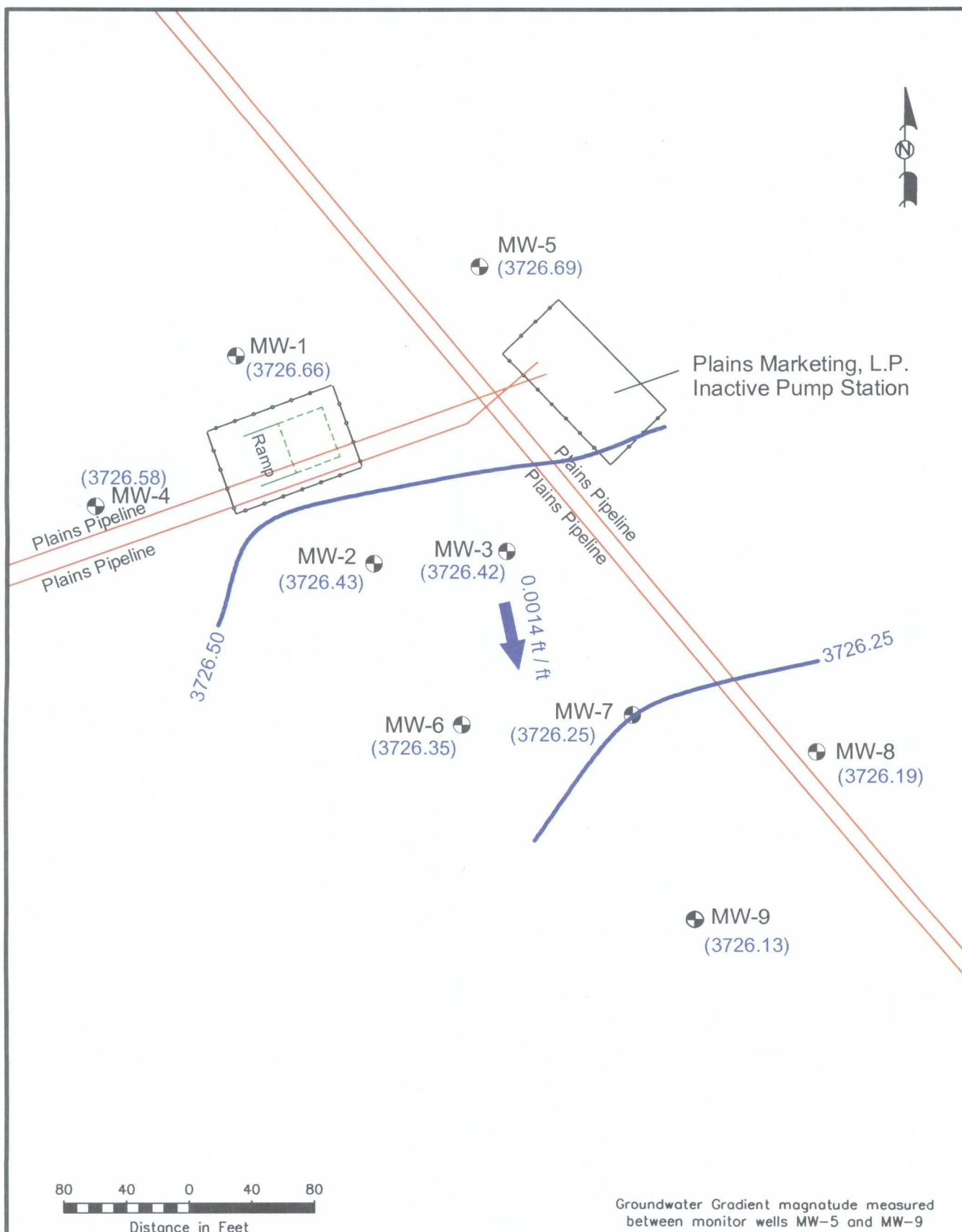
LEGEND:

- Monitoring Well Location
- Soil Boring Location
- Pipeline
- Initial Excavation Extent
- Proposed Excavation Extent

Figure 5
Proposed Excavation Map
 Plains Marketing, L.P.
 Lovington Gathering WTI
 Lea County, NM
 1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
May 7, 2008	SE 1/4 NE 1/4 Sec 16 T17S R37E	
	Lat. N32° 51' 56" Long. W103° 17' 07.2"	



Groundwater Gradient magnitude measured between monitor wells MW-5 and MW-9

- LEGEND:
- Monitor Well Location
 - Excavation Extents
 - Fence
 - Pipeline
 - Groundwater Gradient Contour Line
 - Groundwater Elevation (feet)
 - Groundwater Gradient Direction and Magnitude

Figure 6
Inferred Groundwater
Gradient Map
(11/30/07)
Plains Marketing, L.P.
Lovington Gathering WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
May 7, 2008	SE1/4 NE1/4 Sec 16 T17S R37E	
	Lat. N32° 51' 56" Long. W103° 17' 07.2"	

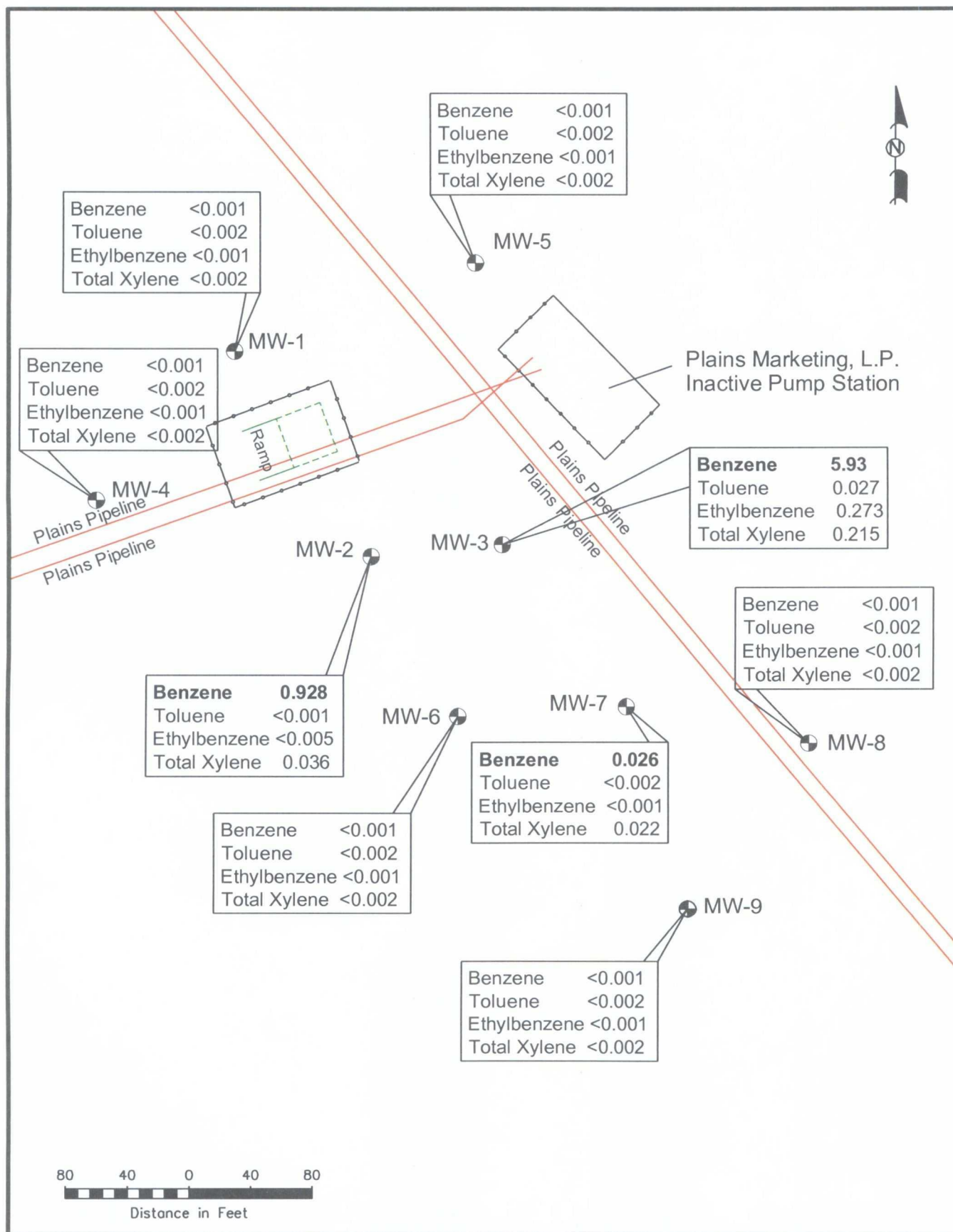


Figure 7
Groundwater Concentration
Map (11/30/07)
Plains Marketing, L.P.
Lovington Gathering - WTI
Lea County, NM
1RP-838

Basin Environmental Services

Scale: 1" = 80'	Drawn By: CDS	Prepared By: CDS
May 7, 2008	SE1/4 NE1/4 Sec 16 T17S R37E	
Lat. N32° 51' 56" Long. W103° 17' 07.2"		

Tables

TABLE 1

CONCENTRATIONS OF BTEX, TPH GRO/DRO AND CHLORIDES IN SOIL

PLAINS MARKETING, L.P.
 LOVINGTON GATHERING WTI
 LEA COUNTY, NEW MEXICO
 SRS: 2006-142
 NMOC REFERENCE #IRP-838

SAMPLE LOCATION	SAMPLE DEPTH (below ground surface)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030										METHOD: 8015M		E 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M,P- XYLENE (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	TOTAL TPH (mg/Kg)	CHLORIDES (mg/Kg)			
SB-1 5'	5' bgs	07/18/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0				
SB-1 10'	10' bgs	07/18/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0				
SB-1 20'	20' bgs	07/18/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0				
SB-1 30'	30' bgs	07/18/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0				
SB-2 5'	5' bgs	07/18/06	<0.025	<0.025	<0.025	0.065	<0.025	<0.025	27.3	414.7	442				
SB-2 10'	10' bgs	07/18/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0				
SB-2 20'	20' bgs	07/18/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0				
SB-2 30'	30' bgs	07/18/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0				
SB-3 5'	5' bgs	07/19/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	43.6	1021	1065				
SB-3 10'	10' bgs	07/19/06	<0.025	<0.025	0.174	0.232	0.052	0.458	225	2204	2429				
SB-3 15'	15' bgs	07/19/06	<0.025	<0.025	0.044	0.093	0.030	0.167	152	1969	2121				
SB-3 20'	20' bgs	07/19/06	<0.025	<0.025	0.036	0.063	<0.025	0.099	153	2012	2165				
SB-3 25'	25' bgs	07/19/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	76.9	77				
SB-3 35'	35' bgs	07/19/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	170.2	170				
SB-3 45'	45' bgs	07/19/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	409.8	410				
SB-3 55'	55' bgs	07/19/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	804.9	805				
SB-3 65'	65' bgs	07/19/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	15	540.8	556				
SB-3 75'	75' bgs	07/19/06	<0.025	<0.025	<0.025	0.036	<0.025	0.036	<10.0	40.7	41				
SB-4 5'	5' bgs	07/19/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	270.5	271				
SB-4 10'	10' bgs	07/19/06	<0.025	0.029	0.164	0.552	0.132	0.877	98.6	836.2	935				
SB-4 15'	15' bgs	07/19/06	<0.025	<0.025	0.066	0.160	0.082	0.308	133	1356	1489				
SB-4 20'	20' bgs	07/19/06	<0.025	0.068	0.112	0.257	0.069	0.506	101	1024	1125				
SB-4 25'	25' bgs	07/19/06	<0.025	<0.025	<0.025	0.026	<0.025	0.026	65.9	1492	1558				
SB-4 35'	35' bgs	07/19/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	46.4	1043.1	1090				
SB-4 45'	45' bgs	07/19/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	29.5	980.9	1010				
SB-4 55'	55' bgs	07/19/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	80.5	1641	1722				
SB-4 65'	65' bgs	07/19/06	<0.025	<0.025	<0.025	0.025	<0.025	0.025	56	1199	1255				
SB-4 75'	75' bgs	07/19/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	281.3	281				
SB-5 5'	5' bgs	07/19/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	18.3	664	682				
SB-5 10'	10' bgs	07/19/06	<0.025	0.116	0.730	0.884	0.447	2.177	322	2093	2415				
SB-5 15'	15' bgs	07/19/06	<0.025	0.186	0.744	2.12	1.01	4.06	450	2577	3027				
SB-5 20'	20' bgs	07/19/06	<0.025	0.135	0.479	1.01	0.633	2.257	343	2148	2491				
SB-5 25'	25' bgs	07/19/06	<0.025	0.097	0.263	0.519	0.326	1.205	266	1666	1932				
SB-5 35'	35' bgs	07/19/06	<0.025	<0.025	<0.025	0.044	<0.025	0.044	60.8	1196	1257				

TABLE 1

CONCENTRATIONS OF BTEX, TPH GRO/DRO AND CHLORIDES IN SOIL

PLAINS MARKETING, L.P.
 LOVINGTON GATHERING WTI
 LEA COUNTY, NEW MEXICO
 SRS: 2006-142
 NMOC REFERENCE #IRP-838

SAMPLE LOCATION	SAMPLE DEPTH (below ground surface)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015M			TOTAL TPH (mg/Kg)	E 300 CHLORIDES (mg/Kg)	
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M,P- XYLENE (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)					
SB-5 45'	45' bgs	07/19/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	71.4	1470	1541	
SB-5 55'	55' bgs	07/19/06	<0.025	<0.025	<0.025	0.026	<0.025	0.026	<0.025	<0.025	<0.025	135	1951	2086	
SB-5 65'	65' bgs	07/19/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	29.9	697.3	727	
SB-5 75'	75' bgs	07/19/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	10.4	88.5	99	
SB-6 5'	5' bgs	07/20/06	<0.025	<0.025	<0.025	0.029	<0.025	0.029	<0.025	<0.025	0.029	78.8	1461	1540	
SB-6 10'	10' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	158	2349	2507	
SB-6 15'	15' bgs	07/20/06	<0.025	<0.025	<0.025	0.030	<0.025	0.030	<0.025	<0.025	0.03	81.5	1361	1443	
SB-6 20'	20' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	23.1	926	949	
SB-6 25'	25' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	713.9	714	
SB-6 35'	35' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	193.7	194	
SB-6 45'	45' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	649.2	649	
SB-6 55'	55' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	24.8	1291	1316	
SB-6 65'	65' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	12.4	798.1	811	
SB-6 75'	75' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	15.5	16	
SB-7 5'	5' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-7 10'	10' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-7 20'	20' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-7 30'	30' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-8 5'	5' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-8 10'	10' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-8 20'	20' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-8 30'	30' bgs	07/20/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-9 5'	5' bgs	07/24/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-9 10'	10' bgs	07/24/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-9 20'	20' bgs	07/24/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-9 30'	30' bgs	07/24/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
SB-10 5'	5' bgs	07/24/06	<0.025	0.047	0.134	0.190	0.076	0.447	66.1	817	0.447	66.1	817	883	
SB-10 10'	10' bgs	07/24/06	0.251	1.62	10.4	10.2	2.42	24.891	777	2913	24.891	777	2913	3690	
SB-10 15'	15' bgs	07/24/06	0.142	2.04	5.13	7.77	3.96	19.042	746	3474	19.042	746	3474	4220	
SB-10 20'	20' bgs	07/24/06	0.152	3.46	6.54	10.4	5.82	26.372	812	3455	26.372	812	3455	4267	73.9
SB-10 25'	25' bgs	07/24/06	0.063	1.47	3.44	6.18	3.16	14.313	740	3102	14.313	740	3102	3842	
SB-10 35'	35' bgs	07/24/06	<0.025	0.252	0.557	1.05	0.455	2.314	87	760.3	2.314	87	760.3	847	
SB-10 45'	45' bgs	07/24/06	<0.025	0.029	0.067	0.114	0.059	0.269	44.3	663.6	0.269	44.3	663.6	708	

TABLE 1

CONCENTRATIONS OF BTEX, TPH GRO/DRO AND CHLORIDES IN SOIL

PLAINS MARKETING, L.P.

LOVINGTON GATHERING WTI

LEA COUNTY, NEW MEXICO

SRS: 2006-142

NMOC REFERENCE #IRP-838

SAMPLE LOCATION	SAMPLE DEPTH (below ground surface)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015M		TOTAL TPH (mg/Kg)	E 300 CHLORIDES (mg/Kg)
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M,P- XYLENE (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)			
SB-10 55'	55' bgs	07/24/06	<0.025	0.260	0.493	0.789	0.418	1.96	121	1007.3	1128		
SB-10 65'	65' bgs	07/24/06	0.033	0.822	1.74	3.12	1.53	7.245	453	2595	3048		
SB-10 75'	75' bgs	07/24/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	12.9	157.5	170		
SB-11 5'	5' bgs	07/24/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
SB-11 10'	10' bgs	07/24/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
SB-11 20'	20' bgs	07/24/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
SB-11 30'	30' bgs	07/24/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-1 5'	5' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-1 10'	10' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-1 15'	15' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-1 20'	20' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-1 25'	25' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-1 35'	35' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-1 45'	45' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-1 55'	55' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-1 65'	65' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-1 75'	75' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-2 5'	5' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-2 10'	10' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-2 15'	15' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-2 20'	20' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-2 25'	25' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-2 35'	35' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-2 45'	45' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-2 55'	55' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-2 65'	65' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-2 75'	75' bgs	09/11/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-3 5'	5' bgs	09/12/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-3 10'	10' bgs	09/12/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-3 15'	15' bgs	09/12/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-3 20'	20' bgs	09/12/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-3 25'	25' bgs	09/12/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-3 35'	35' bgs	09/12/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-3 45'	45' bgs	09/12/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		

TABLE 1

CONCENTRATIONS OF BTEX, TPH GRO/DRO AND CHLORIDES IN SOIL

PLAINS MARKETING, L.P.
 LOVINGTON GATHERING WTI
 LEA COUNTY, NEW MEXICO
 SRS: 2006-142
 NMOCD REFERENCE #1RP-838

SAMPLE LOCATION	SAMPLE DEPTH (below ground surface)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M		TOTAL TPH (mg/Kg)	E 300 CHLORIDES (mg/Kg)
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M,P- XYLENE (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)		
MW-3 55'	55' bgs	09/12/06	<0.025	0.032	0.039	0.641	0.310	1.022	249	1827	2076	
MW-3 65'	65' bgs	09/12/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	61.3	61	
MW-3 75'	75' bgs	09/12/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	121	121	
MW-4 5'	5' bgs	11/22/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-4 10'	10' bgs	11/22/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-4 15'	15' bgs	11/22/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-4 20'	20' bgs	11/22/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-4 25'	25' bgs	11/22/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-4 35'	35' bgs	11/22/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-4 45'	45' bgs	11/22/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-4 55'	55' bgs	11/22/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-4 65'	65' bgs	11/22/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-4 75'	75' bgs	11/22/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-5 5'	5' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-5 10'	10' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-5 15'	15' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-5 20'	20' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-5 25'	25' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-5 35'	35' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-5 45'	45' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-5 55'	55' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-5 65'	65' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-5 75'	75' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-6 5'	5' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-6 10'	10' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-6 15'	15' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-6 20'	20' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-6 25'	25' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-6 35'	35' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-6 45'	45' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-6 55'	55' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-6 65'	65' bgs	11/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-6 75'	75' bgs	11/28/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-7 5'	5' bgs	11/28/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	

TABLE 1

CONCENTRATIONS OF BTX, TPH GRO/DRO AND CHLORIDES IN SOIL

PLAINS MARKETING, L.P.
 LOVINGTON GATHERING WTI
 LEA COUNTY, NEW MEXICO
 SRS: 2006-142
 NMOC REFERENCE #1RP-838

SAMPLE LOCATION	SAMPLE DEPTH (below ground surface)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH (mg/Kg)	E 300 CHLORIDES (mg/Kg)
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M,P- XYLENE (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)			
MW-7 10'	10' bgs	11/28/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-7 15'	15' bgs	11/28/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-7 20'	20' bgs	11/28/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-7 25'	25' bgs	11/28/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-7 35'	35' bgs	11/28/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-7 45'	45' bgs	11/28/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-7 55'	55' bgs	11/28/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-7 65'	65' bgs	11/28/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-7 75'	75' bgs	11/28/06	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-8 10'	10' bgs	02/07/07	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-8 25'	25' bgs	02/07/07	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
MW-8 50'	50' bgs	02/07/07	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	14	14		
MW-8 75'	75' bgs	02/07/07	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	101	101		
MW-9 5'	5' bgs	08/13/07	<0.002	<0.002	<0.002	<0.004	<0.002	<0.004	<10.0	<10.0	<10.0		
MW-9 15'	15' bgs	08/13/07	<0.002	<0.002	<0.002	<0.004	<0.002	<0.004	<10.0	<10.0	<10.0		
MW-9 25'	25' bgs	08/13/07	<0.002	<0.002	<0.002	<0.004	<0.002	<0.004	<10.0	<10.0	<10.0		
MW-9 45'	45' bgs	08/13/07	<0.002	<0.002	<0.002	<0.004	<0.002	<0.004	<10.0	<10.0	<10.0		
MW-9 65'	65' bgs	08/13/07	<0.002	<0.002	<0.002	<0.004	<0.002	<0.004	<10.0	<10.0	<10.0		
MW-9 70'	70' bgs	08/13/07	<0.002	<0.002	<0.002	<0.004	<0.002	<0.004	<10.0	<10.0	<10.0		
MW-9 75'	75' bgs	08/13/07	<0.002	<0.002	<0.002	<0.004	<0.002	<0.004	<10.0	<10.0	<10.0		

TABLE 2

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
 LOVINGTON GATHERING WTI
 LEA COUNTY, NEW MEXICO
 PLAINS SRS NO: 2006-142
 NMOCD REF NO: 1RP-838

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-1	10/05/06	3,806.60	-	78.00	0.00	3,728.60
	12/28/06	3,806.60	-	78.00	0.00	3,728.60
	03/16/07	3,806.60	-	79.50	0.00	3,727.10
	05/31/07	3,806.60	-	78.97	0.00	3,727.63
	09/25/07	3,806.60	-	80.16	0.00	3,726.44
	11/30/07	3,806.60	-	79.94	0.00	3,726.66
MW-2	10/05/06	3,806.31	-	77.94	0.00	3,728.37
	12/28/06	3,806.31	-	77.94	0.00	3,728.37
	03/16/07	3,806.31	-	79.13	0.00	3,727.18
	05/31/07	3,806.31	-	78.82	0.00	3,727.49
	09/25/07	3,806.31	-	80.13	0.00	3,726.18
	11/30/07	3,806.31	-	79.88	0.00	3,726.43
MW-3	10/05/06	3,806.19	-	77.85	0.00	3,728.34
	12/28/06	3,806.19	-	77.85	0.00	3,728.34
	03/16/07	3,806.19	-	79.13	0.00	3,727.06
	05/31/07	3,806.19	-	78.73	0.00	3,727.46
	09/25/07	3,806.19	-	80.03	0.00	3,726.16
	11/30/07	3,806.19	-	79.77	0.00	3,726.42
MW-4	12/28/06	3,806.67	-	78.73	0.00	3,727.94
	03/16/07	3,806.67	-	79.17	0.00	3,727.50
	05/30/07	3,806.67	-	79.09	0.00	3,727.58
	09/25/07	3,806.67	-	80.35	0.00	3,726.32
	11/30/07	3,806.67	-	80.09	0.00	3,726.58
MW-5	12/28/06	3,806.30	-	78.23	0.00	3,728.07
	03/16/07	3,806.30	-	78.79	0.00	3,727.51
	05/30/07	3,806.30	-	78.71	0.00	3,727.59
	09/25/07	3,806.30	-	79.89	0.00	3,726.41
	11/30/07	3,806.30	-	79.61	0.00	3,726.69
MW-6	12/28/06	3,806.08	-	78.42	0.00	3,727.66
	03/16/07	3,806.08	-	79.20	0.00	3,726.88

TABLE 2

GROUNDWATER ELEVATION DATA

**PLAINS MARKETING, L.P.
LOVINGTON GATHERING WTI
LEA COUNTY, NEW MEXICO
PLAINS SRS NO: 2006-142
NMOCD REF NO: 1RP-838**

MW-6	05/30/07	3,806.08	-	78.75	0.00	3,727.33
	09/25/07	3,806.08	-	80.10	0.00	3,725.98
	11/30/07	3,806.08	-	79.73	0.00	3,726.35
MW-7	12/28/06	3,806.05	-	78.40	0.00	3,727.65
	03/16/07	3,806.05	-	79.35	0.00	3,726.70
	05/31/07	3,806.05	-	78.71	0.00	3,727.34
	09/25/07	3,806.05	-	80.09	0.00	3,725.96
	11/30/07	3,806.05	-	79.80	0.00	3,726.25
MW-8	03/16/07	3,805.89	-	78.78	0.00	3,727.11
	05/31/07	3,805.89	-	78.64	0.00	3,727.25
	09/25/07	3,805.89	-	80.03	0.00	3,725.86
	11/30/07	3,805.89	-	79.70	0.00	3,726.19
MW-9	09/25/07	3,806.02	-	80.38	0.00	3,725.64
	11/30/07	3,806.02	-	79.89	0.00	3,726.13

TABLE 3

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
 LOVINGTON GATHERING WTI
 LEA COUNTY, NEW MEXICO
 PLAINS SRS NO. 2006-142
 NMOCD REF NO: 1RP-838

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8021B, 5030				
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	M,P-XYLENES (mg/L)	O-XYLENES (mg/L)
MW-1	10/05/06	<0.001	<0.001	<0.001	<0.001	<0.001
	12/28/06	<0.001	<0.001	<0.001	0.002	<0.001
	03/16/07	<0.001	<0.001	<0.001	<0.001	<0.001
	05/31/07	<0.001	<0.001	<0.001	<0.001	<0.001
	09/25/07	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
	03/11/08	<0.001	<0.002	<0.001	<0.002	<0.001
MW-2	10/05/06	0.01	<0.001	<0.001	<0.001	<0.001
	12/28/06	0.161	<0.001	<0.001	0.024	<0.001
	03/16/07	0.154	<0.001	<0.001	0.015	<0.001
	05/31/07	0.005	<0.001	<0.001	<0.001	<0.001
	09/25/07	0.050	<0.001	<0.001	0.003	<0.001
	11/30/07	0.928	<0.001	<0.005	0.036	<0.005
	03/11/08	0.0955	<0.002	<0.001	0.0032	<0.001
MW-3	10/05/06	6.6	<0.001	<0.001	0.072	<0.001
	12/28/06	1.02	<0.001	0.005	0.028	<0.001
	03/16/07	1.48	<0.001	0.013	0.034	<0.001
	05/31/07	1.66	0.010	0.034	0.029	0.012
	09/25/07	0.494	0.023	0.020	0.014	0.007
	11/30/07	5.93	0.027	0.273	0.141	0.074
	03/11/08	1.159	0.1073	0.1775	0.0662	0.1393
MW-4	12/28/06	<0.001	<0.001	<0.001	<0.001	<0.001
	03/16/07	<0.001	<0.001	<0.001	<0.001	<0.001
	05/30/07	<0.001	0.001	<0.001	<0.001	<0.001
	09/25/07	<0.001	0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
	03/11/08	<0.001	<0.002	<0.001	<0.002	<0.001
MW-5	12/28/06	<0.001	<0.001	<0.001	<0.001	<0.001
	03/16/07	<0.001	<0.001	<0.001	<0.001	<0.001
	05/30/07	<0.001	<0.001	<0.001	<0.001	<0.001
	09/25/07	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
	03/11/08	<0.001	<0.002	<0.001	<0.002	<0.001
MW-6	12/28/06	<0.001	<0.001	<0.001	<0.001	<0.001
	03/16/07	<0.001	<0.001	<0.001	<0.001	<0.001

TABLE 3

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS MARKETING, L.P.
 LOVINGTON GATHERING WTI
 LEA COUNTY, NEW MEXICO
 PLAINS SRS NO. 2006-142
 NMOCD REF NO: 1RP-838

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8021B, 5030				
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL- BENZENE (mg/L)	M,P- XYLENES (mg/L)	O-XYLENES (mg/L)
MW-6	05/30/07	<0.001	<0.001	<0.001	<0.001	<0.001
	09/25/07	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
	03/11/08	<0.001	<0.002	<0.001	<0.002	<0.001
MW-7	12/28/06	0.047	<0.001	<0.001	0.001	<0.001
	03/16/07	0.047	<0.001	<0.001	0.015	<0.001
	05/31/07	0.039	<0.001	<0.001	0.005	<0.001
	09/25/07	0.037	<0.001	<0.001	0.030	<0.001
	11/30/07	0.026	<0.002	<0.001	0.022	<0.001
	03/11/08	0.0437	<0.002	<0.001	0.015	<0.001
MW-8	03/16/07	<0.001	<0.001	<0.001	<0.001	<0.001
	05/31/07	<0.001	<0.001	<0.001	<0.001	<0.001
	09/25/07	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
	03/11/08	<0.001	<0.002	<0.001	<0.002	<0.001
MW-9	09/25/07	<0.001	<0.001	<0.001	<0.002	<0.001
	11/30/07	<0.001	<0.002	<0.001	<0.002	<0.001
	03/11/08	<0.001	<0.002	<0.001	<0.002	<0.001
NMOCD CRITERIA		0.01	0.75	0.75	0.62	

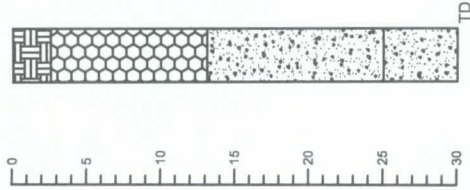
Appendices

Appendix A
Soil Boring and Monitor Well
Completion Logs

Soil Boring SB-1

Soil Description

Depth (feet) Soil Columns PID Reading Petroleum Odor Petroleum Stain



2.5 - 13' - Caliche

None

None

13 - 25' - Sand, white to brown, very fine grained, well sorted, dry

None

None

25 - 30' - Sand, red to brown, very fine grained, well sorted, dry

None

None

Soil Boring Details

Date Drilled July 18, 2006
 Thickness of Bentonite Seal 30 Ft
 Depth of Exploratory Boring 30 Ft
 Depth to Groundwater _____
 Ground Water Elevation _____



Indicates the PSH level measured on _____



Indicates the groundwater level measured on _____



Indicates samples selected for Laboratory Analysis.

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

Notes:

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- 3.) The depths indicated are referenced from below ground surface. (bgs)

Boring Log Details
 Soil Boring SB-1

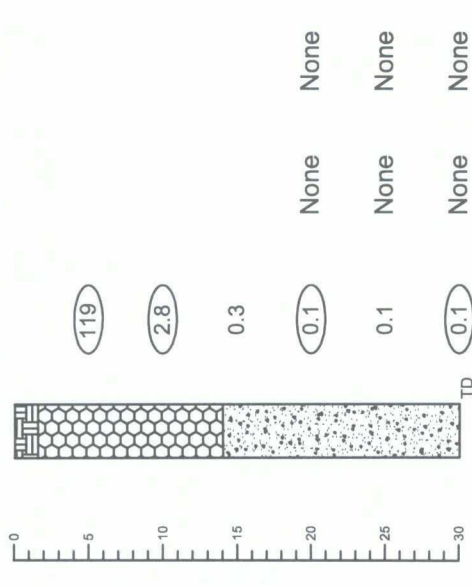
Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

Basin Environmental Services

Prep By: CDS Checked By: CDS
 Date: June 11, 2008

Soil Boring SB-2

Soil Description



Soil Boring Details

Date Drilled July 18, 2006
 Thickness of Bentonite Seal 30 Ft
 Depth of Exploratory Boring 30 Ft
 Depth to Groundwater
 Ground Water Elevation

- Indicates the PSH level measured on _____
- Indicates the groundwater level measured on _____
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Notes:

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- 3.) The depths indicated are referenced from below ground surface (bgs)

Boring Log Details

Soil Boring SB-2

Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

Basin Environmental Services

Prep By: CDS
 Date: June 11, 2008
 Checked By: CDS

Soil Description

Soil Boring Details

Date Drilled	July 19, 2006
Thickness of Bentonite Seal	75 Ft
Depth of Exploratory Boring	75 Ft
Depth to Groundwater	73.5 Ft
Ground Water Elevation	

Indicates the PSH level measured on

7

Indicates the groundwater level measured on July 19, 2006

0

Indicates samples selected for Laboratory Analysis.

PID

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

Notes:

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- 3.) The depths indicated are referenced from below ground surface. (bgs)

Boring Log Details

Soil Boring SB-3

Lovington Gathering WTI Lea County, New Mexico
Plains Marketing, L.P.

Basin Environmental Services

Prep By: CDS

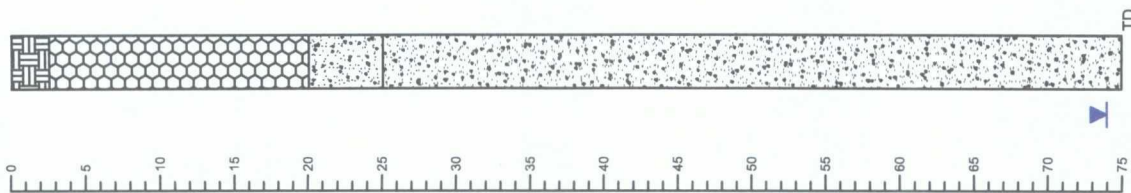
Checked By: CDS

Date: June 11, 2008

Soil Boring SB-4

Soil Description

Depth (feet) Soil Columns PID Reading Petroleum Odor Stain



Soil Boring Details

Date Drilled July 19, 2006
 Thickness of Bentonite Seal 75 Ft
 Depth of Exploratory Boring 75 Ft
 Depth to Groundwater 74 Ft
 Ground Water Elevation

2.5 - 19' - Caliche

19 - 25' - Sand, white to brown, very fine grained, well sorted, dry

25 - 75' - Sand, red to brown, very fine grained, well sorted, dry

- Indicates the PSH level measured on
- Indicates the groundwater level measured on July 19, 2006
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Notes:

- The soil boring was advanced on date using air rotary drilling techniques.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from below ground surface. (bgs)

Boring Log Details

Soil Boring SB-4

Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

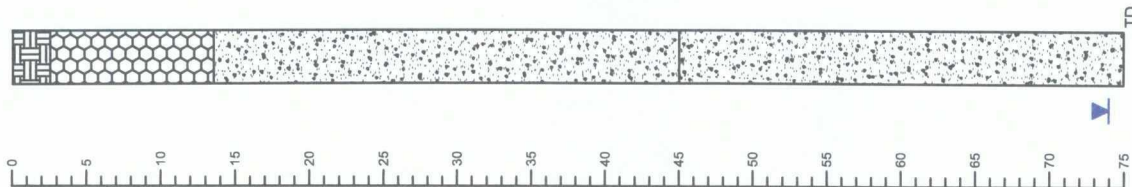
Basin Environmental Services

Prep By: CDS
 Date: June 11, 2008
 Checked By: CDS

Soil Boring SB-5

Soil Description

Depth (feet) Soil Columns PID Petroleum Odor Petroleum Stain



2.5 - 13.5' - Caliche

13.5 - 45' - Sand, white to brown, very fine grained, well sorted, dry

45 - 75' - Sand, red to brown, very fine grained, well sorted, dry

Soil Boring Details

Date Drilled July 19, 2006
 Thickness of Bentonite Seal 75 Ft
 Depth of Exploratory Boring 75 Ft
 Depth to Groundwater 74 Ft
 Ground Water Elevation



Indicates the PSH level measured on



Indicates the groundwater level measured on July 19, 2006



Indicates samples selected for Laboratory Analysis.

PID

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

Notes:

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- 3.) The depths indicated are referenced from below ground surface (bgs)

Boring Log Details

Soil Boring SB-5

Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

Basin Environmental Services

Prep By: CDS

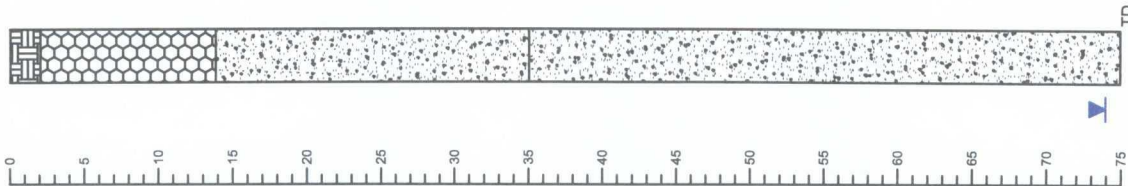
Checked By: CDS

Date: June 11, 2008

Soil Boring SB-6

Soil Description

Depth (feet) Soil Columns PID Reading Petroleum Odor Petroleum Stain



0-14'	458	Heavy	Moderate
14-35'	973	Heavy	Moderate
35-75'	759	Moderate	None
	521	None	None
	351	None	None
	390	None	None
	46.6	None	None
	94.7	None	None
	97.1	Moderate	None
	212	Moderate	None
	444	Moderate	None
	394	Moderate	None
	237	Moderate	None
	36.6		
75	27.2		

Soil Boring Details

Date Drilled July 20, 2006
 Thickness of Bentonite Seal 75 Ft
 Depth of Exploratory Boring 75 Ft
 Depth to Groundwater 74 Ft
 Ground Water Elevation

- Indicates the PSH level measured on
- Indicates the groundwater level measured on July 20, 2006
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Notes:

- The soil boring was advanced on date using air rotary drilling techniques.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from below ground surface (bgs)

Boring Log Details

Soil Boring SB-6

Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

Basin Environmental Services

Prep By: CDS
 Date: June 11, 2008
 Checked By: CDS

Soil Boring SB-7

Soil Description

Depth (feet)	Soil Columns	PID Reading	Petroleum Odor	Petroleum Stain
0		2.5	None	None
5		1.5	None	None
10		5.1	None	None
15		3.9	None	None
20		4.4	None	None
25		2.8	None	None
30	TD			

Soil Boring Details

Date Drilled July 20, 2006
 Thickness of Bentonite Seal 30 Ft
 Depth of Exploratory Boring 30 Ft
 Depth to Groundwater _____
 Ground Water Elevation _____



Indicates the PSH level measured on _____



Indicates the groundwater level measured on _____



Indicates samples selected for Laboratory Analysis.

PID

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

Notes:

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- 3.) The depths indicated are referenced from below ground surface. (bgs)

Boring Log Details

Soil Boring SB-7

Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

Basin Environmental Services

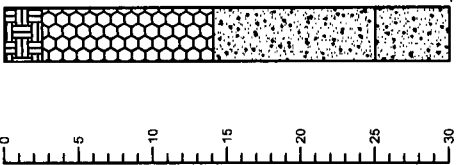
Prep By: CDS

Checked By: CDS

Date: June 11, 2006

Soil Boring SB-8

Soil Description

Depth (feet)	Soil Columns	PID Reading	Petroleum Odor	Petroleum Stain
0		3.9	None	None
5		7.9	None	None
10		9.1	None	None
15		9.3	None	None
20		9.0	None	None
25		7.1	None	None
30				

2.5 - 14' - Caliche

14 - 25' - Sand, white to brown, very fine grained, well sorted, dry

25 - 30' - Sand, red to brown, very fine grained, well sorted, dry

Soil Boring Details

Date Drilled: July 20, 2006
 Thickness of Bentonite Seal: 30 Ft
 Depth of Exploratory Boring: 30 Ft
 Depth to Groundwater: _____
 Ground Water Elevation: _____

- ☒ Indicates the PSH level measured on _____
- ☒ Indicates the groundwater level measured on _____
- ☐ Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Notes:

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- 3.) The depths indicated are referenced from below ground surface (bgs)

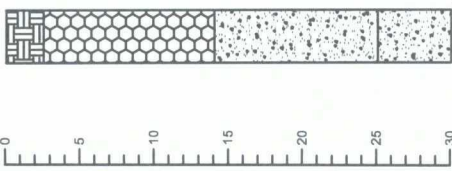
Boring Log Details
 Soil Boring SB-8
 Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

Basin Environmental Services

Prep By: CDS
 Date: June 11, 2008
 Checked By: CDS

Soil Boring SB-8

Soil Description

Depth (feet)	Soil Columns	PID Reading	Petroleum Odor	Petroleum Stain
0		3.9	None	None
5		7.9	None	None
10		9.1	None	None
15		9.3	None	None
20		9.0	None	None
25		7.1	None	None
30				

Soil Boring Details

Date Drilled July 20, 2006
 Thickness of Bentonite Seal 30 Ft
 Depth of Exploratory Boring 30 Ft
 Depth to Groundwater _____
 Ground Water Elevation _____



Indicates the PSH level measured on _____



Indicates the groundwater level measured on _____



Indicates samples selected for Laboratory Analysis.

PID

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

Notes:

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- 3.) The depths indicated are referenced from below ground surface (bgs)


Boring Log Details
 Soil Boring SB-8
 Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

Basin Environmental Services

Prep By: CDS
 Date: June 11, 2008
 Checked By: CDS

Soil Boring SB-9

Soil Description

Depth (feet)	Soil Columns	PID Reading	Petroleum Odor	Petroleum Stain
0		5.4	None	None
5		5.1	None	None
10		7.2	None	None
15		5.8	None	None
20		5.9	None	None
25		5.9	None	None
30				

Soil Boring Details

Date Drilled July 20, 2006
 Thickness of Bentonite Seal 30 Ft
 Depth of Exploratory Boring 30 Ft
 Depth to Groundwater _____
 Ground Water Elevation _____



Indicates the PSH level measured on _____



Indicates the groundwater level measured on _____



Indicates samples selected for Laboratory Analysis.

PID

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

Notes:

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- 3.) The depths indicated are referenced from below ground surface. (bgs)

Boring Log Details

Soil Boring SB-9

Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

Basin Environmental Services

Prep By: CDS

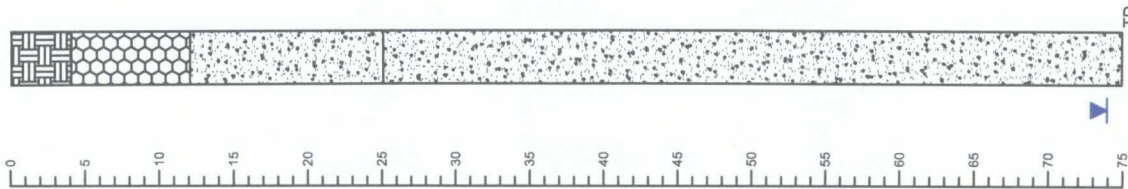
Checked By: CDS

Date: June 11, 2008

Soil Boring SB-10

Soil Description

Depth (feet) Soil Columns PID Petroleum Odor Stain



528	Heavy	Moderate
1,369	Heavy	None
1,396	Heavy	None
1,398	Heavy	None
1,409	Moderate	None
990	Moderate	None
699	Moderate	None
633	Moderate	None
293	Moderate	None
495	Moderate	None
588	Moderate	None
564	Moderate	None
723	Moderate	None
88.8	Moderate	None
54.6	None	None

Soil Boring Details

Date Drilled July 24, 2006
 Thickness of Bentonite Seal 75 Ft
 Depth of Exploratory Boring 75 Ft
 Depth to Groundwater 74 Ft
 Ground Water Elevation

- Indicates the PSH level measured on July 24, 2006
- Indicates the groundwater level measured on July 24, 2006
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Notes:

- The soil boring was advanced on date using air rotary drilling techniques.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from below ground surface. (bgs)

Boring Log Details

Soil Boring SB-10

Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

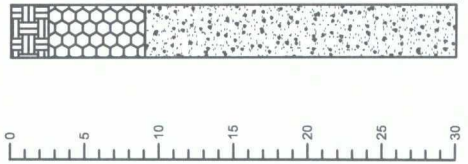
Basin Environmental Services

Prep By: CDS
 Date: June 11, 2006
 Checked By: CDS

Soil Boring SB-11

Soil Description

Depth (feet) 0 5 10 15 20 25 30



Soil Columns	PID Reading	Petroleum Odor	Petroleum Stain
	3.4	None	None
	4.4	None	None
	4.2	None	None
	5.5	None	None
	5.6	None	None
	5.6	None	None

Soil Boring Details

Date Drilled July 24, 2006
 Thickness of Bentonite Seal 30 Ft
 Depth of Exploratory Boring 30 Ft
 Depth to Groundwater _____
 Ground Water Elevation _____



Indicates the PSH level measured on _____



Indicates the groundwater level measured on _____



Indicates samples selected for Laboratory Analysis.

PID

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

Notes:

- 1.) The soil boring was advanced on date using air rotary drilling techniques.
- 2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- 3.) The depths indicated are referenced from below ground surface (bgs)

























































Boring Log Details
 Soil Boring SB-11
 Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

Basin Environmental Services

Prep By: CDS
 Date: June 11, 2008
 Checked By: CDS

Soil Description

Depth (feet) 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 88 TD

Soil Columns	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
	0.0	None	None	2 - 13' - Caliche
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	13 - 25' - Sand, white to brown, very fine grained, well sorted, dry
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	
	0.0	None	None	

25 - 88' - Sand, red to brown, very fine grained, well sorted, dry

Monitor Well MW-1

Monitor Well Details

Date Drilled September 11, 2006
 Thickness of Bentonite Seal 58 Ft
 Length of PVC Well Screen 25 Ft
 Depth of PVC Well 88 Ft
 Depth of Exploratory Well 88 Ft
 Depth to Groundwater 76 Ft
 Ground Water Elevation



- Indicates the PSH level measured on September 11, 2006
- Indicates the groundwater level measured on September 11, 2006
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- The monitor well was installed on date using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from below ground surface. (bgs)

Monitor Well Details
 Monitor Well MW-1
 Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

Basin Environmental Services

Prep By: CDS
 Date: June 11, 2008
 Checked By: CDS

11070

Date Drilled	September 11, 2006
Thickness of Bentonite Seal	58 Ft
Length of PVC Well Screen	25 Ft
Depth of PVC Well	88 Ft
Depth of Exploratory Well	88 Ft
Depth to Groundwater	76 Ft
Ground Water Elevation	



Indicates the PSH level measured on

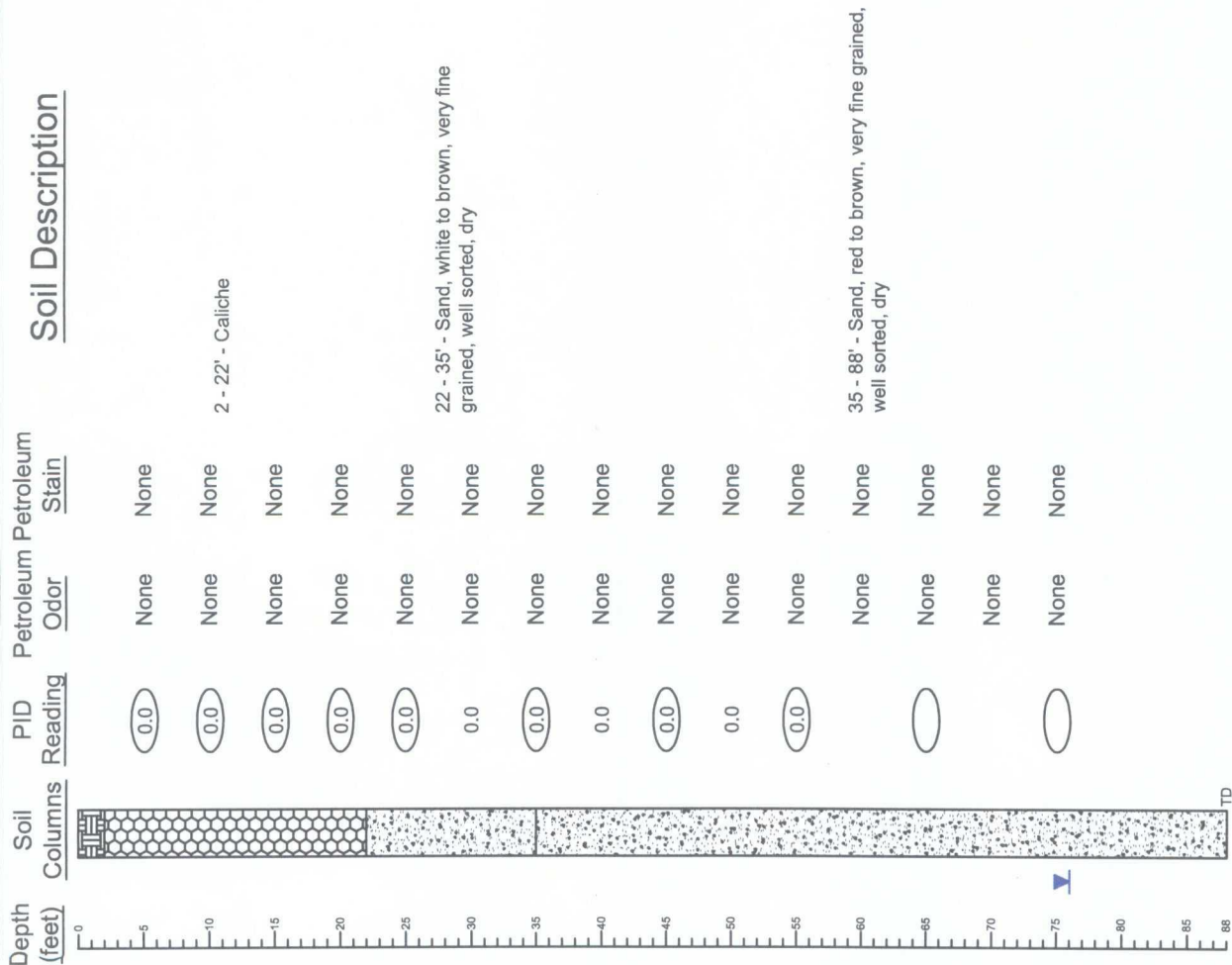
Indicates the groundwater level measured on September 11, 2006

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, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover 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 below ground surface. (bgs)



Monitor Well Details
Monitor Well MW-2
Lovington Gathering WTI Lea County, New Mexico
Plains Marketing, L.P.

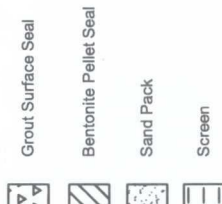
Basin Environmental Services

Prep By: CDS	Checked By: CDS
Date: June 11, 2008	

Monitor Well MW-3

Monitor Well Details

Date Drilled September 12, 2006
 Thickness of Bentonite Seal 58 Ft
 Length of PVC Well Screen 25 Ft
 Depth of PVC Well 88 Ft
 Depth of Exploratory Well 88 Ft
 Depth to Groundwater 76 Ft
 Ground Water Elevation



- Indicates the PSH level measured on September 12, 2006
- Indicates the groundwater level measured on September 12, 2006
- 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, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover 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 below ground surface. (bgs)

Soil Description

Depth (feet) Soil Columns PID Reading Petroleum Odor Petroleum Stain



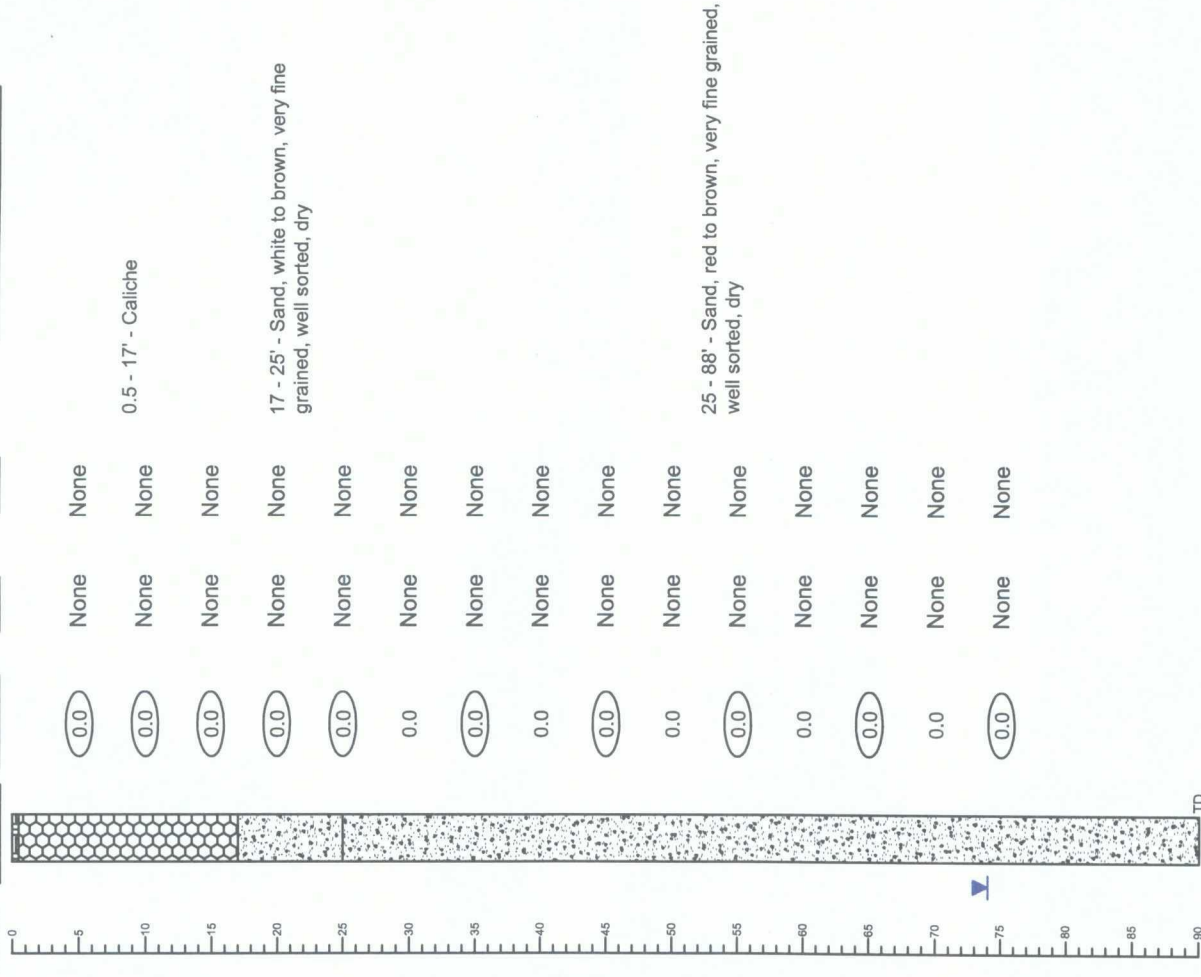
Monitor Well Details
 Monitor Well MW-3
 Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

Basin Environmental Services

Prep By: CDS
 Date: June 11, 2008
 Checked By: CDS

Soil Description

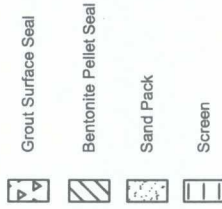
Depth (feet) Soil Columns PID Reading Petroleum Odor Stain



Monitor Well MW-4

Monitor Well Details

Date Drilled November 22, 2006
 Thickness of Bentonite Seal 60 Ft
 Length of PVC Well Screen 25 Ft
 Depth of PVC Well 90 Ft
 Depth of Exploratory Well 90 Ft
 Depth to Groundwater 74 Ft
 Ground Water Elevation



Indicates the PSH level measured on November 22, 2006
 Indicates the groundwater level measured on November 22, 2006
 Indicates samples selected for Laboratory Analysis.
 PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- The monitor well was installed on date using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from below ground surface. (bgs)

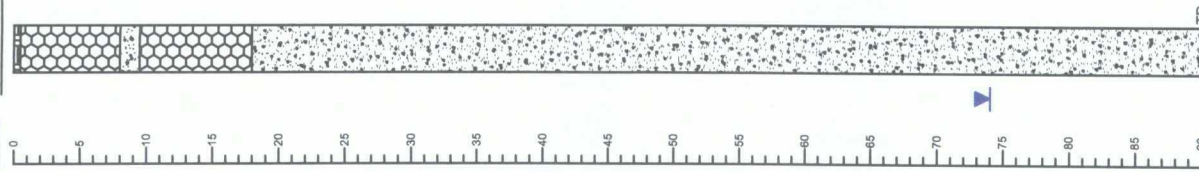
Monitor Well Details
 Monitor Well MW-4
 Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

Basin Environmental Services

Prep By: CDS
 Date: June 11, 2008
 Checked By: CDS

Depth
(feet)Soil
ColumnsPID
ReadingPetroleum
OdorPetroleum
Stain

Soil Description



0.5 - 8' - Caliche

8 - 9.5' - Sand, red to brown, very fine grained,
well sorted, dry

9.5 - 18' - Caliche

8 - 90' - Sand, red to brown, very fine grained,
well sorted, dry

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

None

0.0

0.0

0.0

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0.0

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0.0

0.0

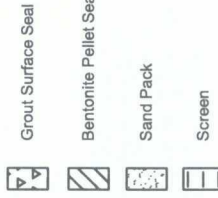
0.0

0.0

Monitor Well MW-5

Monitor Well Details

Date Drilled November 27, 2006
Thickness of Bentonite Seal 60 Ft
Length of PVC Well Screen 25 Ft
Depth of PVC Well 90 Ft
Depth of Exploratory Well 90 Ft
Depth to Groundwater 74 Ft
Ground Water Elevation



Indicates the PSH level measured on
Indicates the groundwater level measured on November 27, 2006
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, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover 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 below ground surface. (bgs)

Monitor Well Details
Monitor Well MW-5
Lovington Gathering WTI Lea County, New Mexico
Plains Marketing, L.P.




Basin Environmental Services

Prep By: CDS
Checked By: CDS
Date: June 11, 2008

1100

<u>(feet)</u>	<u>Columns</u>	<u>Reading</u>	<u>Odor</u>	<u>Stain</u>
0-1				
1-2				
2-3				
3-4				
4-5				
5-6				
6-7				
7-8				
8-9				
9-10				

Layer	Material	Thickness (mm)	Unit Weight (kN/m³)	Volume (m³)	Weight (kN)
1	Asphalt Concrete	50	24	1.00	24.00
2	Concrete	100	24	2.00	48.00
3	Concrete	100	24	2.00	48.00
4	Concrete	100	24	2.00	48.00
5	Concrete	100	24	2.00	48.00
6	Concrete	100	24	2.00	48.00
7	Concrete	100	24	2.00	48.00
8	Concrete	100	24	2.00	48.00
9	Concrete	100	24	2.00	48.00
10	Concrete	100	24	2.00	48.00
11	Concrete	100	24	2.00	48.00
12	Concrete	100	24	2.00	48.00
13	Concrete	100	24	2.00	48.00
14	Concrete	100	24	2.00	48.00
15	Concrete	100	24	2.00	48.00
16	Concrete	100	24	2.00	48.00
17	Concrete	100	24	2.00	48.00
18	Concrete	100	24	2.00	48.00
19	Concrete	100	24	2.00	48.00
20	Concrete	100	24	2.00	48.00
21	Concrete	100	24	2.00	48.00
22	Concrete	100	24	2.00	48.00
23	Concrete	100	24	2.00	48.00
24	Concrete	100	24	2.00	48.00
25	Concrete	100	24	2.00	48.00
26	Concrete	100	24	2.00	48.00
27	Concrete	100	24	2.00	48.00
28	Concrete	100	24	2.00	48.00
29	Concrete	100	24	2.00	48.00
30	Concrete	100	24	2.00	48.00
31	Concrete	100	24	2.00	48.00
32	Concrete	100	24	2.00	48.00
33	Concrete	100	24	2.00	48.00
34	Concrete	100	24	2.00	48.00
35	Concrete	100	24	2.00	48.00
36	Concrete	100	24	2.00	48.00
37	Concrete	100	24	2.00	48.00
38	Concrete	100	24	2.00	48.00
39	Concrete	100	24	2.00	48.00
40	Concrete	100	24	2.00	48.00
41	Concrete	100	24	2.00	48.00
42	Concrete	100	24	2.00	48.00
43	Concrete	100	24	2.00	48.00
44	Concrete	100	24	2.00	48.00
45	Concrete	100	24	2.00	48.00
46	Concrete	100	24	2.00	48.00
47	Concrete	100	24	2.00	48.00
48	Concrete	100	24	2.00	48.00
49	Concrete	100	24	2.00	48.00
50	Concrete	100	24	2.00	48.00
51	Concrete	100	24	2.00	48.00
52	Concrete	100	24	2.00	48.00
53	Concrete	100	24	2.00	48.00
54	Concrete	100	24	2.00	48.00
55	Concrete	100	24	2.00	48.00
56	Concrete	100	24	2.00	48.00
57	Concrete	100	24	2.00	48.00
58	Concrete	100	24	2.00	48.00
59	Concrete	100	24	2.00	48.00
60	Concrete	100	24	2.00	48.00
61	Concrete	100	24	2.00	48.00
62	Concrete	100	24	2.00	48.00
63	Concrete	100	24	2.00	48.00
64	Concrete	100	24	2.00	48.00
65	Concrete	100	24	2.00	48.00
66	Concrete	100	24	2.00	48.00
67	Concrete	100	24	2.00	48.00

	Indicates the PSH level measured on _____
	Indicates the groundwater level measured on <u>November 27, 2006</u>
	Indicates samples selected for Laboratory Analysis.
PID	Head-space reading in ppm obtained with a photo-ionization detector.

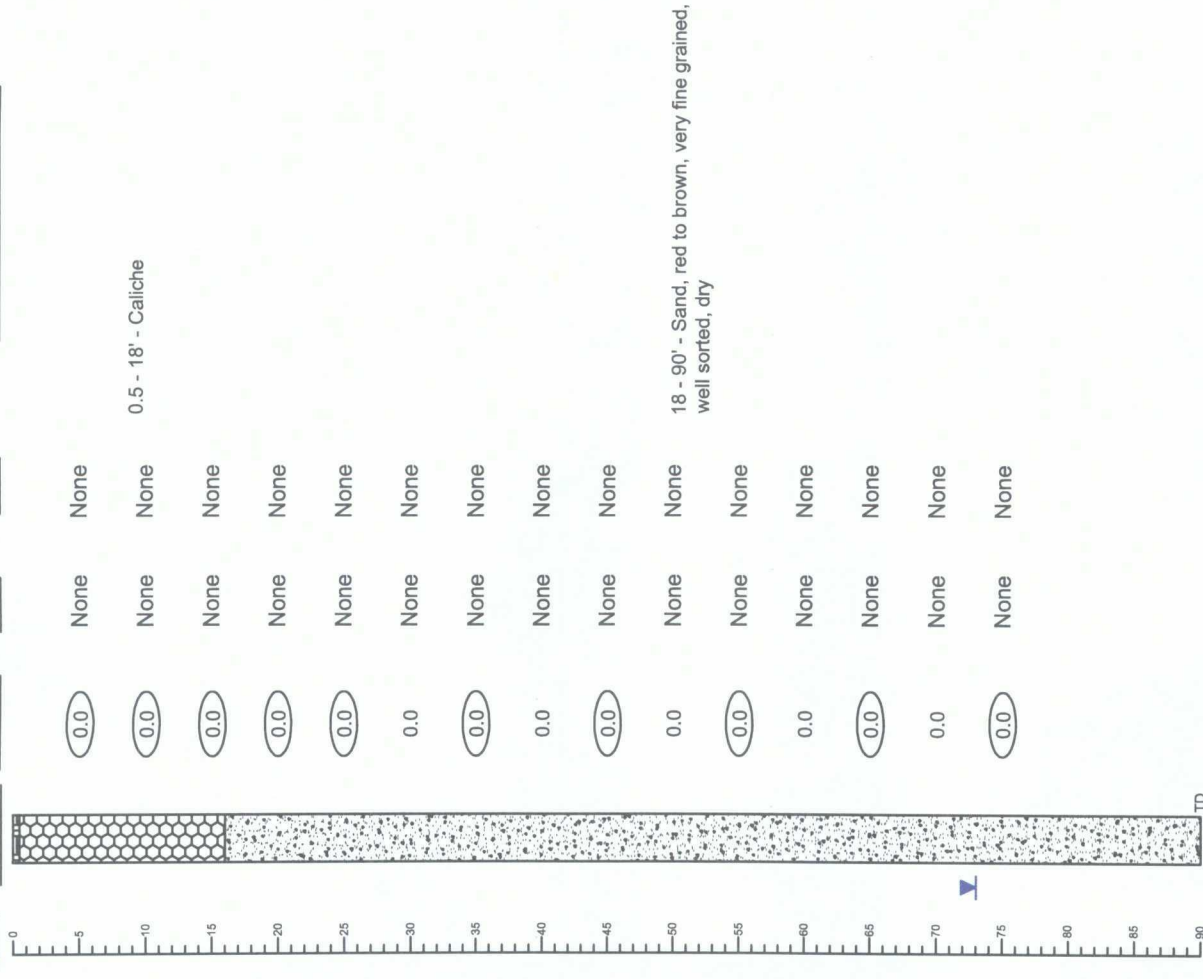
1. The monitor well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from below ground surface (bgs)

Basin Environmental Services

Prep By: CDS	Checked By: CDS
Date: June 11, 2008	

Soil Description

Depth (feet) Soil Columns PID Reading Petroleum Odor Petroleum Stain



Monitor Well MW-7

Monitor Well Details

Date Drilled November 28, 2006
 Thickness of Bentonite Seal 60 Ft
 Length of PVC Well Screen 25 Ft
 Depth of PVC Well 90 Ft
 Depth of Exploratory Well 90 Ft
 Depth to Groundwater 73 Ft
 Ground Water Elevation



- Indicates the PSH level measured on _____
- Indicates the groundwater level measured on November 28, 2006
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- The monitor well was installed on date using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from below ground surface. (bgs)

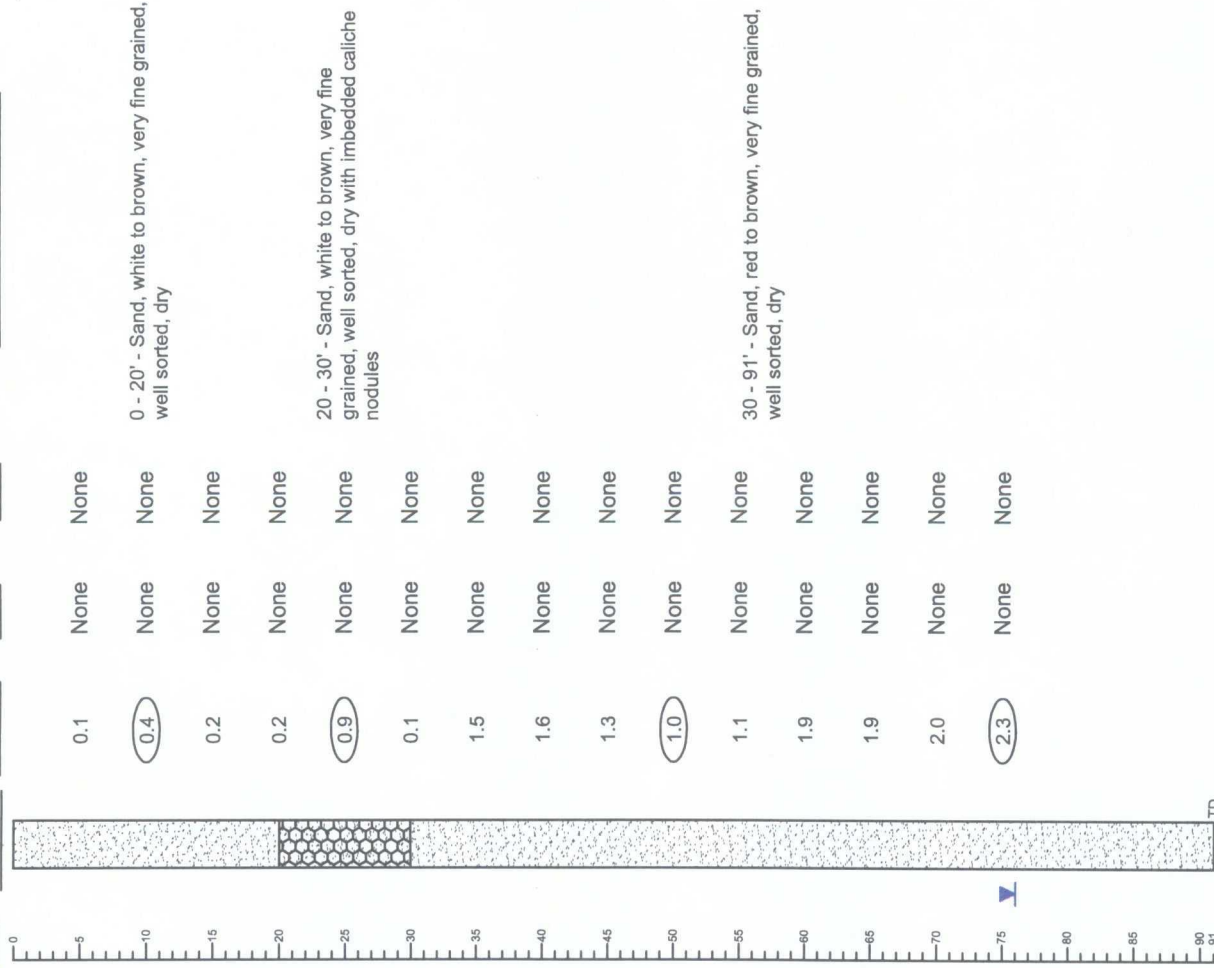
Monitor Well Details
 Monitor Well MW-7
 Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

Basin Environmental Services

Prep By: CDS Checked By: CDS
 Date: June 11, 2008

Soil Description

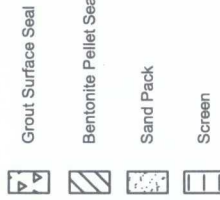
Depth (feet) Soil Columns PID Petroleum Odor Stain



Monitor Well MW-8

Monitor Well Details

Date Drilled February 7, 2007
 Thickness of Bentonite Seal 56 Ft
 Length of PVC Well Screen 30 Ft
 Depth of PVC Well 91 Ft
 Depth of Exploratory Well 91 Ft
 Depth to Groundwater 76 Ft
 Ground Water Elevation



- Indicates the PSH level measured on February 7, 2007
- Indicates the groundwater level measured on February 7, 2007
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- The monitor well was installed on date using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from below ground surface. (bgs)

Monitor Well Details
 Monitor Well MW-8

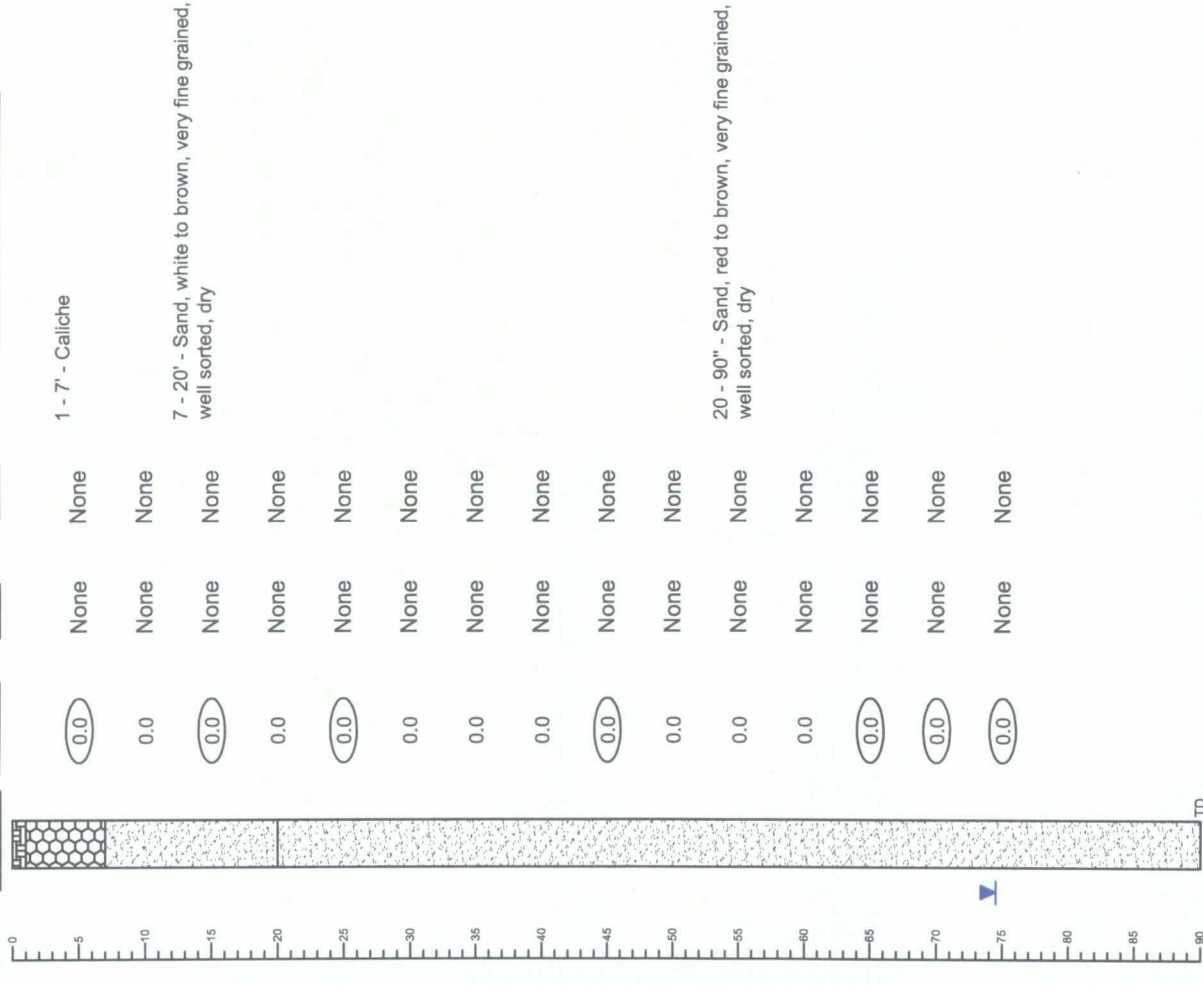
Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

Basin Environmental Services

Prep By: CDS
 Date: June 11, 2008
 Checked By: CDS

Soil Description

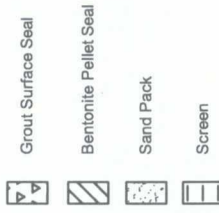
Depth (feet) Soil Columns PID Reading Petroleum Odor Stain



Monitor Well MW-9

Monitor Well Details

Date Drilled August 13, 2007
 Thickness of Bentonite Seal 55 Ft
 Length of PVC Well Screen 30 Ft
 Depth of PVC Well 90 Ft
 Depth of Exploratory Well 90 Ft
 Depth to Groundwater 74.5 Ft
 Ground Water Elevation



- Indicates the PSH level measured on August 13, 2007
- Indicates the groundwater level measured on August 13, 2007
- Indicates samples selected for Laboratory Analysis.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

- The monitor well was installed on date using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from below ground surface. (bgs)

Monitor Well Details
 Monitor Well MW-9
 Lovington Gathering WTI Lea County, New Mexico
 Plains Marketing, L.P.

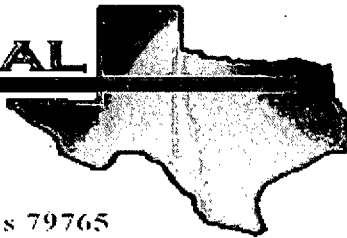
Basin Environmental Services

Prep By: CDS
 Date: June 11, 2008
 Checked By: CDS

Appendix B
Laboratory Reports

Appendix C
Release Notification and Corrective Action
(Form C-141)

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lovington Gathering WTI

Project Number: SRS: 2006-142

Location: Lea County, NM

Lab Order Number: 6G20010

Report Date: 07/28/06

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 5'	6G20010-01	Soil	2006-07-18 14:41	2006-07-20 15:20
SB-1 10'	6G20010-02	Soil	2006-07-18 14:46	2006-07-20 15:20
SB-1 20'	6G20010-03	Soil	2006-07-18 14:52	2006-07-20 15:20
SB-1 30'	6G20010-04	Soil	2006-07-18 14:59	2006-07-20 15:20
SB-2 5'	6G20010-05	Soil	2006-07-18 15:23	2006-07-20 15:20
SB-2 10'	6G20010-06	Soil	2006-07-18 15:26	2006-07-20 15:20
SB-2 20'	6G20010-07	Soil	2006-07-18 15:32	2006-07-20 15:20
SB-2 30'	6G20010-08	Soil	2006-07-18 15:42	2006-07-20 15:20

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 5' (6G20010-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62407	07/24/06	07/24/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.0 %	80-120		"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	mg/kg dry	1	EG62602	07/25/06	07/26/06	EPA 8015M	J
Carbon Ranges C6-C12	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		102 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		85.8 %	70-130		"	"	"	"	
SB-1 10' (6G20010-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62407	07/24/06	07/24/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	80-120		"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	mg/kg dry	1	EG62602	07/25/06	07/26/06	EPA 8015M	J
Carbon Ranges C6-C12	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		102 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		87.0 %	70-130		"	"	"	"	
SB-1 20' (6G20010-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62407	07/24/06	07/24/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	80-120		"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	mg/kg dry	1	EG62604	07/26/06	07/26/06	EPA 8015M	J

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 20' (6G20010-03) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62604	07/26/06	07/26/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		108 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		101 %	70-130		"	"	"	"	
SB-1 30' (6G20010-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62408	07/24/06	07/24/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		114 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	80-120		"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	mg/kg dry	1	EG62604	07/26/06	07/26/06	EPA 8015M	J
Carbon Ranges C6-C12	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		117 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		108 %	70-130		"	"	"	"	
SB-2 5' (6G20010-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62408	07/24/06	07/24/06	EPA 8021B	
Toluene	J [0.0179]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	J [0.0171]	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	0.0655	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		104 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.0 %	80-120		"	"	"	"	
Total Hydrocarbon nC6-nC35	442	10.0	mg/kg dry	1	EG62604	07/26/06	07/26/06	EPA 8015M	J
Carbon Ranges C6-C12	27.3	10.0	"	"	"	"	"	"	
Carbon Ranges C12-C28	375	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	39.7	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		117 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		115 %	70-130		"	"	"	"	

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 10' (6G20010-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62408	07/24/06	07/24/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		83.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.0 %	80-120		"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	mg/kg dry	1	EG62604	07/26/06	07/26/06	EPA 8015M	J
Carbon Ranges C6-C12	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		118 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		112 %	70-130		"	"	"	"	
SB-2 20' (6G20010-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62408	07/24/06	07/24/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	J [0.0226]	0.0250	"	"	"	"	"	"	J
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.2 %	80-120		"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	mg/kg dry	1	EG62604	07/26/06	07/26/06	EPA 8015M	J
Carbon Ranges C6-C12	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		119 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		112 %	70-130		"	"	"	"	
SB-2 30' (6G20010-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62408	07/24/06	07/24/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-120		"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	mg/kg dry	1	EG62604	07/26/06	07/26/06	EPA 8015M	J

Environmental Lab of Texas

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Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 30' (6G20010-08) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62604	07/26/06	07/26/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		116 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		111 %	70-130		"	"	"	"	

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General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 5' (6G20010-01) Soil									
% Moisture	5.3	0.1	%	1	EG62111	07/21/06	07/21/06	% calculation	
SB-1 10' (6G20010-02) Soil									
% Moisture	2.7	0.1	%	1	EG62111	07/21/06	07/21/06	% calculation	
SB-1 20' (6G20010-03) Soil									
% Moisture	5.6	0.1	%	1	EG62111	07/21/06	07/21/06	% calculation	
SB-1 30' (6G20010-04) Soil									
% Moisture	3.2	0.1	%	1	EG62111	07/21/06	07/21/06	% calculation	
SB-2 5' (6G20010-05) Soil									
% Moisture	2.1	0.1	%	1	EG62111	07/21/06	07/21/06	% calculation	
SB-2 10' (6G20010-06) Soil									
% Moisture	4.7	0.1	%	1	EG62111	07/21/06	07/21/06	% calculation	
SB-2 20' (6G20010-07) Soil									
% Moisture	6.8	0.1	%	1	EG62111	07/21/06	07/21/06	% calculation	
SB-2 30' (6G20010-08) Soil									
% Moisture	5.0	0.1	%	1	EG62111	07/21/06	07/21/06	% calculation	

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62407 - EPA 5030C (GC)

Blank (EG62407-BLK1)

Prepared & Analyzed: 07/24/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	41.3		ug/kg	40.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	35.2		"	40.0		88.0	80-120			

LCS (EG62407-BS1)

Prepared & Analyzed: 07/24/06

Benzene	1.33	0.0250	mg/kg wet	1.25		106	80-120			
Toluene	1.32	0.0250	"	1.25		106	80-120			
Ethylbenzene	1.20	0.0250	"	1.25		96.0	80-120			
Xylene (p/m)	2.85	0.0250	"	2.50		114	80-120			
Xylene (o)	1.37	0.0250	"	1.25		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.3		ug/kg	40.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	38.8		"	40.0		97.0	80-120			

Calibration Check (EG62407-CCV1)

Prepared & Analyzed: 07/24/06

Benzene	49.4		ug/kg	50.0		98.8	80-120			
Toluene	53.1		"	50.0		106	80-120			
Ethylbenzene	50.8		"	50.0		102	80-120			
Xylene (p/m)	109		"	100		109	80-120			
Xylene (o)	53.6		"	50.0		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.8		"	40.0		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	37.5		"	40.0		93.8	80-120			

Matrix Spike (EG62407-MS1)

Source: 6G20004-01

Prepared & Analyzed: 07/24/06

Benzene	1.66	0.0250	mg/kg dry	1.59	ND	104	80-120			
Toluene	1.73	0.0250	"	1.59	ND	109	80-120			
Ethylbenzene	1.62	0.0250	"	1.59	ND	102	80-120			
Xylene (p/m)	3.62	0.0250	"	3.18	ND	114	80-120			
Xylene (o)	1.77	0.0250	"	1.59	ND	111	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.1		ug/kg	40.0		97.8	80-120			
Surrogate: 4-Bromofluorobenzene	41.2		"	40.0		103	80-120			

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Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62407 - EPA 5030C (GC)

Matrix Spike Dup (EG62407-MSD1)

Source: 6G20004-01

Prepared & Analyzed: 07/24/06

Benzene	1.69	0.0250	mg/kg dry	1.59	ND	106	80-120	1.90	20	
Toluene	1.68	0.0250	"	1.59	ND	106	80-120	2.79	20	
Ethylbenzene	1.68	0.0250	"	1.59	ND	106	80-120	3.85	20	
Xylene (p/m)	3.66	0.0250	"	3.18	ND	115	80-120	0.873	20	
Xylene (o)	1.75	0.0250	"	1.59	ND	110	80-120	0.905	20	
Surrogate: a,a,a-Trifluorotoluene	37.6		ug/kg	40.0		94.0	80-120			
Surrogate: 4-Bromofluorobenzene	40.5		"	40.0		101	80-120			

Batch EG62408 - EPA 5030C (GC)

Blank (EG62408-BLK1)

Prepared & Analyzed: 07/24/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	38.9		ug/kg	40.0		97.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.3		"	40.0		88.2	80-120			

LCS (EG62408-BS1)

Prepared & Analyzed: 07/24/06

Benzene	1.31	0.0250	mg/kg wet	1.25		105	80-120			
Toluene	1.30	0.0250	"	1.25		104	80-120			
Ethylbenzene	1.24	0.0250	"	1.25		99.2	80-120			
Xylene (p/m)	2.78	0.0250	"	2.50		111	80-120			
Xylene (o)	1.36	0.0250	"	1.25		109	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.7		ug/kg	40.0		94.2	80-120			
Surrogate: 4-Bromofluorobenzene	38.7		"	40.0		96.8	80-120			

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62408 - EPA 5030C (GC)

Calibration Check (EG62408-CCV1)

Prepared: 07/24/06 Analyzed: 07/25/06

Benzene	52.5		ug/kg	50.0		105	80-120			
Toluene	51.2		"	50.0		102	80-120			
Ethylbenzene	48.9		"	50.0		97.8	80-120			
Xylene (p/m)	106		"	100		106	80-120			
Xylene (o)	52.8		"	50.0		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.8		"	40.0		97.0	80-120			
Surrogate: 4-Bromofluorobenzene	38.5		"	40.0		96.2	80-120			

Matrix Spike (EG62408-MS1)

Source: 6G20013-01

Prepared: 07/24/06 Analyzed: 07/25/06

Benzene	1.46	0.0250	mg/kg dry	1.40	ND	104	80-120			
Toluene	1.45	0.0250	"	1.40	ND	104	80-120			
Ethylbenzene	1.42	0.0250	"	1.40	ND	101	80-120			
Xylene (p/m)	3.14	0.0250	"	2.80	ND	112	80-120			
Xylene (o)	1.51	0.0250	"	1.40	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.6		ug/kg	40.0		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	38.0		"	40.0		95.0	80-120			

Matrix Spike Dup (EG62408-MSD1)

Source: 6G20013-01

Prepared: 07/24/06 Analyzed: 07/25/06

Benzene	1.53	0.0250	mg/kg dry	1.40	ND	109	80-120	4.69	20	
Toluene	1.53	0.0250	"	1.40	ND	109	80-120	4.69	20	
Ethylbenzene	1.48	0.0250	"	1.40	ND	106	80-120	4.83	20	
Xylene (p/m)	3.33	0.0250	"	2.80	ND	119	80-120	6.06	20	
Xylene (o)	1.62	0.0250	"	1.40	ND	116	80-120	7.14	20	
Surrogate: a,a,a-Trifluorotoluene	38.2		ug/kg	40.0		95.5	80-120			
Surrogate: 4-Bromofluorobenzene	40.4		"	40.0		101	80-120			

Batch EG62602 - Solvent Extraction (GC)

Blank (EG62602-BLK1)

Prepared: 07/25/06 Analyzed: 07/26/06

Total Hydrocarbon nC6-nC35	ND	10.0	mg/kg wet							J
Carbon Ranges C6-C12	ND	10.0	"							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	46.0		mg/kg	50.0		92.0	70-130			
Surrogate: 1-Chlorooctadecane	37.2		"	50.0		74.4	70-130			

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Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62602 - Solvent Extraction (GC)

LCS (EG62602-BS1)

Prepared: 07/25/06 Analyzed: 07/26/06

Total Hydrocarbon nC6-nC35	1020	10.0	mg/kg wet	1000		102	75-125			J
Carbon Ranges C6-C12	492	10.0	"	500		98.4	75-125			
Carbon Ranges C12-C28	529	10.0	"	500		106	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	57.4		mg/kg	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	41.2		"	50.0		82.4	70-130			

Calibration Check (EG62602-CCV1)

Prepared: 07/25/06 Analyzed: 07/26/06

Total Hydrocarbon nC6-nC35	501		mg/kg wet	500		100	80-120			J
Carbon Ranges C6-C12	208		"	250		83.2	80-120			
Carbon Ranges C12-C28	293		"	250		117	80-120			
Surrogate: 1-Chlorooctane	59.7		mg/kg	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	56.1		"	50.0		112	70-130			

Matrix Spike (EG62602-MS1)

Source: 6G20009-01

Prepared: 07/25/06 Analyzed: 07/26/06

Total Hydrocarbon nC6-nC35	996	10.0	mg/kg dry	1030	ND	96.7	75-125			J
Carbon Ranges C6-C12	476	10.0	"	515	ND	92.4	75-125			
Carbon Ranges C12-C28	520	10.0	"	515	ND	101	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Surrogate: 1-Chlorooctane	57.9		mg/kg	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	58.1		"	50.0		116	70-130			

Matrix Spike Dup (EG62602-MSD1)

Source: 6G20009-01

Prepared: 07/25/06 Analyzed: 07/26/06

Total Hydrocarbon nC6-nC35	1010	10.0	mg/kg dry	1030	ND	98.1	75-125	1.40	20	J
Carbon Ranges C6-C12	481	10.0	"	515	ND	93.4	75-125	1.04	20	
Carbon Ranges C12-C28	528	10.0	"	515	ND	103	75-125	1.53	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	57.3		mg/kg	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	57.3		"	50.0		115	70-130			

Environmental Lab of Texas

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Page 10 of 14

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EG62604 - Solvent Extraction (GC)

Blank (EG62604-BLK1)

Prepared & Analyzed: 07/26/06

Total Hydrocarbon nC6-nC35	ND	10.0	mg/kg wet							J
Carbon Ranges C6-C12	ND	10.0	"							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	45.2		"	50.0		90.4	70-130			

LCS (EG62604-BS1)

Prepared & Analyzed: 07/26/06

Total Hydrocarbon nC6-nC35	968	10.0	mg/kg wet	1000		96.8	75-125			J
Carbon Ranges C6-C12	512	10.0	"	500		102	75-125			
Carbon Ranges C12-C28	457	10.0	"	500		91.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Surrogate: 1-Chlorooctane	56.7		mg/kg	50.0		113	70-130			
Surrogate: 1-Chlorooctadecane	48.6		"	50.0		97.2	70-130			

Calibration Check (EG62604-CCV1)

Prepared & Analyzed: 07/26/06

Total Hydrocarbon nC6-nC35	469		mg/kg	500		93.8	80-120			J
Carbon Ranges C6-C12	248		"	250		99.2	80-120			
Carbon Ranges C12-C28	220		"	250		88.0	80-120			
Surrogate: 1-Chlorooctane	59.4		"	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	62.4		"	50.0		125	70-130			

Matrix Spike (EG62604-MS1)

Source: 6G20010-03

Prepared & Analyzed: 07/26/06

Total Hydrocarbon nC6-nC35	1050	10.0	mg/kg dry	1060	ND	99.1	75-125			J
Carbon Ranges C6-C12	569	10.0	"	530	ND	107	75-125			
Carbon Ranges C12-C28	482	10.0	"	530	ND	90.9	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Surrogate: 1-Chlorooctane	60.1		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	55.4		"	50.0		111	70-130			

Environmental Lab of Texas

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Page 11 of 14

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EG62604 - Solvent Extraction (GC)

Matrix Spike Dup (EG62604-MSD1)

Source: 6G20010-03

Prepared & Analyzed: 07/26/06

Total Hydrocarbon nC6-nC35	1060	10.0	mg/kg dry	1060	ND	100	75-125	0.948	20	J
Carbon Ranges C6-C12	565	10.0	"	530	ND	107	75-125	0.705	20	
Carbon Ranges C12-C28	495	10.0	"	530	ND	93.4	75-125	2.66	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Surrogate: 1-Chlorooctane	56.5		mg/kg	50.0		113	70-130			
Surrogate: 1-Chlorooctadecane	55.5		"	50.0		111	70-130			

Environmental Lab of Texas

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Page 12 of 14

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EG62111 - General Preparation (Prep)

Blank (EG62111-BLK1)

Prepared: 07/20/06 Analyzed: 07/21/06

% Solids	100	%
----------	-----	---

Duplicate (EG62111-DUP1)

Source: 6G20001-01

Prepared: 07/20/06 Analyzed: 07/21/06

% Solids	95.9	%	95.9	0.00	20
----------	------	---	------	------	----

Duplicate (EG62111-DUP2)

Source: 6G20003-15

Prepared & Analyzed: 07/21/06

% Solids	88.0	%	87.5	0.570	20
----------	------	---	------	-------	----

Duplicate (EG62111-DUP3)

Source: 6G20014-09

Prepared & Analyzed: 07/21/06

% Solids	86.7	%	86.7	0.00	20
----------	------	---	------	------	----

Duplicate (EG62111-DUP4)

Source: 6G20013-04

Prepared & Analyzed: 07/21/06

% Solids	93.6	%	93.6	0.00	20
----------	------	---	------	------	----

Environmental Lab of Texas

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Page 13 of 14

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

7/28/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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Page 14 of 14

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton

Project Name: Lovington Gathering WTI

Company Name: Basin Environmental Service Technologies, LLC

Project #: SRS: 2006-142

Company Address: P. O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: PAA/C. Reynolds

Telephone No: (505) 441-2124

Fax No: (505) 336-1429

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Ken Dutton

e-mail: kdutton@basinenv.com

(lab use only)

ORDER #:

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

No. of Containers

Matrix

Preservation & # of Containers

TCPL:

TOTAL:

Analyze For:

LAB # (lab use only)

SB-1 5'

SB-1 10'

SB-1 20'

SB-1 30'

SB-2 5'

SB-2 10'

SB-2 20'

SB-2 30'

Standard TAT

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

TPH: 418.1 (8015M) 1005 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, CO₃, HCO₃)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX 802 (B, 5, 0, 3) or BTEX 8260

RCI

N.O.R.M.

Special Instructions:

Laboratory Comments:

Relinquished by: Ken Dutton

Date: 20 Jul 06

Time: 12:04

Received by: Julia Backlund

Date: 20 Jul 06

Time: 12:04

Relinquished by: Julia Backlund

Date: 20 Jul 06

Time: 12:04

Received by: Ken Dutton

Date: 20 Jul 06

Time: 12:04

Relinquished by: Ken Dutton

Date: 20 Jul 06

Time: 12:04

Received by: Julia Backlund

Date: 20 Jul 06

Time: 12:04

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Date: 20 Jul 06

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Relinquished by: Ken Dutton

Date: 20 Jul 06

Time: 12:04

Received by: Julia Backlund

Date: 20 Jul 06

Time: 12:04

Relinquished by: Julia Backlund

Date: 20 Jul 06

Time: 12:04

Received by: Ken Dutton

Date: 20 Jul 06

Time: 12:04

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Plains
Date/ Time: 7/20/06 3:20
Lab ID #: 662006
Initials: UK

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	Yes	No	1.5 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

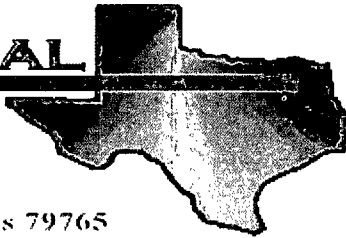
Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

<input type="checkbox"/>	See attached e-mail/ fax
<input type="checkbox"/>	Client understands and would like to proceed with analysis
<input type="checkbox"/>	Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lovington Gathering WTI

Project Number: SRS: 2006-142

Location: Lea County, NM

Lab Order Number: 6G24009

Report Date: 08/01/06

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-3 5'	6G24009-01	Soil	2006-07-19 09:26	2006-07-24 13:35
SB-3 10'	6G24009-02	Soil	2006-07-19 09:30	2006-07-24 13:35
SB-3 15'	6G24009-03	Soil	2006-07-19 09:34	2006-07-24 13:35
SB-3 20'	6G24009-04	Soil	2006-07-19 09:39	2006-07-24 13:35
SB-3 25'	6G24009-05	Soil	2006-07-19 09:41	2006-07-24 13:35
SB-3 35'	6G24009-06	Soil	2006-07-19 10:06	2006-07-24 13:35
SB-3 45'	6G24009-07	Soil	2006-07-19 10:10	2006-07-24 13:35
SB-3 55'	6G24009-08	Soil	2006-07-19 10:22	2006-07-24 13:35
SB-3 65'	6G24009-09	Soil	2006-07-19 10:30	2006-07-24 13:35
SB-3 75'	6G24009-10	Soil	2006-07-19 10:42	2006-07-24 13:35
SB-4 5'	6G24009-11	Soil	2006-07-19 11:41	2006-07-24 13:35
SB-4 10'	6G24009-12	Soil	2006-07-19 11:44	2006-07-24 13:35
SB-4 15'	6G24009-13	Soil	2006-07-19 11:50	2006-07-24 13:35
SB-4 20'	6G24009-14	Soil	2006-07-19 11:52	2006-07-24 13:35
SB-4 25'	6G24009-15	Soil	2006-07-19 11:55	2006-07-24 13:35
SB-4 35'	6G24009-16	Soil	2006-07-19 13:35	2006-07-24 13:35
SB-4 45'	6G24009-17	Soil	2006-07-19 13:39	2006-07-24 13:35
SB-4 55'	6G24009-18	Soil	2006-07-19 14:20	2006-07-24 13:35
SB-4 65'	6G24009-19	Soil	2006-07-19 14:26	2006-07-24 13:35
SB-4 75'	6G24009-20	Soil	2006-07-19 14:33	2006-07-24 13:35
SB-5 5'	6G24009-21	Soil	2006-07-19 16:00	2006-07-24 13:35
SB-5 10'	6G24009-22	Soil	2006-07-19 16:02	2006-07-24 13:35
SB-5 15'	6G24009-23	Soil	2006-07-19 16:05	2006-07-24 13:35
SB-5 20'	6G24009-24	Soil	2006-07-19 16:08	2006-07-24 13:35
SB-5 25'	6G24009-25	Soil	2006-07-19 16:10	2006-07-24 13:35
SB-5 35'	6G24009-26	Soil	2006-07-19 16:16	2006-07-24 13:35
SB-5 45'	6G24009-27	Soil	2006-07-19 16:20	2006-07-24 13:35
SB-5 55'	6G24009-28	Soil	2006-07-19 16:24	2006-07-24 13:35
SB-5 65'	6G24009-29	Soil	2006-07-19 16:30	2006-07-24 13:35
SB-5 75'	6G24009-30	Soil	2006-07-19 16:38	2006-07-24 13:35
SB-6 5'	6G24009-31	Soil	2006-07-20 10:44	2006-07-24 13:35
SB-6 10'	6G24009-32	Soil	2006-07-20 10:48	2006-07-24 13:35
SB-6 15'	6G24009-33	Soil	2006-07-20 10:50	2006-07-24 13:35
SB-6 20'	6G24009-34	Soil	2006-07-20 10:54	2006-07-24 13:35

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-6 25'	6G24009-35	Soil	2006-07-20 10:56	2006-07-24 13:35
SB-6 35'	6G24009-36	Soil	2006-07-20 11:10	2006-07-24 13:35
SB-6 45'	6G24009-37	Soil	2006-07-20 11:14	2006-07-24 13:35
SB-6 55'	6G24009-38	Soil	2006-07-20 11:57	2006-07-24 13:35
SB-6 65'	6G24009-39	Soil	2006-07-20 12:04	2006-07-24 13:35
SB-6 75'	6G24009-40	Soil	2006-07-20 12:12	2006-07-24 13:35
SB-7 5'	6G24009-41	Soil	2006-07-20 14:14	2006-07-24 13:35
SB-7 10'	6G24009-42	Soil	2006-07-20 14:18	2006-07-24 13:35
SB-7 20'	6G24009-43	Soil	2006-07-20 14:25	2006-07-24 13:35
SB-7 30'	6G24009-44	Soil	2006-07-20 14:30	2006-07-24 13:35
SB-8 5'	6G24009-45	Soil	2006-07-20 15:07	2006-07-24 13:35
SB-8 10'	6G24009-46	Soil	2006-07-20 15:15	2006-07-24 13:35
SB-8 20'	6G24009-47	Soil	2006-07-20 15:25	2006-07-24 13:35
SB-8 30'	6G24009-48	Soil	2006-07-20 15:35	2006-07-24 13:35

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 5' (6G24009-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		85.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.0 %	80-120		"	"	"	"	
Total Hydrocarbon nC6-nC35	1060	10.0	mg/kg dry	1	EG62615	07/26/06	07/27/06	EPA 8015M	J
Carbon Ranges C6-C12	43.6	10.0	"	"	"	"	"	"	
Carbon Ranges C12-C28	853	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	168	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		97.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		136 %	70-130		"	"	"	"	S-04
SB-3 10' (6G24009-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	J [0.0233]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	0.174	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.232	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0523	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		85.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	80-120		"	"	"	"	
Total Hydrocarbon nC6-nC35	2430	10.0	mg/kg dry	1	EG62615	07/26/06	07/27/06	EPA 8015M	J
Carbon Ranges C6-C12	225	10.0	"	"	"	"	"	"	
Carbon Ranges C12-C28	1990	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	214	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		108 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		140 %	70-130		"	"	"	"	S-04
SB-3 15' (6G24009-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	J [0.0178]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	0.0442	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0931	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0306	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		83.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	152	10.0	mg/kg dry	1	EG62716	07/27/06	07/27/06	EPA 8015M	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 15' (6G24009-03) Soil									
Carbon Ranges C12-C28	1780	10.0	mg/kg dry	1	EG62716	07/27/06	07/27/06	EPA 8015M	
Carbon Ranges C28-C35	179	10.0	"	"	"	"	"	"	
Total Hydrocarbons	2110	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		105 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		172 %	70-130		"	"	"	"	S-04
SB-3 20' (6G24009-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	J [0.0139]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	0.0361	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0639	0.0250	"	"	"	"	"	"	
Xylene (o)	J [0.0209]	0.0250	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		89.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	153	10.0	mg/kg dry	1	EG62716	07/27/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	1830	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	182	10.0	"	"	"	"	"	"	
Total Hydrocarbons	2160	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		105 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		173 %	70-130		"	"	"	"	S-04
SB-3 25' (6G24009-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		91.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62716	07/27/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	76.9	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	J [2.49]	10.0	"	"	"	"	"	"	J
Total Hydrocarbons	76.9	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		101 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		128 %	70-130		"	"	"	"	

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 35' (6G24009-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		85.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [6.25]	10.0	mg/kg dry	1	EG62716	07/27/06	07/27/06	EPA 8015M	J
Carbon Ranges C12-C28	154	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	16.2	10.0	"	"	"	"	"	"	
Total Hydrocarbons	170	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		129 %	70-130		"	"	"	"	
SB-3 45' (6G24009-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		85.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [2.54]	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	J
Carbon Ranges C12-C28	371	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	38.8	10.0	"	"	"	"	"	"	
Total Hydrocarbons	410	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		99.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		103 %	70-130		"	"	"	"	
SB-3 55' (6G24009-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		83.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [9.73]	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	J

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 55' (6G24009-08) Soil									
Carbon Ranges C12-C28	719	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C28-C35	85.9	10.0	"	"	"	"	"	"	
Total Hydrocarbons	805	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		96.0 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		109 %	70-130		"	"	"	"	
SB-3 65' (6G24009-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		90.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	15.0	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	492	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	48.8	10.0	"	"	"	"	"	"	
Total Hydrocarbons	556	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		94.0 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		99.0 %	70-130		"	"	"	"	
SB-3 75' (6G24009-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0361	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		90.2 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [2.28]	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	J
Carbon Ranges C12-C28	40.7	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	40.7	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		93.2 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		89.8 %	70-130		"	"	"	"	

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 5' (6G24009-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		91.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [4.97]	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	J
Carbon Ranges C12-C28	239	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	31.5	10.0	"	"	"	"	"	"	
Total Hydrocarbons	270	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		92.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		89.4 %	70-130		"	"	"	"	
SB-4 10' (6G24009-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	0.0290	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.164	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.552	0.0250	"	"	"	"	"	"	
Xylene (o)	0.132	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	98.6	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	786	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	50.2	10.0	"	"	"	"	"	"	
Total Hydrocarbons	935	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		100 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.4 %	70-130		"	"	"	"	
SB-4 15' (6G24009-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	J [0.0204]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	0.0668	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.160	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0826	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	133	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	

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1301 S. County Road 1150
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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB-4 15' (6G24009-13) Soil

Carbon Ranges C12-C28	1220	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C28-C35	136	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1490	10.0	"	"	"	"	"	"	

Surrogate: 1-Chlorooctane 100 % 70-130 " " " "

Surrogate: 1-Chlorooctadecane 109 % 70-130 " " " "

SB-4 20' (6G24009-14) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	0.0689	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.112	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.257	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0697	0.0250	"	"	"	"	"	"	

Surrogate: a,a,a-Trifluorotoluene 87.0 % 80-120 " " " "

Surrogate: 4-Bromofluorobenzene 107 % 80-120 " " " "

Carbon Ranges C6-C12	101	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	932	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	92.0	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1120	10.0	"	"	"	"	"	"	

Surrogate: 1-Chlorooctane 106 % 70-130 " " " "

Surrogate: 1-Chlorooctadecane 111 % 70-130 " " " "

SB-4 25' (6G24009-15) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0265	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	

Surrogate: a,a,a-Trifluorotoluene 85.8 % 80-120 " " " "

Surrogate: 4-Bromofluorobenzene 81.5 % 80-120 " " " "

Carbon Ranges C6-C12	65.9	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	1320	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	172	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1560	10.0	"	"	"	"	"	"	

Surrogate: 1-Chlorooctane 95.4 % 70-130 " " " "

Surrogate: 1-Chlorooctadecane 95.8 % 70-130 " " " "

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 35' (6G24009-16) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	46.4	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	954	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	89.1	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1090	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		85.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		104 %	70-130		"	"	"	"	
SB-4 45' (6G24009-17) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62607	07/26/06	07/26/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		91.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	29.5	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	883	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	97.9	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1010	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		92.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		103 %	70-130		"	"	"	"	
SB-4 55' (6G24009-18) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62702	07/27/06	07/27/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		80.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	80.5	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	

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Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB-4 55' (6G24009-18) Soil

Carbon Ranges C12-C28	1440	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C28-C35	201	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1720	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		94.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		98.8 %	70-130		"	"	"	"	

SB-4 65' (6G24009-19) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG62702	07/27/06	07/27/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0251	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		92.2 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	56.0	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	1070	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	129	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1260	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		98.0 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		118 %	70-130		"	"	"	"	

SB-4 75' (6G24009-20) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG62702	07/27/06	07/27/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [7.69]	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	J
Carbon Ranges C12-C28	253	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	28.3	10.0	"	"	"	"	"	"	
Total Hydrocarbons	281	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		96.2 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		95.2 %	70-130		"	"	"	"	

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB-5 5' (6G24009-21) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG62702	07/27/06	07/27/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	18.3	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	536	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	128	10.0	"	"	"	"	"	"	
Total Hydrocarbons	682	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		90.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		87.8 %	70-130		"	"	"	"	

SB-5 10' (6G24009-22) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG62702	07/27/06	07/27/06	EPA 8021B	
Toluene	0.116	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.730	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.884	0.0250	"	"	"	"	"	"	
Xylene (o)	0.447	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		106 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		133 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	322	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	1880	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	213	10.0	"	"	"	"	"	"	
Total Hydrocarbons	2420	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		117 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		100 %	70-130		"	"	"	"	

SB-5 15' (6G24009-23) Soil

Benzene	J [0.00904]	0.0250	mg/kg dry	25	EG62702	07/27/06	07/27/06	EPA 8021B	J
Toluene	0.186	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.744	0.0250	"	"	"	"	"	"	
Xylene (p/m)	2.12	0.0250	"	"	"	"	"	"	
Xylene (o)	1.01	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		117 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		120 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	450	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB-5 15' (6G24009-23) Soil

Carbon Ranges C12-C28	2300	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C28-C35	277	10.0	"	"	"	"	"	"	
Total Hydrocarbons	3030	10.0	"	"	"	"	"	"	

Surrogate: 1-Chlorooctane	108 %	70-130	"	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane	106 %	70-130	"	"	"	"	"	"	

SB-5 20' (6G24009-24) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG62702	07/27/06	07/27/06	EPA 8021B	
Toluene	0.135	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.479	0.0250	"	"	"	"	"	"	
Xylene (p/m)	1.01	0.0250	"	"	"	"	"	"	
Xylene (o)	0.633	0.0250	"	"	"	"	"	"	

Surrogate: a,a,a-Trifluorotoluene	107 %	80-120	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	124 %	80-120	"	"	"	"	"	"	S-04

Carbon Ranges C6-C12	343	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	1910	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	238	10.0	"	"	"	"	"	"	
Total Hydrocarbons	2490	10.0	"	"	"	"	"	"	

Surrogate: 1-Chlorooctane	101 %	70-130	"	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane	96.4 %	70-130	"	"	"	"	"	"	

SB-5 25' (6G24009-25) Soil

Benzene	J [0.00831]	0.0250	mg/kg dry	25	EG62702	07/27/06	07/27/06	EPA 8021B	J
Toluene	0.0979	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.263	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.519	0.0250	"	"	"	"	"	"	
Xylene (o)	0.326	0.0250	"	"	"	"	"	"	

Surrogate: a,a,a-Trifluorotoluene	103 %	80-120	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	80-120	"	"	"	"	"	"	

Carbon Ranges C6-C12	266	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	1480	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	186	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1930	10.0	"	"	"	"	"	"	

Surrogate: 1-Chlorooctane	102 %	70-130	"	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane	99.6 %	70-130	"	"	"	"	"	"	

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Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-5 35' (6G24009-26) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/27/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	J [0.0155]	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	0.0449	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	60.8	10.0	mg/kg dry	1	EG62614	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	1050	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	146	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1260	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		98.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		115 %	70-130		"	"	"	"	
SB-5 45' (6G24009-27) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/27/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		98.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	71.4	10.0	mg/kg dry	1	EG62716	07/27/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	1320	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	150	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1540	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		121 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		195 %	70-130		"	"	"	"	S-04
SB-5 55' (6G24009-28) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/27/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0263	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	135	10.0	mg/kg dry	1	EG62716	07/27/06	07/27/06	EPA 8015M	

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

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Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB-5 55' (6G24009-28) Soil

Carbon Ranges C12-C28	1770	10.0	mg/kg dry	1	EG62716	07/27/06	07/27/06	EPA 8015M	
Carbon Ranges C28-C35	181	10.0	"	"	"	"	"	"	
Total Hydrocarbons	2090	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		122 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		204 %	70-130		"	"	"	"	S-04

SB-5 65' (6G24009-29) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/27/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		82.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		85.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	29.9	10.0	mg/kg dry	1	EG62716	07/27/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	625	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	72.3	10.0	"	"	"	"	"	"	
Total Hydrocarbons	727	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		112 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		167 %	70-130		"	"	"	"	S-04

SB-5 75' (6G24009-30) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/27/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		81.2 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		81.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	10.4	10.0	mg/kg dry	1	EG62716	07/27/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	88.5	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	J [4.74]	10.0	"	"	"	"	"	"	J
Total Hydrocarbons	98.9	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		94.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		86.8 %	70-130		"	"	"	"	

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-6 5' (6G24009-31) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/28/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0291	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		85.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	78.8	10.0	mg/kg dry	1	EG62716	07/27/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	1270	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	191	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1540	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		122 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		169 %	70-130		"	"	"	"	S-04
SB-6 10' (6G24009-32) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/28/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	J [0.0211]	0.0250	"	"	"	"	"	"	J
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	158	10.0	mg/kg dry	1	EG62716	07/27/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	2130	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	219	10.0	"	"	"	"	"	"	
Total Hydrocarbons	2510	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		123 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		210 %	70-130		"	"	"	"	S-04
SB-6 15' (6G24009-33) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/28/06	EPA 8021B	
Toluene	J [0.0118]	0.0250	"	"	"	"	"	"	J
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0306	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	81.5	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-6 15' (6G24009-33) Soil									
Carbon Ranges C12-C28	1210	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C28-C35	151	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1440	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		101 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		117 %	70-130		"	"	"	"	
SB-6 20' (6G24009-34) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/28/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		85.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	23.1	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	822	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	104	10.0	"	"	"	"	"	"	
Total Hydrocarbons	949	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		99.6 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		112 %	70-130		"	"	"	"	
SB-6 25 (6G24009-35) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/28/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		81.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		81.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [9.06]	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	J
Carbon Ranges C12-C28	640	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	73.9	10.0	"	"	"	"	"	"	
Total Hydrocarbons	714	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		100 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		110 %	70-130		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-6 35' (6G24009-36) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/28/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		84.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	174	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	19.7	10.0	"	"	"	"	"	"	
Total Hydrocarbons	194	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		98.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		97.4 %	70-130		"	"	"	"	
SB-6 45' (6G24009-37) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/28/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		86.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [2.62]	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	J
Carbon Ranges C12-C28	574	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	75.2	10.0	"	"	"	"	"	"	
Total Hydrocarbons	649	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		102 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		110 %	70-130		"	"	"	"	
SB-6 55' (6G24009-38) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/28/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	24.8	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-6 55' (6G24009-38) Soil									
Carbon Ranges C12-C28	1130	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C28-C35	161	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1320	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		104 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		127 %	70-130		"	"	"	"	
SB-6 65' (6G24009-39) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/28/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		89.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	12.4	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	719	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	79.1	10.0	"	"	"	"	"	"	
Total Hydrocarbons	810	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		98.0 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		111 %	70-130		"	"	"	"	
SB-6 75' (6G24009-40) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/28/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		96.2 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [1.68]	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	J
Carbon Ranges C12-C28	15.5	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	15.5	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		96.6 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		94.2 %	70-130		"	"	"	"	

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Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-7 5' (6G24009-41) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/28/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		94.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	J [1.71]	10.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		95.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		94.2 %	70-130		"	"	"	"	

SB-7 10' (6G24009-42) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/28/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		98.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		95.0 %	70-130		"	"	"	"	

SB-7 20' (6G24009-43) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/28/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB-7 20' (6G24009-43) Soil

Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	

Surrogate: 1-Chlorooctane 98.4 % 70-130 " " " "

Surrogate: 1-Chlorooctadecane 95.2 % 70-130 " " " "

SB-7 30' (6G24009-44) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/28/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	

Surrogate: a,a,a-Trifluorotoluene 109 % 80-120 " " " "

Surrogate: 4-Bromofluorobenzene 101 % 80-120 " " " "

Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	

Surrogate: 1-Chlorooctane 106 % 70-130 " " " "

Surrogate: 1-Chlorooctadecane 103 % 70-130 " " " "

SB-8 5' (6G24009-45) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG62805	07/27/06	07/28/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	

Surrogate: a,a,a-Trifluorotoluene 112 % 80-120 " " " "

Surrogate: 4-Bromofluorobenzene 93.0 % 80-120 " " " "

Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	

Surrogate: 1-Chlorooctane 101 % 70-130 " " " "

Surrogate: 1-Chlorooctadecane 98.6 % 70-130 " " " "

Environmental Lab of Texas

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Plains All American EH & S
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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-8 10' (6G24009-46) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		98.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		108 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		105 %	70-130		"	"	"	"	
SB-8 20' (6G24009-47) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		96.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.2 %	70-130		"	"	"	"	
SB-8 30' (6G24009-48) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		93.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-8 30' (6G24009-48) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		98.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		95.0 %	70-130		"	"	"	"	

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General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 5' (6G24009-01) Soil									
% Moisture	6.3	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-3 10' (6G24009-02) Soil									
% Moisture	4.2	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-3 15' (6G24009-03) Soil									
% Moisture	6.6	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-3 20' (6G24009-04) Soil									
% Moisture	7.3	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-3 25' (6G24009-05) Soil									
% Moisture	6.2	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-3 35' (6G24009-06) Soil									
% Moisture	5.4	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-3 45' (6G24009-07) Soil									
% Moisture	5.7	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-3 55' (6G24009-08) Soil									
% Moisture	3.9	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-3 65' (6G24009-09) Soil									
% Moisture	5.6	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-3 75' (6G24009-10) Soil									
% Moisture	5.1	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-4 5' (6G24009-11) Soil									
% Moisture	5.2	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 10' (6G24009-12) Soil									
% Moisture	8.9	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-4 15' (6G24009-13) Soil									
% Moisture	11.9	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-4 20' (6G24009-14) Soil									
% Moisture	9.2	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-4 25' (6G24009-15) Soil									
% Moisture	7.9	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-4 35' (6G24009-16) Soil									
% Moisture	4.8	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-4 45' (6G24009-17) Soil									
% Moisture	4.7	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-4 55' (6G24009-18) Soil									
% Moisture	4.3	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-4 65' (6G24009-19) Soil									
% Moisture	3.6	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-4 75' (6G24009-20) Soil									
% Moisture	3.8	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-5 5' (6G24009-21) Soil									
% Moisture	4.1	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-5 10' (6G24009-22) Soil									
% Moisture	7.0	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	

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Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-5 15' (6G24009-23) Soil									
% Moisture	11.1	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-5 20' (6G24009-24) Soil									
% Moisture	6.7	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-5 25' (6G24009-25) Soil									
% Moisture	7.0	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-5 35' (6G24009-26) Soil									
% Moisture	4.2	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-5 45' (6G24009-27) Soil									
% Moisture	3.3	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-5 55' (6G24009-28) Soil									
% Moisture	3.5	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-5 65' (6G24009-29) Soil									
% Moisture	3.5	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-5 75' (6G24009-30) Soil									
% Moisture	6.6	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-6 5' (6G24009-31) Soil									
% Moisture	2.9	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-6 10' (6G24009-32) Soil									
% Moisture	5.2	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-6 15' (6G24009-33) Soil									
% Moisture	7.8	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

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General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-6 20' (6G24009-34) Soil									
% Moisture	7.3	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-6 25 (6G24009-35) Soil									
% Moisture	4.7	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-6 35' (6G24009-36) Soil									
% Moisture	4.2	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-6 45' (6G24009-37) Soil									
% Moisture	3.3	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-6 55' (6G24009-38) Soil									
% Moisture	4.3	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-6 65' (6G24009-39) Soil									
% Moisture	4.0	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-6 75' (6G24009-40) Soil									
% Moisture	6.9	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-7 5' (6G24009-41) Soil									
% Moisture	1.9	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-7 10' (6G24009-42) Soil									
% Moisture	6.8	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-7 20' (6G24009-43) Soil									
% Moisture	6.1	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-7 30' (6G24009-44) Soil									
% Moisture	2.7	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	

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Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-8 5' (6G24009-45) Soil									
% Moisture	2.7	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-8 10' (6G24009-46) Soil									
% Moisture	3.5	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-8 20' (6G24009-47) Soil									
% Moisture	4.9	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	
SB-8 30' (6G24009-48) Soil									
% Moisture	5.0	0.1	%	1	EG62509	07/24/06	07/25/06	% calculation	

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62607 - EPA 5030C (GC)

Blank (EG62607-BLK1)

Prepared & Analyzed: 07/26/06

Benzene	ND	0.0250	mg/kg wet						
Toluene	ND	0.0250	"						
Ethylbenzene	ND	0.0250	"						
Xylene (p/m)	ND	0.0250	"						
Xylene (o)	ND	0.0250	"						
Surrogate: a,a,a-Trifluorotoluene	37.8		ug/kg	40.0		94.5	80-120		
Surrogate: 4-Bromofluorobenzene	36.9		"	40.0		92.2	80-120		

LCS (EG62607-BS1)

Prepared & Analyzed: 07/26/06

Benzene	1.33	0.0250	mg/kg wet	1.25		106	80-120		
Toluene	1.35	0.0250	"	1.25		108	80-120		
Ethylbenzene	1.23	0.0250	"	1.25		98.4	80-120		
Xylene (p/m)	2.86	0.0250	"	2.50		114	80-120		
Xylene (o)	1.38	0.0250	"	1.25		110	80-120		
Surrogate: a,a,a-Trifluorotoluene	39.9		ug/kg	40.0		99.8	80-120		
Surrogate: 4-Bromofluorobenzene	40.7		"	40.0		102	80-120		

Calibration Check (EG62607-CCV1)

Prepared: 07/26/06 Analyzed: 07/27/06

Benzene	54.0		ug/kg	50.0		108	80-120		
Toluene	53.0		"	50.0		106	80-120		
Ethylbenzene	50.7		"	50.0		101	80-120		
Xylene (p/m)	108		"	100		108	80-120		
Xylene (o)	54.6		"	50.0		109	80-120		
Surrogate: a,a,a-Trifluorotoluene	39.7		"	40.0		99.2	80-120		
Surrogate: 4-Bromofluorobenzene	37.8		"	40.0		94.5	80-120		

Matrix Spike (EG62607-MS1)

Source: 6G24009-05

Prepared: 07/26/06 Analyzed: 07/27/06

Benzene	1.44	0.0250	mg/kg dry	1.33	ND	108	80-120		
Toluene	1.42	0.0250	"	1.33	ND	107	80-120		
Ethylbenzene	1.39	0.0250	"	1.33	ND	105	80-120		
Xylene (p/m)	3.02	0.0250	"	2.67	ND	113	80-120		
Xylene (o)	1.44	0.0250	"	1.33	ND	108	80-120		
Surrogate: a,a,a-Trifluorotoluene	35.1		ug/kg	40.0		87.8	80-120		
Surrogate: 4-Bromofluorobenzene	35.0		"	40.0		87.5	80-120		

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Midland TX, 79706-4476

Project: Lovington Gathering WT1
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62607 - EPA 5030C (GC)

Matrix Spike Dup (EG62607-MSD1)

Source: 6G24009-05

Prepared: 07/26/06 Analyzed: 07/27/06

Benzene	1.21	0.0250	mg/kg dry	1.33	ND	91.0	80-120	17.1	20	
Toluene	1.25	0.0250	"	1.33	ND	94.0	80-120	12.9	20	
Ethylbenzene	1.45	0.0250	"	1.33	ND	109	80-120	3.74	20	
Xylene (p/m)	2.64	0.0250	"	2.67	ND	98.9	80-120	13.3	20	
Xylene (o)	1.24	0.0250	"	1.33	ND	93.2	80-120	14.7	20	
Surrogate: a,a,a-Trifluorotoluene	33.4		ug/kg	40.0		83.5	80-120			
Surrogate: 4-Bromofluorobenzene	33.8		"	40.0		84.5	80-120			

Batch EG62614 - Solvent Extraction (GC)

Blank (EG62614-BLK1)

Prepared: 07/26/06 Analyzed: 07/27/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	52.6		mg/kg	50.0		105	70-130			
Surrogate: 1-Chlorooctadecane	51.7		"	50.0		103	70-130			

LCS (EG62614-BS1)

Prepared: 07/26/06 Analyzed: 07/27/06

Carbon Ranges C6-C12	526	10.0	mg/kg wet	500		105	75-125			
Carbon Ranges C12-C28	449	10.0	"	500		89.8	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	975	10.0	"	1000		97.5	75-125			
Surrogate: 1-Chlorooctane	58.3		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	53.1		"	50.0		106	70-130			

Calibration Check (EG62614-CCV1)

Prepared: 07/26/06 Analyzed: 07/27/06

Carbon Ranges C6-C12	257		mg/kg	250		103	80-120			
Carbon Ranges C12-C28	237		"	250		94.8	80-120			
Total Hydrocarbons	494		"	500		98.8	80-120			
Surrogate: 1-Chlorooctane	62.7		"	50.0		125	70-130			
Surrogate: 1-Chlorooctadecane	62.7		"	50.0		125	70-130			

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62614 - Solvent Extraction (GC)

Matrix Spike (EG62614-MS1)

Source: 6G24009-10

Prepared: 07/26/06 Analyzed: 07/27/06

Carbon Ranges C6-C12	518	10.0	mg/kg dry	527	2.28	97.9	75-125			
Carbon Ranges C12-C28	481	10.0	"	527	40.7	83.5	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	999	10.0	"	1050	40.7	91.3	75-125			
Surrogate: 1-Chlorooctane	53.8		mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	48.8		"	50.0		97.6	70-130			

Matrix Spike Dup (EG62614-MSD1)

Source: 6G24009-10

Prepared: 07/26/06 Analyzed: 07/27/06

Carbon Ranges C6-C12	528	10.0	mg/kg dry	527	2.28	99.8	75-125	1.91	20	
Carbon Ranges C12-C28	483	10.0	"	527	40.7	83.9	75-125	0.415	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1010	10.0	"	1050	40.7	92.3	75-125	1.10	20	
Surrogate: 1-Chlorooctane	53.8		mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	48.3		"	50.0		96.6	70-130			

Batch EG62615 - Solvent Extraction (GC)

Blank (EG62615-BLK1)

Prepared: 07/26/06 Analyzed: 07/27/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	49.1		mg/kg	50.0		98.2	70-130			
Surrogate: 1-Chlorooctadecane	43.4		"	50.0		86.8	70-130			

LCS (EG62615-BS1)

Prepared: 07/26/06 Analyzed: 07/27/06

Carbon Ranges C6-C12	522	10.0	mg/kg wet	500		104	75-125			
Carbon Ranges C12-C28	566	10.0	"	500		113	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1090	10.0	"	1000		109	75-125			
Surrogate: 1-Chlorooctane	61.6		mg/kg	50.0		123	70-130			
Surrogate: 1-Chlorooctadecane	47.8		"	50.0		95.6	70-130			

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Plains All American EH & S
1301 S. County Road 1150
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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62615 - Solvent Extraction (GC)

Calibration Check (EG62615-CCV1)

Prepared: 07/26/06 Analyzed: 07/27/06

Carbon Ranges C6-C12	212		mg/kg	250		84.8	80-120			
Carbon Ranges C12-C28	257		"	250		103	80-120			
Total Hydrocarbons	470		"	500		94.0	80-120			
Surrogate: 1-Chlorooctane	60.4		"	50.0		121	70-130			
Surrogate: 1-Chlorooctadecane	56.4		"	50.0		113	70-130			

Matrix Spike (EG62615-MS1)

Source: 6G24006-03

Prepared: 07/26/06 Analyzed: 07/27/06

Carbon Ranges C6-C12	503	10.0	mg/kg dry	518	8.54	95.5	75-125			
Carbon Ranges C12-C28	604	10.0	"	518	80.0	101	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1110	10.0	"	1040	80.0	99.0	75-125			
Surrogate: 1-Chlorooctane	63.1		mg/kg	50.0		126	70-130			
Surrogate: 1-Chlorooctadecane	64.8		"	50.0		130	70-130			

Matrix Spike Dup (EG62615-MSD1)

Source: 6G24006-03

Prepared: 07/26/06 Analyzed: 07/27/06

Carbon Ranges C6-C12	499	10.0	mg/kg dry	518	8.54	94.7	75-125	0.798	20	
Carbon Ranges C12-C28	604	10.0	"	518	80.0	101	75-125	0.00	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1100	10.0	"	1040	80.0	98.1	75-125	0.905	20	
Surrogate: 1-Chlorooctane	61.5		mg/kg	50.0		123	70-130			
Surrogate: 1-Chlorooctadecane	64.3		"	50.0		129	70-130			

Batch EG62616 - Solvent Extraction (GC)

Blank (EG62616-BLK1)

Prepared: 07/26/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	56.8		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	56.0		"	50.0		112	70-130			

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62616 - Solvent Extraction (GC)

LCS (EG62616-BS1)

Prepared: 07/26/06 Analyzed: 07/27/06

Carbon Ranges C6-C12	532	10.0	mg/kg wet	500		106	75-125		
Carbon Ranges C12-C28	443	10.0	"	500		88.6	75-125		
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125		
Total Hydrocarbons	975	10.0	"	1000		97.5	75-125		
Surrogate: 1-Chlorooctane	59.5		mg/kg	50.0		119	70-130		
Surrogate: 1-Chlorooctadecane	53.7		"	50.0		107	70-130		

Calibration Check (EG62616-CCV1)

Prepared: 07/26/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	282		mg/kg	250		113	80-120		
Carbon Ranges C12-C28	249		"	250		99.6	80-120		
Total Hydrocarbons	531		"	500		106	80-120		
Surrogate: 1-Chlorooctane	62.4		"	50.0		125	70-130		
Surrogate: 1-Chlorooctadecane	64.3		"	50.0		129	70-130		

Matrix Spike (EG62616-MS1)

Source: 6G24009-42

Prepared: 07/26/06 Analyzed: 07/27/06

Carbon Ranges C6-C12	554	10.0	mg/kg dry	536	ND	103	75-125		
Carbon Ranges C12-C28	524	10.0	"	536	ND	97.8	75-125		
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		
Total Hydrocarbons	1080	10.0	"	1070	ND	101	75-125		
Surrogate: 1-Chlorooctane	59.4		mg/kg	50.0		119	70-130		
Surrogate: 1-Chlorooctadecane	54.0		"	50.0		108	70-130		

Matrix Spike Dup (EG62616-MSD1)

Source: 6G24009-42

Prepared: 07/26/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	555	10.0	mg/kg dry	536	ND	104	75-125	0.180	20
Carbon Ranges C12-C28	512	10.0	"	536	ND	95.5	75-125	2.32	20
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20
Total Hydrocarbons	1070	10.0	"	1070	ND	100	75-125	0.930	20
Surrogate: 1-Chlorooctane	56.0		mg/kg	50.0		112	70-130		
Surrogate: 1-Chlorooctadecane	52.2		"	50.0		104	70-130		

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62702 - EPA 5030C (GC)

Blank (EG62702-BLK1)

Prepared & Analyzed: 07/27/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	40.6		ug/kg	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	37.7		"	40.0		94.2	80-120			

LCS (EG62702-BS1)

Prepared & Analyzed: 07/27/06

Benzene	1.20	0.0250	mg/kg wet	1.25		96.0	80-120			
Toluene	1.19	0.0250	"	1.25		95.2	80-120			
Ethylbenzene	1.05	0.0250	"	1.25		84.0	80-120			
Xylene (p/m)	2.52	0.0250	"	2.50		101	80-120			
Xylene (o)	1.26	0.0250	"	1.25		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.2		ug/kg	40.0		90.5	80-120			
Surrogate: 4-Bromofluorobenzene	37.5		"	40.0		93.8	80-120			

Calibration Check (EG62702-CCV1)

Prepared & Analyzed: 07/27/06

Benzene	53.2		ug/kg	50.0		106	80-120			
Toluene	51.5		"	50.0		103	80-120			
Ethylbenzene	52.9		"	50.0		106	80-120			
Xylene (p/m)	106		"	100		106	80-120			
Xylene (o)	52.8		"	50.0		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.6		"	40.0		94.0	80-120			
Surrogate: 4-Bromofluorobenzene	36.8		"	40.0		92.0	80-120			

Matrix Spike (EG62702-MS1)

Source: 6G27001-02

Prepared & Analyzed: 07/27/06

Benzene	1.44	0.0250	mg/kg dry	1.38	ND	104	80-120			
Toluene	1.43	0.0250	"	1.38	ND	104	80-120			
Ethylbenzene	1.34	0.0250	"	1.38	ND	97.1	80-120			
Xylene (p/m)	3.03	0.0250	"	2.75	ND	110	80-120			
Xylene (o)	1.47	0.0250	"	1.38	ND	107	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.0		ug/kg	40.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	36.4		"	40.0		91.0	80-120			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62702 - EPA 5030C (GC)

Matrix Spike Dup (EG62702-MSD1)		Source: 6G27001-02		Prepared & Analyzed: 07/27/06						
Benzene	1.39	0.0250	mg/kg dry	1.38	ND	101	80-120	2.93	20	
Toluene	1.38	0.0250	"	1.38	ND	100	80-120	3.92	20	
Ethylbenzene	1.36	0.0250	"	1.38	ND	98.6	80-120	1.53	20	
Xylene (p/m)	2.97	0.0250	"	2.75	ND	108	80-120	1.83	20	
Xylene (o)	1.47	0.0250	"	1.38	ND	107	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	36.0		ug/kg	40.0		90.0	80-120			
Surrogate: 4-Bromofluorobenzene	38.6		"	40.0		96.5	80-120			

Batch EG62716 - Solvent Extraction (GC)

Blank (EG62716-BLK1)		Prepared & Analyzed: 07/27/06								
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0		92.4	70-130			
Surrogate: 1-Chlorooctadecane	42.1		"	50.0		84.2	70-130			

LCS (EG62716-BS1)		Prepared & Analyzed: 07/27/06								
Carbon Ranges C6-C12	500	10.0	mg/kg wet	500		100	75-125			
Carbon Ranges C12-C28	555	10.0	"	500		111	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1050	10.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	60.3		mg/kg	50.0		121	70-130			
Surrogate: 1-Chlorooctadecane	47.8		"	50.0		95.6	70-130			

Calibration Check (EG62716-CCV1)		Prepared: 07/27/06 Analyzed: 07/28/06								
Carbon Ranges C6-C12	206		mg/kg	250		82.4	80-120			
Carbon Ranges C12-C28	260		"	250		104	80-120			
Total Hydrocarbons	466		"	500		93.2	80-120			
Surrogate: 1-Chlorooctane	61.0		"	50.0		122	70-130			
Surrogate: 1-Chlorooctadecane	51.6		"	50.0		103	70-130			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62716 - Solvent Extraction (GC)

Matrix Spike (EG62716-MS1)

Source: 6G26001-18

Prepared: 07/27/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	583	10.0	mg/kg dry	522	ND	112	75-125		
Carbon Ranges C12-C28	591	10.0	"	522	ND	113	75-125		
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		
Total Hydrocarbons	1170	10.0	"	1040	ND	112	75-125		
Surrogate: 1-Chlorooctane	59.7		mg/kg	50.0		119	70-130		
Surrogate: 1-Chlorooctadecane	52.7		"	50.0		105	70-130		

Matrix Spike Dup (EG62716-MSD1)

Source: 6G26001-18

Prepared: 07/27/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	556	10.0	mg/kg dry	522	ND	107	75-125	4.74	20
Carbon Ranges C12-C28	548	10.0	"	522	ND	105	75-125	7.55	20
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20
Total Hydrocarbons	1100	10.0	"	1040	ND	106	75-125	6.17	20
Surrogate: 1-Chlorooctane	63.6		mg/kg	50.0		127	70-130		
Surrogate: 1-Chlorooctadecane	51.2		"	50.0		102	70-130		

Batch EG62805 - EPA 5030C (GC)

Blank (EG62805-BLK1)

Prepared & Analyzed: 07/27/06

Benzene	ND	0.0250	mg/kg wet						
Toluene	ND	0.0250	"						
Ethylbenzene	ND	0.0250	"						
Xylene (p/m)	ND	0.0250	"						
Xylene (o)	ND	0.0250	"						
Surrogate: a,a,a-Trifluorotoluene	36.4		ug/kg	40.0		91.0	80-120		
Surrogate: 4-Bromofluorobenzene	32.6		"	40.0		81.5	80-120		

LCS (EG62805-BS1)

Prepared & Analyzed: 07/27/06

Benzene	1.24	0.0250	mg/kg wet	1.25		99.2	80-120		
Toluene	1.25	0.0250	"	1.25		100	80-120		
Ethylbenzene	1.19	0.0250	"	1.25		95.2	80-120		
Xylene (p/m)	2.67	0.0250	"	2.50		107	80-120		
Xylene (o)	1.34	0.0250	"	1.25		107	80-120		
Surrogate: a,a,a-Trifluorotoluene	39.3		ug/kg	40.0		98.2	80-120		
Surrogate: 4-Bromofluorobenzene	38.1		"	40.0		95.2	80-120		

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62805 - EPA 5030C (GC)

Calibration Check (EG62805-CCV1)

Prepared: 07/27/06 Analyzed: 07/28/06

Benzene	44.1		ug/kg	50.0		88.2	80-120			
Toluene	45.7		"	50.0		91.4	80-120			
Ethylbenzene	45.3		"	50.0		90.6	80-120			
Xylene (p/m)	93.5		"	100		93.5	80-120			
Xylene (o)	46.2		"	50.0		92.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	32.3		"	40.0		80.8	80-120			
Surrogate: 4-Bromofluorobenzene	32.5		"	40.0		81.2	80-120			

Matrix Spike (EG62805-MS1)

Source: 6G24009-45

Prepared: 07/27/06 Analyzed: 07/28/06

Benzene	1.24	0.0250	mg/kg dry	1.28	ND	96.9	80-120			
Toluene	1.40	0.0250	"	1.28	ND	109	80-120			
Ethylbenzene	1.26	0.0250	"	1.28	ND	98.4	80-120			
Xylene (p/m)	3.06	0.0250	"	2.57	ND	119	80-120			
Xylene (o)	1.38	0.0250	"	1.28	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	43.4		ug/kg	40.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	42.1		"	40.0		105	80-120			

Matrix Spike Dup (EG62805-MSD1)

Source: 6G24009-45

Prepared: 07/27/06 Analyzed: 07/28/06

Benzene	1.07	0.0250	mg/kg dry	1.28	ND	83.6	80-120	14.7	20	
Toluene	1.15	0.0250	"	1.28	ND	89.8	80-120	19.3	20	
Ethylbenzene	1.10	0.0250	"	1.28	ND	85.9	80-120	13.6	20	
Xylene (p/m)	2.53	0.0250	"	2.57	ND	98.4	80-120	19.0	20	
Xylene (o)	1.21	0.0250	"	1.28	ND	94.5	80-120	13.3	20	
Surrogate: a,a,a-Trifluorotoluene	32.2		ug/kg	40.0		80.5	80-120			
Surrogate: 4-Bromofluorobenzene	33.4		"	40.0		83.5	80-120			

Batch EG62806 - EPA 5030C (GC)

Blank (EG62806-BLK1)

Prepared: 07/28/06 Analyzed: 07/31/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	36.8		ug/kg	40.0		92.0	80-120			
Surrogate: 4-Bromofluorobenzene	33.3		"	40.0		83.2	80-120			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62806 - EPA 5030C (GC)

LCS (EG62806-BS1)

Prepared & Analyzed: 07/28/06

Benzene	1.03	0.0250	mg/kg wet	1.25		82.4	80-120			
Toluene	1.08	0.0250	"	1.25		86.4	80-120			
Ethylbenzene	1.03	0.0250	"	1.25		82.4	80-120			
Xylene (p/m)	2.36	0.0250	"	2.50		94.4	80-120			
Xylene (o)	1.15	0.0250	"	1.25		92.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	32.2		ug/kg	40.0		80.5	80-120			
Surrogate: 4-Bromofluorobenzene	34.7		"	40.0		86.8	80-120			

Calibration Check (EG62806-CCV1)

Prepared: 07/28/06 Analyzed: 07/31/06

Benzene	0.0513		mg/kg wet	0.0500		103	80-120			
Toluene	0.0498		"	0.0500		99.6	80-120			
Ethylbenzene	0.0520		"	0.0500		104	80-120			
Xylene (p/m)	0.103		"	0.100		103	80-120			
Xylene (o)	0.0508		"	0.0500		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.0		ug/kg	40.0		92.5	80-120			
Surrogate: 4-Bromofluorobenzene	35.2		"	40.0		88.0	80-120			

Matrix Spike (EG62806-MS1)

Source: 6G26001-01

Prepared: 07/28/06 Analyzed: 07/31/06

Benzene	1.33	0.0250	mg/kg dry	1.32	ND	101	80-120			
Toluene	1.33	0.0250	"	1.32	ND	101	80-120			
Ethylbenzene	1.32	0.0250	"	1.32	ND	100	80-120			
Xylene (p/m)	2.89	0.0250	"	2.63	ND	110	80-120			
Xylene (o)	1.43	0.0250	"	1.32	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.4		ug/kg	40.0		86.0	80-120			
Surrogate: 4-Bromofluorobenzene	38.2		"	40.0		95.5	80-120			

Matrix Spike Dup (EG62806-MSD1)

Source: 6G26001-01

Prepared: 07/28/06 Analyzed: 07/31/06

Benzene	1.26	0.0250	mg/kg dry	1.32	ND	95.5	80-120	5.60	20	
Toluene	1.26	0.0250	"	1.32	ND	95.5	80-120	5.60	20	
Ethylbenzene	1.29	0.0250	"	1.32	ND	97.7	80-120	2.33	20	
Xylene (p/m)	2.79	0.0250	"	2.63	ND	106	80-120	3.70	20	
Xylene (o)	1.39	0.0250	"	1.32	ND	105	80-120	2.82	20	
Surrogate: a,a,a-Trifluorotoluene	35.5		ug/kg	40.0		88.8	80-120			
Surrogate: 4-Bromofluorobenzene	40.7		"	40.0		102	80-120			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch EG62509 - General Preparation (Prep)									
Blank (EG62509-BLK1)									
				Prepared: 07/24/06 Analyzed: 07/25/06					
% Solids	100		%						
Duplicate (EG62509-DUP1)									
				Source: 6G21012-01 Prepared: 07/24/06 Analyzed: 07/25/06					
% Solids	95.4		%		95.7		0.314	20	
Duplicate (EG62509-DUP2)									
				Source: 6G24005-01 Prepared: 07/24/06 Analyzed: 07/25/06					
% Solids	97.6		%		97.3		0.308	20	
Duplicate (EG62509-DUP3)									
				Source: 6G24009-17 Prepared: 07/24/06 Analyzed: 07/25/06					
% Solids	95.1		%		95.3		0.210	20	
Duplicate (EG62509-DUP4)									
				Source: 6G24009-37 Prepared: 07/24/06 Analyzed: 07/25/06					
% Solids	96.5		%		86.7		10.7	20	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

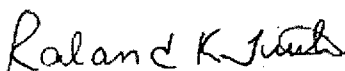
RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

8/1/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton

Project Name: Lovington Gathering WTI

Company Name	Basin Environmental Service Technologies, LLC
--------------	---

Project #: SRS: 2006-142

Company Address: P. O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: PAA/C. Reynolds

Telephone No: (505) 441-2124

Fax No: (505) 398-1429

Sampler Signature:

e-mail: kdutton@basinenv.com

Report Format:

☒ Standard ☐ TRRP ☐ NPDES

Walter D. Taylor

[illegible]

Special Instructions:

Laboratory Comments:

Sample Containers Intact? ☒ N

VOCs Free of Headspace? ☒ N

Custody seals on container(s) ☒ N

Custody seals on cooler(s) ☒ N

Sample Hand Delivered ☒ N

by Sampler/Client Rep? ☒ N

by Courier? ☐ UPS ☐ DHL ☐ FedEx ☐ One Star

Reinquished by:	Date	Time	Received by:	Date	Time
Dustin	24 July 06	0954	Linda Blackwood	July 24, 06	954
Linda Blackwood	July 24, 06	1335	Linda Blackwood	7/24/06	1335

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton

Project Name: Lovington Gathering WT1

Company Name: Basin Environmental Service Technologies, LLC

Project #: SRS: 2006-142

Company Address: P. O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: PAA/C. Reynolds

Telephone No: (505) 441-2124

Fax No: (505) 395-1429

Report Format:

☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: *Ken Dutton*

e-mail: kdutton@basinenv.com

(lab use only)

ORDER #: 604409

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers										Matrix										RUSH TAT (pre-Schedule) 24, 48, 72 hrs	Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
							Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Portable Specify Other	TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCL	N.O.R.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
11	SB-4 5'	0'	5'	19-Jul-06	1141	1	X								SOIL		X								X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</

Special Instructions:

Relinquished by: <i>Ken Dutton</i>	Date: 7/24/06	Time: 0954	Received by: <i>Paula Blackwell</i>	Date: 7/24/06	Time: 0954
Relinquished by: <i>Ken Dutton</i>	Date: 7/24/06	Time: 0954	Received by: <i>Paula Blackwell</i>	Date: 7/24/06	Time: 0954
Relinquished by: <i>Paula Blackwell</i>	Date: 7/24/06	Time: 135	Received by: <i>Ken Dutton</i>	Date: 7/24/06	Time: 135

Laboratory Comments:

Sample Containers Intact? ☒

VOCs Free of Headspace? ☒

Custody seals on container(s) ☒

Custody seals on cooler(s) ☒

Sample Hand Delivered ☒

by Sampler/Client Rep? ☒

by Courier? ☒

DHL ☒

FedEx ☒

Lone Star ☒

Temperature Upon Receipt: 35 °C

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Plains
Date/ Time: 7/24/06 1:35
Lab ID #: 6224009
Initials: CR

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	Yes	No	3.5 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by EL0T?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documetned on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

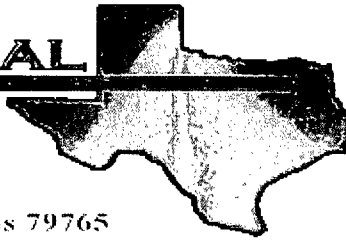
Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

<input type="checkbox"/>	See attached e-mail/ fax
<input type="checkbox"/>	Client understands and would like to proceed with analysis
<input type="checkbox"/>	Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lovington Gathering WTI

Project Number: SRS: 2006-142

Location: Lea County, NM

Lab Order Number: 6G26001

Report Date: 08/02/06

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-9 5'	6G26001-01	Soil	2006-07-24 10:43	2006-07-26 07:40
SB-9 10'	6G26001-02	Soil	2006-07-24 10:45	2006-07-26 07:40
SB-9 20'	6G26001-03	Soil	2006-07-24 10:52	2006-07-26 07:40
SB-9 30'	6G26001-04	Soil	2006-07-24 11:00	2006-07-26 07:40
SB-10 5'	6G26001-05	Soil	2006-07-24 11:26	2006-07-26 07:40
SB-10 10'	6G26001-06	Soil	2006-07-24 11:30	2006-07-26 07:40
SB-10 15'	6G26001-07	Soil	2006-07-24 11:33	2006-07-26 07:40
SB-10 20'	6G26001-08	Soil	2006-07-24 11:38	2006-07-26 07:40
SB-10 25'	6G26001-09	Soil	2006-07-24 11:39	2006-07-26 07:40
SB-10 35'	6G26001-10	Soil	2006-07-24 12:03	2006-07-26 07:40
SB-10 45'	6G26001-11	Soil	2006-07-24 12:07	2006-07-26 07:40
SB-10 55'	6G26001-12	Soil	2006-07-24 12:24	2006-07-26 07:40
SB-10 65'	6G26001-13	Soil	2006-07-24 12:30	2006-07-26 07:40
SB-10 75'	6G26001-14	Soil	2006-07-24 12:33	2006-07-26 07:40
SB-11 5'	6G26001-15	Soil	2006-07-24 15:18	2006-07-26 07:40
SB-11 10'	6G26001-16	Soil	2006-07-24 15:24	2006-07-26 07:40
SB-11 20'	6G26001-17	Soil	2006-07-24 15:29	2006-07-26 07:40
SB-11 30'	6G26001-18	Soil	2006-07-24 15:35	2006-07-26 07:40

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-9 5' (6G26001-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62616	07/26/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		98.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		96.0 %	70-130		"	"	"	"	
SB-9 10' (6G26001-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		85.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62716	07/27/06	07/27/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		94.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		128 %	70-130		"	"	"	"	
SB-9 20' (6G26001-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		90.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62716	07/27/06	07/28/06	EPA 8015M	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-9 20' (6G26001-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EG62716	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		88.2 %	70-130		"	"	"	"	
SB-9 30' (6G26001-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		84.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62716	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		90.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		84.0 %	70-130		"	"	"	"	
SB-10 5' (6G26001-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	EPA 8021B	
Toluene	0.0470	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.134	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.190	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0760	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		84.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	66.1	10.0	mg/kg dry	1	EG62716	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	704	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	113	10.0	"	"	"	"	"	"	
Total Hydrocarbons	883	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		92.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		89.0 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Page 3 of 21

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-10 10' (6G26001-06) Soil									
Benzene	0.251	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	EPA 8021B	
Toluene	1.62	0.0250	"	"	"	"	"	"	
Ethylbenzene	10.4	0.0250	"	"	"	"	"	"	
Xylene (p/m)	10.2	0.0250	"	"	"	"	"	"	
Xylene (o)	2.42	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		725 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		177 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	777	10.0	mg/kg dry	1	EG62716	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	2680	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	233	10.0	"	"	"	"	"	"	
Total Hydrocarbons	3690	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		119 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		121 %	70-130		"	"	"	"	
SB-10 15' (6G26001-07) Soil									
Benzene	0.142	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	EPA 8021B	
Toluene	2.04	0.0250	"	"	"	"	"	"	
Ethylbenzene	5.13	0.0250	"	"	"	"	"	"	
Xylene (p/m)	7.77	0.0250	"	"	"	"	"	"	
Xylene (o)	3.96	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		155 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		167 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	746	10.0	mg/kg dry	1	EG62716	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	3220	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	254	10.0	"	"	"	"	"	"	
Total Hydrocarbons	4220	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		131 %	70-130		"	"	"	"	S-04
Surrogate: 1-Chlorooctadecane		144 %	70-130		"	"	"	"	S-04
SB-10 20' (6G26001-08) Soil									
Benzene	0.152	0.0250	mg/kg dry	25	EG62806	07/28/06	07/31/06	EPA 8021B	
Toluene	3.46	0.0250	"	"	"	"	"	"	
Ethylbenzene	6.54	0.0250	"	"	"	"	"	"	
Xylene (p/m)	10.4	0.0250	"	"	"	"	"	"	
Xylene (o)	5.82	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		160 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		167 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	812	10.0	mg/kg dry	1	EG62717	07/27/06	07/28/06	EPA 8015M	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB-10 20' (6G26001-08) Soil

Carbon Ranges C12-C28	3160	10.0	mg/kg dry	1	EG62717	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C28-C35	295	10.0	"	"	"	"	"	"	
Total Hydrocarbons	4270	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		162 %	70-130		"	"	"	"	S-04
Surrogate: 1-Chlorooctadecane		244 %	70-130		"	"	"	"	S-04

SB-10 25' (6G26001-09) Soil

Benzene	0.0634	0.0250	mg/kg dry	25	EG63119	07/31/06	07/31/06	EPA 8021B	
Toluene	1.47	0.0250	"	"	"	"	"	"	
Ethylbenzene	3.44	0.0250	"	"	"	"	"	"	
Xylene (p/m)	6.18	0.0250	"	"	"	"	"	"	
Xylene (o)	3.16	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		125 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		117 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	740	10.0	mg/kg dry	1	EG62717	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	2850	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	252	10.0	"	"	"	"	"	"	
Total Hydrocarbons	3840	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		163 %	70-130		"	"	"	"	S-04
Surrogate: 1-Chlorooctadecane		238 %	70-130		"	"	"	"	S-04

SB-10 35' (6G26001-10) Soil

Benzene	J [0.0116]	0.0250	mg/kg dry	25	EG63119	07/31/06	07/31/06	EPA 8021B	J
Toluene	0.252	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.557	0.0250	"	"	"	"	"	"	
Xylene (p/m)	1.05	0.0250	"	"	"	"	"	"	
Xylene (o)	0.455	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	87.0	10.0	mg/kg dry	1	EG62717	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	676	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	84.3	10.0	"	"	"	"	"	"	
Total Hydrocarbons	847	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		104 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		99.2 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-10 45' (6G26001-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG63119	07/31/06	07/31/06	EPA 8021B	
Toluene	0.0298	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.0677	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.114	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0591	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	44.3	10.0	mg/kg dry	1	EG62717	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	601	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	62.6	10.0	"	"	"	"	"	"	
Total Hydrocarbons	708	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		109 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		106 %	70-130		"	"	"	"	
SB-10 55' (6G26001-12) Soil									
Benzene	J [0.0151]	0.0250	mg/kg dry	25	EG63119	07/31/06	07/31/06	EPA 8021B	J
Toluene	0.260	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.493	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.789	0.0250	"	"	"	"	"	"	
Xylene (o)	0.418	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	121	10.0	mg/kg dry	1	EG62717	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	908	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	99.3	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1130	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		102 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		98.4 %	70-130		"	"	"	"	
SB-10 65' (6G26001-13) Soil									
Benzene	0.0335	0.0250	mg/kg dry	25	EG63119	07/31/06	07/31/06	EPA 8021B	
Toluene	0.822	0.0250	"	"	"	"	"	"	
Ethylbenzene	1.74	0.0250	"	"	"	"	"	"	
Xylene (p/m)	3.12	0.0250	"	"	"	"	"	"	
Xylene (o)	1.53	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		106 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	453	10.0	mg/kg dry	1	EG62717	07/27/06	07/28/06	EPA 8015M	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-10 65' (6G26001-13) Soil									
Carbon Ranges C12-C28	2380	10.0	mg/kg dry	1	EG62717	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C28-C35	215	10.0	"	"	"	"	"	"	
Total Hydrocarbons	3050	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		115 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		122 %	70-130		"	"	"	"	
SB-10 75' (6G26001-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG63119	07/31/06	07/31/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		87.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	12.9	10.0	mg/kg dry	1	EG62717	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	146	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	11.5	10.0	"	"	"	"	"	"	
Total Hydrocarbons	170	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		94.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		87.4 %	70-130		"	"	"	"	
SB-11 5' (6G26001-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG63119	07/31/06	07/31/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		82.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62717	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		96.0 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		87.8 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-11 10' (6G26001-16) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG63119	07/31/06	08/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		84.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62717	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		94.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		85.4 %	70-130		"	"	"	"	
SB-11 20' (6G26001-17) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG63119	07/31/06	08/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62717	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		91.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		83.8 %	70-130		"	"	"	"	
SB-11 30' (6G26001-18) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG63119	07/31/06	08/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EG62716	07/27/06	07/28/06	EPA 8015M	

Environmental Lab of Texas

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Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-11 30' (6G26001-18) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EG62716	07/27/06	07/28/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		90.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		86.2 %	70-130		"	"	"	"	

Plains All American EH & S
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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

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General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-9 5' (6G26001-01) Soil									
% Moisture	5.0	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-9 10' (6G26001-02) Soil									
% Moisture	10.2	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-9 20' (6G26001-03) Soil									
% Moisture	8.2	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-9 30' (6G26001-04) Soil									
% Moisture	21.9	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-10 5' (6G26001-05) Soil									
% Moisture	2.3	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-10 10' (6G26001-06) Soil									
% Moisture	7.1	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-10 15' (6G26001-07) Soil									
% Moisture	5.5	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-10 20' (6G26001-08) Soil									
Chloride	73.9	5.00	mg/kg	10	EH60105	07/31/06	07/31/06	EPA 300.0	
% Moisture	9.3	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-10 25' (6G26001-09) Soil									
% Moisture	4.7	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-10 35' (6G26001-10) Soil									
% Moisture	29.3	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	

Environmental Lab of Texas

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-10 45' (6G26001-11) Soil									
% Moisture	26.0	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-10 55' (6G26001-12) Soil									
% Moisture	28.5	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-10 65' (6G26001-13) Soil									
% Moisture	7.2	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-10 75' (6G26001-14) Soil									
% Moisture	6.4	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-11 5' (6G26001-15) Soil									
% Moisture	3.1	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-11 10' (6G26001-16) Soil									
% Moisture	5.0	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-11 20' (6G26001-17) Soil									
% Moisture	8.1	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	
SB-11 30' (6G26001-18) Soil									
% Moisture	4.2	0.1	%	1	EG62701	07/26/06	07/27/06	% calculation	

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Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62616 - Solvent Extraction (GC)

Blank (EG62616-BLK1)

Prepared: 07/26/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	56.8		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	56.0		"	50.0		112	70-130			

LCS (EG62616-BS1)

Prepared: 07/26/06 Analyzed: 07/27/06

Carbon Ranges C6-C12	532	10.0	mg/kg wet	500		106	75-125			
Carbon Ranges C12-C28	443	10.0	"	500		88.6	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	975	10.0	"	1000		97.5	75-125			
Surrogate: 1-Chlorooctane	59.5		mg/kg	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	53.7		"	50.0		107	70-130			

Calibration Check (EG62616-CCV1)

Prepared: 07/26/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	282		mg/kg	250		113	80-120			
Carbon Ranges C12-C28	249		"	250		99.6	80-120			
Total Hydrocarbons	531		"	500		106	80-120			
Surrogate: 1-Chlorooctane	62.4		"	50.0		125	70-130			
Surrogate: 1-Chlorooctadecane	64.3		"	50.0		129	70-130			

Matrix Spike (EG62616-MS1)

Source: 6G24009-42

Prepared: 07/26/06 Analyzed: 07/27/06

Carbon Ranges C6-C12	554	10.0	mg/kg dry	536	ND	103	75-125			
Carbon Ranges C12-C28	524	10.0	"	536	ND	97.8	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1080	10.0	"	1070	ND	101	75-125			
Surrogate: 1-Chlorooctane	59.4		mg/kg	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	54.0		"	50.0		108	70-130			

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62616 - Solvent Extraction (GC)

Matrix Spike Dup (EG62616-MSD1)

Source: 6G24009-42

Prepared: 07/26/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	555	10.0	mg/kg dry	536	ND	104	75-125	0.180	20	
Carbon Ranges C12-C28	512	10.0	"	536	ND	95.5	75-125	2.32	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1070	10.0	"	1070	ND	100	75-125	0.930	20	
Surrogate: 1-Chlorooctane	56.0		mg/kg	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	52.2		"	50.0		104	70-130			

Batch EG62716 - Solvent Extraction (GC)

Blank (EG62716-BLK1)

Prepared & Analyzed: 07/27/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0		92.4	70-130			
Surrogate: 1-Chlorooctadecane	42.1		"	50.0		84.2	70-130			

LCS (EG62716-BS1)

Prepared & Analyzed: 07/27/06

Carbon Ranges C6-C12	500	10.0	mg/kg wet	500		100	75-125			
Carbon Ranges C12-C28	555	10.0	"	500		111	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1050	10.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	60.3		mg/kg	50.0		121	70-130			
Surrogate: 1-Chlorooctadecane	47.8		"	50.0		95.6	70-130			

Calibration Check (EG62716-CCV1)

Prepared: 07/27/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	206		mg/kg	250		82.4	80-120			
Carbon Ranges C12-C28	260		"	250		104	80-120			
Total Hydrocarbons	466		"	500		93.2	80-120			
Surrogate: 1-Chlorooctane	61.0		"	50.0		122	70-130			
Surrogate: 1-Chlorooctadecane	51.6		"	50.0		103	70-130			

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Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62716 - Solvent Extraction (GC)

Matrix Spike (EG62716-MS1)

Source: 6G26001-18

Prepared: 07/27/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	583	10.0	mg/kg dry	522	ND	112	75-125			
Carbon Ranges C12-C28	591	10.0	"	522	ND	113	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1170	10.0	"	1040	ND	112	75-125			
Surrogate: 1-Chlorooctane	59.7		mg/kg	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	52.7		"	50.0		105	70-130			

Matrix Spike Dup (EG62716-MSD1)

Source: 6G26001-18

Prepared: 07/27/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	556	10.0	mg/kg dry	522	ND	107	75-125	4.74	20	
Carbon Ranges C12-C28	548	10.0	"	522	ND	105	75-125	7.55	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1100	10.0	"	1040	ND	106	75-125	6.17	20	
Surrogate: 1-Chlorooctane	63.6		mg/kg	50.0		127	70-130			
Surrogate: 1-Chlorooctadecane	51.2		"	50.0		102	70-130			

Batch EG62717 - Solvent Extraction (GC)

Blank (EG62717-BLK1)

Prepared: 07/27/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0		95.4	70-130			
Surrogate: 1-Chlorooctadecane	44.4		"	50.0		88.8	70-130			

LCS (EG62717-BS1)

Prepared: 07/27/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	507	10.0	mg/kg wet	500		101	75-125			
Carbon Ranges C12-C28	570	10.0	"	500		114	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1080	10.0	"	1000		108	75-125			
Surrogate: 1-Chlorooctane	61.3		mg/kg	50.0		123	70-130			
Surrogate: 1-Chlorooctadecane	51.7		"	50.0		103	70-130			

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62717 - Solvent Extraction (GC)

Calibration Check (EG62717-CCV1)

Prepared: 07/27/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	207		mg/kg	250		82.8	80-120			
Carbon Ranges C12-C28	291		"	250		116	80-120			
Total Hydrocarbons	498		"	500		99.6	80-120			
Surrogate: 1-Chlorooctane	64.5		"	50.0		129	70-130			
Surrogate: 1-Chlorooctadecane	64.6		"	50.0		129	70-130			

Matrix Spike (EG62717-MS1)

Source: 6G26001-17

Prepared: 07/27/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	497	10.0	mg/kg dry	544	ND	91.4	75-125			
Carbon Ranges C12-C28	510	10.0	"	544	ND	93.8	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1010	10.0	"	1090	ND	92.7	75-125			
Surrogate: 1-Chlorooctane	52.3		mg/kg	50.0		105	70-130			
Surrogate: 1-Chlorooctadecane	40.8		"	50.0		81.6	70-130			

Matrix Spike Dup (EG62717-MSD1)

Source: 6G26001-17

Prepared: 07/27/06 Analyzed: 07/28/06

Carbon Ranges C6-C12	517	10.0	mg/kg dry	544	ND	95.0	75-125	3.94	20	
Carbon Ranges C12-C28	545	10.0	"	544	ND	100	75-125	6.64	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1060	10.0	"	1090	ND	97.2	75-125	4.83	20	
Surrogate: 1-Chlorooctane	60.0		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	47.4		"	50.0		94.8	70-130			

Batch EG62806 - EPA 5030C (GC)

Blank (EG62806-BLK1)

Prepared: 07/28/06 Analyzed: 07/31/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	36.8		ug/kg	40.0		92.0	80-120			
Surrogate: 4-Bromofluorobenzene	33.3		"	40.0		83.2	80-120			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62806 - EPA 5030C (GC)

LCS (EG62806-BS1)

Prepared & Analyzed: 07/28/06

Benzene	1.03	0.0250	mg/kg wet	1.25		82.4	80-120			
Toluene	1.08	0.0250	"	1.25		86.4	80-120			
Ethylbenzene	1.03	0.0250	"	1.25		82.4	80-120			
Xylene (p/m)	2.36	0.0250	"	2.50		94.4	80-120			
Xylene (o)	1.15	0.0250	"	1.25		92.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	32.2		ug/kg	40.0		80.5	80-120			
Surrogate: 4-Bromofluorobenzene	34.7		"	40.0		86.8	80-120			

Calibration Check (EG62806-CCV1)

Prepared: 07/28/06 Analyzed: 07/31/06

Benzene	0.0513		mg/kg wet	0.0500		103	80-120			
Toluene	0.0498		"	0.0500		99.6	80-120			
Ethylbenzene	0.0520		"	0.0500		104	80-120			
Xylene (p/m)	0.103		"	0.100		103	80-120			
Xylene (o)	0.0508		"	0.0500		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.0		ug/kg	40.0		92.5	80-120			
Surrogate: 4-Bromofluorobenzene	35.2		"	40.0		88.0	80-120			

Matrix Spike (EG62806-MS1)

Source: 6G26001-01

Prepared: 07/28/06 Analyzed: 07/31/06

Benzene	1.33	0.0250	mg/kg dry	1.32	ND	101	80-120			
Toluene	1.33	0.0250	"	1.32	ND	101	80-120			
Ethylbenzene	1.32	0.0250	"	1.32	ND	100	80-120			
Xylene (p/m)	2.89	0.0250	"	2.63	ND	110	80-120			
Xylene (o)	1.43	0.0250	"	1.32	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.4		ug/kg	40.0		86.0	80-120			
Surrogate: 4-Bromofluorobenzene	38.2		"	40.0		95.5	80-120			

Matrix Spike Dup (EG62806-MSD1)

Source: 6G26001-01

Prepared: 07/28/06 Analyzed: 07/31/06

Benzene	1.26	0.0250	mg/kg dry	1.32	ND	95.5	80-120	5.60	20	
Toluene	1.26	0.0250	"	1.32	ND	95.5	80-120	5.60	20	
Ethylbenzene	1.29	0.0250	"	1.32	ND	97.7	80-120	2.33	20	
Xylene (p/m)	2.79	0.0250	"	2.63	ND	106	80-120	3.70	20	
Xylene (o)	1.39	0.0250	"	1.32	ND	105	80-120	2.82	20	
Surrogate: a,a,a-Trifluorotoluene	35.5		ug/kg	40.0		88.8	80-120			
Surrogate: 4-Bromofluorobenzene	40.7		"	40.0		102	80-120			

Environmental Lab of Texas

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG63119 - EPA 5030C (GC)

Blank (EG63119-BLK1)

Prepared & Analyzed: 07/31/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	37.5		ug/kg	40.0		93.8	80-120			
Surrogate: 4-Bromofluorobenzene	33.3		"	40.0		83.2	80-120			

LCS (EG63119-BS1)

Prepared & Analyzed: 07/31/06

Benzene	1.27	0.0250	mg/kg wet	1.25		102	80-120			
Toluene	1.26	0.0250	"	1.25		101	80-120			
Ethylbenzene	1.23	0.0250	"	1.25		98.4	80-120			
Xylene (p/m)	2.74	0.0250	"	2.50		110	80-120			
Xylene (o)	1.37	0.0250	"	1.25		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.5		ug/kg	40.0		98.8	80-120			
Surrogate: 4-Bromofluorobenzene	38.1		"	40.0		95.2	80-120			

Calibration Check (EG63119-CCV1)

Prepared: 07/31/06 Analyzed: 08/01/06

Benzene	51.5		ug/kg	50.0		103	80-120			
Toluene	49.9		"	50.0		99.8	80-120			
Ethylbenzene	51.7		"	50.0		103	80-120			
Xylene (p/m)	103		"	100		103	80-120			
Xylene (o)	50.8		"	50.0		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.7		"	40.0		89.2	80-120			
Surrogate: 4-Bromofluorobenzene	33.7		"	40.0		84.2	80-120			

Matrix Spike (EG63119-MS1)

Source: 6G28008-01

Prepared: 07/31/06 Analyzed: 08/01/06

Benzene	1.51	0.0250	mg/kg dry	1.40	ND	108	80-120			
Toluene	1.52	0.0250	"	1.40	ND	109	80-120			
Ethylbenzene	1.47	0.0250	"	1.40	ND	105	80-120			
Xylene (p/m)	3.25	0.0250	"	2.81	ND	116	80-120			
Xylene (o)	1.58	0.0250	"	1.40	ND	113	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.5		ug/kg	40.0		96.2	80-120			
Surrogate: 4-Bromofluorobenzene	40.9		"	40.0		102	80-120			

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Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG63119 - EPA 5030C (GC)

Matrix Spike Dup (EG63119-MSD1)

Source: 6G28008-01

Prepared: 07/31/06 Analyzed: 08/01/06

Benzene	1.43	0.0250	mg/kg dry	1.40	ND	102	80-120	5.71	20	
Toluene	1.41	0.0250	"	1.40	ND	101	80-120	7.62	20	
Ethylbenzene	1.35	0.0250	"	1.40	ND	96.4	80-120	8.54	20	
Xylene (p/m)	3.00	0.0250	"	2.81	ND	107	80-120	8.07	20	
Xylene (o)	1.49	0.0250	"	1.40	ND	106	80-120	6.39	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	40.4		ug/kg	40.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	39.2		"	40.0		98.0	80-120			

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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EG62701 - General Preparation (Prep)

Blank (EG62701-BLK1)

Prepared: 07/26/06 Analyzed: 07/27/06

% Solids 100 %

Duplicate (EG62701-DUP1)

Source: 6G26001-01

Prepared: 07/26/06 Analyzed: 07/27/06

% Solids 95.0 % 95.0 0.00 20

Duplicate (EG62701-DUP2)

Source: 6G26004-02

Prepared: 07/26/06 Analyzed: 07/27/06

% Solids 95.4 % 96.2 0.835 20

Batch EH60105 - Water Extraction

Blank (EH60105-BLK1)

Prepared & Analyzed: 07/31/06

Chloride ND 0.500 mg/kg

LCS (EH60105-BS1)

Prepared & Analyzed: 07/31/06

Chloride 9.92 0.500 mg/kg 10.0 99.2 80-120

Calibration Check (EH60105-CCV1)

Prepared & Analyzed: 07/31/06

Chloride 11.9 mg/kg 10.0 119 80-120

Duplicate (EH60105-DUP1)

Source: 6G28007-01

Prepared & Analyzed: 07/31/06

Chloride 103 10.0 mg/kg 91.9 11.4 20

Duplicate (EH60105-DUP2)

Source: 6G31003-01

Prepared & Analyzed: 07/31/06

Chloride 356 25.0 mg/kg 387 8.34 20

Matrix Spike (EH60105-MS1)

Source: 6G28007-01

Prepared & Analyzed: 07/31/06

Chloride 300 10.0 mg/kg 200 91.9 104 80-120

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH60105 - Water Extraction

Matrix Spike (EH60105-MS2)

Source: 6G31003-01

Prepared & Analyzed: 07/31/06

Chloride	907	25.0	mg/kg	500	387	104	80-120			
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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

8/2/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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Odessa, Texas 79765
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Project Manager: Ken Dutton
Company Name: Basin Environmental Service Technologies, LLC
Company Address: P. O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No.: (505) 441-2124
Project Name: Lovington Gathering WT
Project #: SRS: 2006-142
Project Loc: Lea County, NM
PO #: PAAJC Reynolds

Report Format: ☒ Standard ☐ TRRP ☐ NPDES
Fax No: (505) 396-1429
e-mail: kdutton@basineny.com
Sampler Signature: Ken Dutton

Lab # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers										Matrix		Analyze For										RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₈	None	Other (Specify)	DW=Drinking Water, SL=Sludge GW=Groundwater, S=Soil/Solid NP=Non-Possible, Specify Other	TPH: 418.1	TPH: 418.1	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	SAR / ESP / CEC	Metals: As, Ag, Ba, Cd, Cr, Pb, Hg, Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	ROI	N.O.R.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
-01		SB-9 5'	0'	5'	24-Jul-06	1043	1	X										SOIL		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Special Instructions:

Relinquished by: Ken Dutton Date: 25Jul06 Time: 1240 Received by: Don Bgt Date: 7/25/06 Time: 1240

Relinquished by: Don Bgt Date: 7/26/06 Time: 0140 Received by: Dandrea Sanchez Date: 7/26/06 Time: 7:40

Relinquished by: Don Bgt Date: 7/26/06 Time: 0140 Received by: Dandrea Sanchez Date: 7/26/06 Time: 7:40

Laboratory Comments:

Sample Containers Intact? ☒ N
VOCs Free of Headspace? ☒ N
Custody seals on container(s) ☒ N
Custody seals on cooler(s) ☒ N
Sample Hand Delivered by Sampler/Client Rep.? ☒ N
by Courier? ☐ UPS ☐ DHL ☐ FedEx ☐ Lone Star

Temperature Upon Receipt: -1.0 °C

**12600 West I-20 East
Odessa, Texas 79765**

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton

Project Name: Lovington Gathering WTI

Company Name Basin Environmental Service Technologies, LLC

Project #: SRS: 2006-142

Company Address: P. O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: PAA/C. Reynolds

Telephone No: (505) 441-2124

Fax No: (505) 396-1429

Report Format:

Sampler Signature:

e-mail: kdutton@basinenr.com

(lab use only)

ORDER #: 662600

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ O ₂	None	Other (Specify)	DV=Drinking Water SL=Sludge GW = Groundwater S=Soil/Sed	NP=Non-Potable Specify Other	TPH: 418.1 8015M 1005 1008	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Sk	Volatiles	Semivolatiles	BTEX 80219/5030 or BTEX 82800	RCI	N.O.R.M.	Standard TAT	RUSH TAT (pre-schedule) 24, 48
11	SB-10 45'	40'	45'	24-Jul-06	1207	1	X								SOIL			X						X				
12	SB-10 55'	50'	55'	24-Jul-06	1224	1	X								SOIL			X						X				
13	SB-10 65'	60'	65'	24-Jul-06	1230	1	X								SOIL			X						X				
14	SB-10 75'	70'	75'	24-Jul-06	1233	1	X								SOIL			X						X				
15	SB-11 5'	0'	5'	24-Jul-06	1518	1	X								SOIL			X						X				
16	SB-11 10'	5'	10'	24-Jul-06	1524	1	X								SOIL			X						X				
17	SB-11 20'	15'	20'	24-Jul-06	1529	1	X								SOIL			X						X				
18	SB-11 30'	25'	30'	24-Jul-06	1535	1	X								SOIL			X						X				

Special Instructions:

Laboratory Comments:

Relinquished by:

Received by: D. B. J.
Received by:

Date	Time
11/25/06	12:40

Sample Containers Intact?		N
VOCs Free of Headspace?		N
Custody seals on container(s)		N
Custody seals on cooler(s)		N
Sample Hand Delivered		N
by Sampler/Client Rep.?		N
by Courier?	FedEx	Long Star
UPS	DHL	

Relinquished by: [Signature]

Received by ELOT: Savona Savona

Date	7/26/06
Time	7:40

Temperature Upon Receipt: -10°C

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Plains P/L
Date/ Time: 07-26-06 @ 0740
Lab ID #: 6A26001
Initials: JMM

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>-1.0</u> °C	
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by EL0T?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

Jeanne McMurrey

From: "Ken Dutton" <kdutton@basinenv.com>
To: "Jeanne" <jeanne@elabtexas.com>
Sent: Friday, July 28, 2006 9:18 AM
Subject: Lovington Gathering WTI Soil Samples

Jeanne,

Please run a chloride analysis (EPA 300.0) on the SB-10 20' soil sample.

thxs

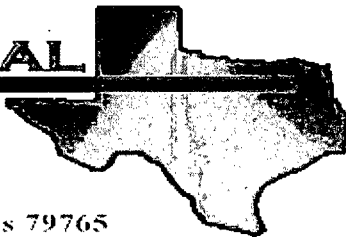
Ken

--

This message has been scanned for viruses and dangerous content by Basin Broadband, and is believed to be clean.

7/28/2006

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lovington Gathering WTI

Project Number: SRS: 2006-142

Location: Lea County, NM

Lab Order Number: 6115017

Report Date: 09/21/06

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1 5'	6115017-01	Soil	09/11/06 09:59	09-15-2006 13:35
MW-1 10'	6115017-02	Soil	09/11/06 10:03	09-15-2006 13:35
MW-1 15'	6115017-03	Soil	09/11/06 10:08	09-15-2006 13:35
MW-1 20'	6115017-04	Soil	09/11/06 10:13	09-15-2006 13:35
MW-1 25'	6115017-05	Soil	09/11/06 10:14	09-15-2006 13:35
MW-1 35'	6115017-06	Soil	09/11/06 10:24	09-15-2006 13:35
MW-1 45'	6115017-07	Soil	09/11/06 10:29	09-15-2006 13:35
MW-1 55'	6115017-08	Soil	09/11/06 10:34	09-15-2006 13:35
MW-1 65'	6115017-09	Soil	09/11/06 10:41	09-15-2006 13:35
MW-1 75'	6115017-10	Soil	09/11/06 10:45	09-15-2006 13:35
MW-2 5'	6115017-11	Soil	09/11/06 14:30	09-15-2006 13:35
MW-2 10'	6115017-12	Soil	09/11/06 14:42	09-15-2006 13:35
MW-2 15'	6115017-13	Soil	09/11/06 14:53	09-15-2006 13:35
MW-2 20'	6115017-14	Soil	09/11/06 14:54	09-15-2006 13:35
MW-2 25'	6115017-15	Soil	09/11/06 14:56	09-15-2006 13:35
MW-2 35'	6115017-16	Soil	09/11/06 15:01	09-15-2006 13:35
MW-2 45'	6115017-17	Soil	09/11/06 15:05	09-15-2006 13:35
MW-2 55'	6115017-18	Soil	09/11/06 15:12	09-15-2006 13:35
MW-2 65'	6115017-19	Soil	09/11/06 15:19	09-15-2006 13:35
MW-2 75'	6115017-20	Soil	09/12/06 10:15	09-15-2006 13:35
MW-3 5'	6115017-21	Soil	09/12/06 13:17	09-15-2006 13:35
MW-3 10'	6115017-22	Soil	09/12/06 13:22	09-15-2006 13:35
MW-3 15'	6115017-23	Soil	09/12/06 13:24	09-15-2006 13:35
MW-3 20'	6115017-24	Soil	09/12/06 13:29	09-15-2006 13:35
MW-3 25'	6115017-25	Soil	09/12/06 13:31	09-15-2006 13:35
MW-3 35'	6115017-26	Soil	09/12/06 13:38	09-15-2006 13:35
MW-3 45'	6115017-27	Soil	09/12/06 13:42	09-15-2006 13:35
MW-3 55'	6115017-28	Soil	09/12/06 13:49	09-15-2006 13:35
MW-3 65'	6115017-29	Soil	09/12/06 13:55	09-15-2006 13:35
MW-3 75'	6115017-30	Soil	09/12/06 13:58	09-15-2006 13:35

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 5' (6115017-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161509	09/15/06	09/15/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161508	09/15/06	09/19/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		73.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		94.6 %	70-130		"	"	"	"	
MW-1 10' (6115017-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161509	09/15/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		101 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161508	09/15/06	09/19/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		73.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.8 %	70-130		"	"	"	"	
MW-1 15' (6115017-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161509	09/15/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161508	09/15/06	09/18/06	EPA 8015M	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 25

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 15' (6115017-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	E161508	09/15/06	09/18/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		85.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		103 %	70-130		"	"	"	"	
MW-1 20' (6115017-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161509	09/15/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161508	09/15/06	09/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		112 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		118 %	70-130		"	"	"	"	
MW-1 25' (6115017-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161509	09/15/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161508	09/15/06	09/19/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		76.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		97.0 %	70-130		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 35' (6115017-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161509	09/15/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161508	09/15/06	09/19/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		76.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		97.0 %	70-130		"	"	"	"	
MW-1 45' (6115017-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161509	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161508	09/15/06	09/19/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		75.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		95.8 %	70-130		"	"	"	"	
MW-1 55' (6115017-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161509	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		90.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161508	09/15/06	09/16/06	EPA 8015M	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 55' (6115017-08) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	E161508	09/15/06	09/16/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		110 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		113 %	70-130		"	"	"	"	
MW-1 65' (6115017-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		93.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161508	09/15/06	09/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		101 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		109 %	70-130		"	"	"	"	
MW-1 75' (6115017-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161508	09/15/06	09/19/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		73.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		97.0 %	70-130		"	"	"	"	

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Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 5' (6115017-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		84.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161508	09/15/06	09/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		106 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		107 %	70-130		"	"	"	"	
MW-2 10' (6115017-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		107 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		114 %	70-130		"	"	"	"	
MW-2 15' (6115017-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		83.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/16/06	EPA 8015M	

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Plains All American EH & S
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Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 15' (6115017-13) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/16/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		111 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		112 %	70-130		"	"	"	"	
MW-2 20' (6115017-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		109 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		108 %	70-130		"	"	"	"	
MW-2 25' (6115017-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/19/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		105 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		107 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		105 %	70-130		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 35' (6115017-16) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		108 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		108 %	70-130		"	"	"	"	
MW-2 45' (6115017-17) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		108 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		109 %	70-130		"	"	"	"	
MW-2 55' (6115017-18) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 55' (6115017-18) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		110 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		110 %	70-130		"	"	"	"	
MW-2 65' (6115017-19) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		112 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		113 %	70-130		"	"	"	"	
MW-2 75' (6115017-20) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		108 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		108 %	70-130		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 5' (6115017-21) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		90.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		110 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		109 %	70-130		"	"	"	"	
MW-3 10' (6115017-22) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		94.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		114 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		109 %	70-130		"	"	"	"	
MW-3 15' (6115017-23) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/19/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		93.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-3 15' (6H15017-23) Soil

Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		103 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		99.4 %	70-130		"	"	"	"	

MW-3 20' (6H15017-24) Soil

Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		105 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		107 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		103 %	70-130		"	"	"	"	

MW-3 25' (6H15017-25) Soil

Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/19/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		109 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		104 %	70-130		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 35' (6115017-26) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/19/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		107 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		103 %	70-130		"	"	"	"	
MW-3 45' (6115017-27) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161812	09/18/06	09/19/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		91.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		114 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		107 %	70-130		"	"	"	"	
MW-3 55' (6115017-28) Soil									
Benzene	ND	0.0250	mg/kg dry	25	E161904	09/19/06	09/19/06	EPA 8021B	
Toluene	0.0327	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.0395	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.641	0.0250	"	"	"	"	"	"	
Xylene (o)	0.310	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		91.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	249	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-3 55' (6115017-28) Soil

Carbon Ranges C12-C28	1730	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	
Carbon Ranges C28-C35	97.1	10.0	"	"	"	"	"	"	
Total Hydrocarbons	2080	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		130 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		169 %	70-130		"	"	"	"	S-04

MW-3 65' (6115017-29) Soil

Benzene	ND	0.0250	mg/kg dry	25	E161904	09/19/06	09/19/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		120 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [9.01]	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	J
Carbon Ranges C12-C28	61.3	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	J [4.59]	10.0	"	"	"	"	"	"	J
Total Hydrocarbons	61.3	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		109 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		110 %	70-130		"	"	"	"	

MW-3 75' (6115017-30) Soil

Benzene	ND	0.0250	mg/kg dry	25	E161904	09/19/06	09/19/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		86.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [7.28]	10.0	mg/kg dry	1	E161807	09/15/06	09/17/06	EPA 8015M	J
Carbon Ranges C12-C28	111	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	10.3	10.0	"	"	"	"	"	"	
Total Hydrocarbons	121	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		114 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		119 %	70-130		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 5' (6115017-01) Soil									
% Moisture	3.3	0.1	%	1	E161809	09/15/06	09/18/06	% calculation	
MW-1 10' (6115017-02) Soil									
% Moisture	2.2	0.1	%	1	E161809	09/15/06	09/18/06	% calculation	
MW-1 15' (6115017-03) Soil									
% Moisture	2.8	0.1	%	1	E161809	09/15/06	09/18/06	% calculation	
MW-1 20' (6115017-04) Soil									
% Moisture	6.6	0.1	%	1	E161809	09/15/06	09/18/06	% calculation	
MW-1 25' (6115017-05) Soil									
% Moisture	3.6	0.1	%	1	E161809	09/15/06	09/18/06	% calculation	
MW-1 35' (6115017-06) Soil									
% Moisture	3.1	0.1	%	1	E161809	09/15/06	09/18/06	% calculation	
MW-1 45' (6115017-07) Soil									
% Moisture	2.6	0.1	%	1	E161809	09/15/06	09/18/06	% calculation	
MW-1 55' (6115017-08) Soil									
% Moisture	3.0	0.1	%	1	E161809	09/15/06	09/18/06	% calculation	
MW-1 65' (6115017-09) Soil									
% Moisture	3.7	0.1	%	1	E161809	09/15/06	09/18/06	% calculation	
MW-1 75' (6115017-10) Soil									
% Moisture	3.8	0.1	%	1	E161809	09/15/06	09/18/06	% calculation	
MW-2 5' (6115017-11) Soil									
% Moisture	2.5	0.1	%	1	E161809	09/15/06	09/18/06	% calculation	

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General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 10' (6115017-12) Soil									
% Moisture	2.5	0.1	%	1	E161809	09/15/06	09/18/06	% calculation	
MW-2 15' (6115017-13) Soil									
% Moisture	3.7	0.1	%	1	E161809	09/15/06	09/18/06	% calculation	
MW-2 20' (6115017-14) Soil									
% Moisture	2.5	0.1	%	1	E161809	09/15/06	09/18/06	% calculation	
MW-2 25' (6115017-15) Soil									
% Moisture	1.8	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	
MW-2 35' (6115017-16) Soil									
% Moisture	2.2	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	
MW-2 45' (6115017-17) Soil									
% Moisture	3.2	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	
MW-2 55' (6115017-18) Soil									
% Moisture	2.2	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	
MW-2 65' (6115017-19) Soil									
% Moisture	3.9	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	
MW-2 75' (6115017-20) Soil									
% Moisture	5.3	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	
MW-3 5' (6115017-21) Soil									
% Moisture	5.4	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	
MW-3 10' (6115017-22) Soil									
% Moisture	7.9	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	

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General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 15' (6115017-23) Soil									
% Moisture	7.4	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	
MW-3 20' (6115017-24) Soil									
% Moisture	6.4	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	
MW-3 25' (6115017-25) Soil									
% Moisture	2.0	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	
MW-3 35' (6115017-26) Soil									
% Moisture	3.4	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	
MW-3 45' (6115017-27) Soil									
% Moisture	3.3	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	
MW-3 55' (6115017-28) Soil									
% Moisture	4.0	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	
MW-3 65' (6115017-29) Soil									
% Moisture	4.8	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	
MW-3 75' (6115017-30) Soil									
% Moisture	4.6	0.1	%	1	E161810	09/15/06	09/18/06	% calculation	

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI61508 - Solvent Extraction (GC)

Blank (EI61508-BLK1)

Prepared: 09/15/06 Analyzed: 09/16/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	48.2		mg/kg	50.0		96.4	70-130			
Surrogate: 1-Chlorooctadecane	47.0		"	50.0		94.0	70-130			

LCS (EI61508-BS1)

Prepared: 09/15/06 Analyzed: 09/16/06

Carbon Ranges C6-C12	491	10.0	mg/kg wet	500		98.2	75-125			
Carbon Ranges C12-C28	434	10.0	"	500		86.8	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	925	10.0	"	1000		92.5	75-125			
Surrogate: 1-Chlorooctane	56.8		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	46.3		"	50.0		92.6	70-130			

Calibration Check (EI61508-CCV1)

Prepared: 09/15/06 Analyzed: 09/16/06

Carbon Ranges C6-C12	225		mg/kg	250		90.0	80-120			
Carbon Ranges C12-C28	279		"	250		112	80-120			
Total Hydrocarbons	504		"	500		101	80-120			
Surrogate: 1-Chlorooctane	61.1		"	50.0		122	70-130			
Surrogate: 1-Chlorooctadecane	55.7		"	50.0		111	70-130			

Matrix Spike (EI61508-MS1)

Source: 6115017-03

Prepared: 09/15/06 Analyzed: 09/18/06

Carbon Ranges C6-C12	542	10.0	mg/kg dry	514	ND	105	75-125			
Carbon Ranges C12-C28	614	10.0	"	514	ND	119	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1160	10.0	"	1030	ND	113	75-125			
Surrogate: 1-Chlorooctane	48.6		mg/kg	50.0		97.2	70-130			
Surrogate: 1-Chlorooctadecane	38.8		"	50.0		77.6	70-130			

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI61508 - Solvent Extraction (GC)

Matrix Spike Dup (EI61508-MSD1)

Source: 6115017-03

Prepared: 09/15/06 Analyzed: 09/18/06

Carbon Ranges C6-C12	559	10.0	mg/kg dry	514	ND	109	75-125	3.09	20	
Carbon Ranges C12-C28	572	10.0	"	514	ND	111	75-125	7.08	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1130	10.0	"	1030	ND	110	75-125	2.62	20	
Surrogate: 1-Chlorooctane	47.0		mg/kg	50.0		94.0	70-130			
Surrogate: 1-Chlorooctadecane	50.6		"	50.0		101	70-130			

Batch EI61509 - EPA 5030C (GC)

Blank (EI61509-BLK1)

Prepared & Analyzed: 09/15/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	36.8		ug/kg	40.0		92.0	80-120			
Surrogate: 4-Bromofluorobenzene	32.7		"	40.0		81.8	80-120			

LCS (EI61509-BS1)

Prepared & Analyzed: 09/15/06

Benzene	1.36	0.0250	mg/kg wet	1.25		109	80-120			
Toluene	1.15	0.0250	"	1.25		92.0	80-120			
Ethylbenzene	1.21	0.0250	"	1.25		96.8	80-120			
Xylene (p/m)	2.48	0.0250	"	2.50		99.2	80-120			
Xylene (o)	1.20	0.0250	"	1.25		96.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.8		ug/kg	40.0		87.0	80-120			
Surrogate: 4-Bromofluorobenzene	37.0		"	40.0		92.5	80-120			

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Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EI61509 - EPA 5030C (GC)

Calibration Check (EI61509-CCV1)

Prepared: 09/15/06 Analyzed: 09/18/06

Benzene	52.3		ug/kg	50.0		105	80-120		
Toluene	46.8		"	50.0		93.6	80-120		
Ethylbenzene	45.0		"	50.0		90.0	80-120		
Xylene (p/m)	93.1		"	100		93.1	80-120		
Xylene (o)	45.8		"	50.0		91.6	80-120		
Surrogate: a,a,a-Trifluorotoluene	41.5		"	40.0		104	80-120		
Surrogate: 4-Bromofluorobenzene	33.8		"	40.0		84.5	80-120		

Matrix Spike (EI61509-MS1)

Source: 6115001-01

Prepared: 09/15/06 Analyzed: 09/18/06

Benzene	1.43	0.0250	mg/kg dry	1.32	ND	108	80-120		
Toluene	1.22	0.0250	"	1.32	ND	92.4	80-120		
Ethylbenzene	1.26	0.0250	"	1.32	ND	95.5	80-120		
Xylene (p/m)	2.58	0.0250	"	2.64	ND	97.7	80-120		
Xylene (o)	1.22	0.0250	"	1.32	ND	92.4	80-120		
Surrogate: a,a,a-Trifluorotoluene	38.7		ug/kg	40.0		96.8	80-120		
Surrogate: 4-Bromofluorobenzene	36.4		"	40.0		91.0	80-120		

Matrix Spike Dup (EI61509-MSD1)

Source: 6115001-01

Prepared: 09/15/06 Analyzed: 09/18/06

Benzene	1.46	0.0250	mg/kg dry	1.32	ND	111	80-120	2.74	20
Toluene	1.24	0.0250	"	1.32	ND	93.9	80-120	1.61	20
Ethylbenzene	1.27	0.0250	"	1.32	ND	96.2	80-120	0.730	20
Xylene (p/m)	2.64	0.0250	"	2.64	ND	100	80-120	2.33	20
Xylene (o)	1.25	0.0250	"	1.32	ND	94.7	80-120	2.46	20
Surrogate: a,a,a-Trifluorotoluene	39.8		ug/kg	40.0		99.5	80-120		
Surrogate: 4-Bromofluorobenzene	38.3		"	40.0		95.8	80-120		

Batch EI61807 - Solvent Extraction (GC)

Blank (EI61807-BLK1)

Prepared: 09/15/06 Analyzed: 09/16/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet						
Carbon Ranges C12-C28	ND	10.0	"						
Carbon Ranges C28-C35	ND	10.0	"						
Total Hydrocarbons	ND	10.0	"						
Surrogate: 1-Chlorooctane	51.0		mg/kg	50.0		102	70-130		
Surrogate: 1-Chlorooctadecane	51.1		"	50.0		102	70-130		

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EI61807 - Solvent Extraction (GC)

LCS (EI61807-BS1)

Prepared: 09/15/06 Analyzed: 09/16/06

Carbon Ranges C6-C12	524	10.0	mg/kg wet	500		105	75-125		
Carbon Ranges C12-C28	454	10.0	"	500		90.8	75-125		
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125		
Total Hydrocarbons	978	10.0	"	1000		97.8	75-125		
Surrogate: 1-Chlorooctane	61.2		mg/kg	50.0		122	70-130		
Surrogate: 1-Chlorooctadecane	50.9		"	50.0		102	70-130		

Calibration Check (EI61807-CCV1)

Prepared: 09/15/06 Analyzed: 09/17/06

Carbon Ranges C6-C12	240		mg/kg	250		96.0	80-120		
Carbon Ranges C12-C28	276		"	250		110	80-120		
Total Hydrocarbons	516		"	500		103	80-120		
Surrogate: 1-Chlorooctane	62.3		"	50.0		125	70-130		
Surrogate: 1-Chlorooctadecane	54.0		"	50.0		108	70-130		

Matrix Spike (EI61807-MS1)

Source: 6115017-14

Prepared: 09/15/06 Analyzed: 09/16/06

Carbon Ranges C6-C12	525	10.0	mg/kg dry	513	ND	102	75-125		
Carbon Ranges C12-C28	469	10.0	"	513	ND	91.4	75-125		
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		
Total Hydrocarbons	994	10.0	"	1030	ND	96.5	75-125		
Surrogate: 1-Chlorooctane	62.1		mg/kg	50.0		124	70-130		
Surrogate: 1-Chlorooctadecane	60.9		"	50.0		122	70-130		

Matrix Spike Dup (EI61807-MSD1)

Source: 6115017-14

Prepared: 09/15/06 Analyzed: 09/16/06

Carbon Ranges C6-C12	518	10.0	mg/kg dry	513	ND	101	75-125	1.34	20
Carbon Ranges C12-C28	458	10.0	"	513	ND	89.3	75-125	2.37	20
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20
Total Hydrocarbons	976	10.0	"	1030	ND	94.8	75-125	1.83	20
Surrogate: 1-Chlorooctane	60.8		mg/kg	50.0		122	70-130		
Surrogate: 1-Chlorooctadecane	60.0		"	50.0		120	70-130		

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EI61812 - EPA 5030C (GC)

Blank (EI61812-BLK1)

Prepared & Analyzed: 09/18/06

Benzene	ND	0.0250	mg/kg wet						
Toluene	ND	0.0250	"						
Ethylbenzene	ND	0.0250	"						
Xylene (p/m)	ND	0.0250	"						
Xylene (o)	ND	0.0250	"						
Surrogate: a,a,a-Trifluorotoluene	35.9		ug/kg	40.0		89.8	80-120		
Surrogate: 4-Bromofluorobenzene	32.7		"	40.0		81.8	80-120		

LCS (EI61812-BS1)

Prepared & Analyzed: 09/18/06

Benzene	1.34	0.0250	mg/kg wet	1.25		107	80-120		
Toluene	1.18	0.0250	"	1.25		94.4	80-120		
Ethylbenzene	1.01	0.0250	"	1.25		80.8	80-120		
Xylene (p/m)	2.39	0.0250	"	2.50		95.6	80-120		
Xylene (o)	1.07	0.0250	"	1.25		85.6	80-120		
Surrogate: a,a,a-Trifluorotoluene	33.9		ug/kg	40.0		84.8	80-120		
Surrogate: 4-Bromofluorobenzene	34.1		"	40.0		85.2	80-120		

Calibration Check (EI61812-CCV1)

Prepared: 09/18/06 Analyzed: 09/19/06

Benzene	0.0544		mg/kg wet	0.0500		109	80-120		
Toluene	0.0481		"	0.0500		96.2	80-120		
Ethylbenzene	0.0460		"	0.0500		92.0	80-120		
Xylene (p/m)	0.0919		"	0.100		91.9	80-120		
Xylene (o)	0.0462		"	0.0500		92.4	80-120		
Surrogate: a,a,a-Trifluorotoluene	38.8		ug/kg	40.0		97.0	80-120		
Surrogate: 4-Bromofluorobenzene	32.8		"	40.0		82.0	80-120		

Matrix Spike (EI61812-MS1)

Source: 6115017-09

Prepared: 09/18/06 Analyzed: 09/19/06

Benzene	1.45	0.0250	mg/kg dry	1.30	ND	112	80-120		
Toluene	1.30	0.0250	"	1.30	ND	100	80-120		
Ethylbenzene	1.18	0.0250	"	1.30	ND	90.8	80-120		
Xylene (p/m)	2.69	0.0250	"	2.60	ND	103	80-120		
Xylene (o)	1.23	0.0250	"	1.30	ND	94.6	80-120		
Surrogate: a,a,a-Trifluorotoluene	36.5		ug/kg	40.0		91.2	80-120		
Surrogate: 4-Bromofluorobenzene	38.0		"	40.0		95.0	80-120		

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI61812 - EPA 5030C (GC)

Matrix Spike Dup (EI61812-MSD1)

Source: 6115017-09

Prepared: 09/18/06 Analyzed: 09/19/06

Benzene	1.34	0.0250	mg/kg dry	1.30	ND	103	80-120	8.37	20	
Toluene	1.22	0.0250	"	1.30	ND	93.8	80-120	6.40	20	
Ethylbenzene	1.16	0.0250	"	1.30	ND	89.2	80-120	1.78	20	
Xylene (p/m)	2.52	0.0250	"	2.60	ND	96.9	80-120	6.10	20	
Xylene (o)	1.16	0.0250	"	1.30	ND	89.2	80-120	5.88	20	
Surrogate: a,a,a-Trifluorotoluene	37.1		ug/kg	40.0		92.8	80-120			
Surrogate: 4-Bromofluorobenzene	35.6		"	40.0		89.0	80-120			

Batch EI61904 - EPA 5030C (GC)

Blank (EI61904-BLK1)

Prepared & Analyzed: 09/19/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	38.7		ug/kg	40.0		96.8	80-120			
Surrogate: 4-Bromofluorobenzene	32.4		"	40.0		81.0	80-120			

LCS (EI61904-BS1)

Prepared & Analyzed: 09/19/06

Benzene	1.42	0.0250	mg/kg wet	1.25		114	80-120			
Toluene	1.29	0.0250	"	1.25		103	80-120			
Ethylbenzene	1.19	0.0250	"	1.25		95.2	80-120			
Xylene (p/m)	2.65	0.0250	"	2.50		106	80-120			
Xylene (o)	1.22	0.0250	"	1.25		97.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.4		ug/kg	40.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	38.7		"	40.0		96.8	80-120			

Environmental Lab of Texas

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI61904 - EPA 5030C (GC)

Calibration Check (EI61904-CCV1)

Prepared & Analyzed: 09/19/06

Benzene	0.0512		mg/kg wet	0.0500		102	80-120			
Toluene	0.0454		"	0.0500		90.8	80-120			
Ethylbenzene	0.0450		"	0.0500		90.0	80-120			
Xylene (p/m)	0.0887		"	0.100		88.7	80-120			
Xylene (o)	0.0440		"	0.0500		88.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.4		ug/kg	40.0		98.5	80-120			
Surrogate: 4-Bromofluorobenzene	32.8		"	40.0		82.0	80-120			

Matrix Spike (EI61904-MS1)

Source: 6115017-30

Prepared & Analyzed: 09/19/06

Benzene	1.47	0.0250	mg/kg dry	1.31	ND	112	80-120			
Toluene	1.33	0.0250	"	1.31	ND	102	80-120			
Ethylbenzene	1.21	0.0250	"	1.31	ND	92.4	80-120			
Xylene (p/m)	2.81	0.0250	"	2.62	ND	107	80-120			
Xylene (o)	1.32	0.0250	"	1.31	ND	101	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.2		ug/kg	40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	39.3		"	40.0		98.2	80-120			

Matrix Spike Dup (EI61904-MSD1)

Source: 6115017-30

Prepared & Analyzed: 09/19/06

Benzene	1.55	0.0250	mg/kg dry	1.31	ND	118	80-120	5.22	20	
Toluene	1.32	0.0250	"	1.31	ND	101	80-120	0.985	20	
Ethylbenzene	1.32	0.0250	"	1.31	ND	101	80-120	8.89	20	
Xylene (p/m)	2.75	0.0250	"	2.62	ND	105	80-120	1.89	20	
Xylene (o)	1.36	0.0250	"	1.31	ND	104	80-120	2.93	20	
Surrogate: a,a,a-Trifluorotoluene	39.9		ug/kg	40.0		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	44.5		"	40.0		111	80-120			

Environmental Lab of Texas

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI61809 - General Preparation (Prep)

Blank (EI61809-BLK1)

Prepared: 09/15/06 Analyzed: 09/18/06

% Solids	99.8		%							
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Duplicate (EI61809-DUP1)

Source: 6115010-01

Prepared: 09/15/06 Analyzed: 09/18/06

% Solids	93.0		%		93.5			0.536	20	
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Batch EI61810 - General Preparation (Prep)

Blank (EI61810-BLK1)

Prepared & Analyzed: 09/18/06

% Solids	99.8		%							
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Duplicate (EI61810-DUP1)

Source: 6115017-15

Prepared & Analyzed: 09/18/06

% Solids	97.9		%		98.2			0.306	20	
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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

9/21/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton
Company Name: Basin Environmental Service Technologies, LLC
Company Address: P. O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: (505) 441-2124
Fax No: (505) 396-1429
Project Name: Lovington Gathering WTI
Project #: SRS: 2006-142
Project Loc: Lea County, NM
PO #: PAA/C. Reynolds
Report Format: ☒ Standard ☐ TRRP ☐ NPDES
Sample Signature: Ken Dutton e-mail: kdutton@basinenr.com

ORDER #:	LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers										Matrix		RUSH TAT (Pre-Schedule) 2A, 4B, 72 hrs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₈	None	Other (Specify)	DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Portable Specify Other	TPH: 418, 1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , CO ₃ , HCO ₃)		SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Semivolatiles	BTEX 8021B/5030 or BTEX 8280	RCI	N.O.R.M.	Chlorides (EPA 300.0)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
67-15017		MW-1 5'	0	5	11-Sep-06	959	1	X								SOIL	X														X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
<u>Ken Dutton</u>	<u>15 SEP 06</u>	<u>10:06</u>	<u>Jude Blackwood</u>	<u>15 SEP 06</u>	<u>10:07</u>
Relinquished by:	Date	Time	Received by:	Date	Time
<u>Jude Blackwood</u>	<u>9-15-06</u>	<u>1:35</u>	<u>Lavin</u>	<u>9/15/06</u>	<u>1:35</u>
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Comments:

Sample Containers Intact?	<input checked="" type="checkbox"/>	N
VOCs Free of Headspace?	<input checked="" type="checkbox"/>	N
Custody seals on container(s)	<input checked="" type="checkbox"/>	N
Custody seals on cooler(s)	<input checked="" type="checkbox"/>	N
Sample Hand Delivered by Sampler/Client Rep?	<input checked="" type="checkbox"/>	N
by Courier? UPS DHL FedEx Lone Star		
Temperature Upon Receipt	<u>40</u>	°C

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton
Company Name: Basin Environmental Service Technologies, LLC
Company Address: P. O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: (505) 441-2124
Fax No: (505) 396-1429
Project Name: Lovington Gathering WTI
Project #: SRS: 2006-142
Project Loc: Lea County, NM
PO #: PAA/C. Reynolds
Report Format: ☒ Standard ☐ TRRP ☐ NPOES
e-mail: kdutton@basinenv.com
Sampler Signature: Ken Dutton

LAB # (lab use only)	ORDER #	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers										Matrix	Analyze For:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ SO ₄	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Probable Specify Other	TPH: 413.1 801SM 1005 1006		Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides (EPA 300.0)	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		MW-2 5'	0	5	11-Sep-06	1430	1	X							SOIL	X									X				X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

Special Instructions:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<u>Ken Dutton</u>	<u>13 SEP 06</u>	<u>1446</u>	<u>Fonda Blackwood</u>	<u>Sept 15, 06</u>	<u>10:07</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<u>Fonda Blackwood</u>	<u>9/15/06</u>	<u>1:35</u>	<u>Ken Dutton</u>	<u>9/15/06</u>	<u>1:35</u>

Laboratory Comments:

Sample Containers Intact? N
VOCs Free of Headspace? N
Custody seals on container(s) N
Custody seals on cooler(s) N
Sample Hand Delivered N
by Sampler/Client Rep.? N
by Courier? N UPS N DHL N FedEx N Lone Star

Temperature Upon Receipt: 40 °C

Project Manager: Ken Dutton
 Company Name: Basin Environmental Service Technologies, LLC
 Company Address: P. O. Box 301
 City/State/Zip: Lovington, NM 88260
 Telephone No: (505) 441-2124
 Sampler Signature: Ken Dutton
 Project Name: Lovington Gathering WTI
 Project #: SRS: 2006-142
 Project Loc: Lea County, NM
 PO #: PAA/C. Reynolds
 Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Fax No: (505) 396-1429

e-mail: kdutton@basinenv.com

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers										Matrix	Analyze For:										Standard TAT	
							Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid		NP=Non-Potable Specify Other	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.		Chlorides (EPA 300.0)
21	MW-3 5'	0	5	12-Sep-06	1317	1	X									SOIL		X							X				X
22	MW-3 10'	5	10	12-Sep-06	1322	1	X									SOIL		X							X				X
23	MW-3 15'	10	15	12-Sep-06	1324	1	X									SOIL		X							X				X
24	MW-3 20'	15	20	12-Sep-06	1329	1	X									SOIL		X							X				X
25	MW-3 25'	20	25	12-Sep-06	1331	1	X									SOIL		X							X				X
26	MW-3 35'	30'	35'	12-Sep-06	1338	1	X									SOIL		X							X				X
27	MW-3 45'	40'	45'	12-Sep-06	1342	1	X									SOIL		X							X				X
28	MW-3 55'	50'	55'	12-Sep-06	1349	1	X									SOIL		X							X				X
29	MW-3 65'	60'	65'	12-Sep-06	1355	1	X									SOIL		X							X				X
30	MW-3 75'	70'	75'	12-Sep-06	1358	1	X									SOIL		X							X				X
ORDER #:		6515617													RUSH TAT (Pre-Schedule) 24, 48, 72 hrs														
TCLP:																													
TOTAL:																													

Special Instructions:

Relinquished by: <u>Ken Dutton</u>	Date: <u>15-Sep-06</u>	Time: <u>1:00</u>	Received by: <u>John Blackwood</u>	Date: <u>Sept 15 04 10:07</u>	Time: <u>10:07</u>
Relinquished by: <u>Ken Dutton</u>	Date: <u>15-Sep-06</u>	Time: <u>1:00</u>	Received by: <u>John Blackwood</u>	Date: <u>Sept 15 04 10:07</u>	Time: <u>10:07</u>
Relinquished by: <u>John Blackwood</u>	Date: <u>9-15-06</u>	Time: <u>1:35</u>	Received by: <u>Ken Dutton</u>	Date: <u>9/15/06</u>	Time: <u>1:35</u>

Laboratory Comments:
 Sample Containers Intact? N
 VOCs Free of Headspace? N
 Custody seals on container(s) N
 Custody seals on cooler(s) N
 Sample Hand Delivered N
 by Sampler/Client Rep. ? N
 by Courier? N UPS N DHL N FedEx N Lone Star N
 Temperature Upon Receipt: 4.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains
 Date/ Time: 9/15/06 1:35
 Lab ID #: 6E15017
 Initials: OK

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	Yes	No	<u>K.D</u> °C
#2	Shipping container in good condition?	<u>Yes</u>	No	
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present
#5	Chain of Custody present?	<u>Yes</u>	No	
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No	
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No	
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No	
#11	Containers supplied by ELOT?	<u>Yes</u>	No	
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below
#13	Samples properly preserved?	<u>Yes</u>	No	See Below
#14	Sample bottles intact?	<u>Yes</u>	No	
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No	
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No	
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below
#19	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

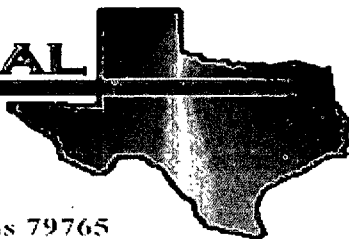
Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☐ Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lovington Gathering WTI

Project Number: SRS: 2006-142

Location: Lea Co., NM

Lab Order Number: 6J06008

Report Date: 10/18/06

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6J06008-01	Water	10/05/06 11:55	10-06-2006 14:00
MW-2	6J06008-02	Water	10/05/06 14:40	10-06-2006 14:00
MW-3	6J06008-03	Water	10/05/06 16:55	10-06-2006 14:00

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6J06008-01) Water									S-INT
Benzene	ND	0.0100	mg/L	10	EJ61608	10/17/06	10/17/06	EPA 8021B	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0100	"	"	"	"	"	"	
Xylene (o)	ND	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.2 %	80-120		"	"	"	"	
MW-2 (6J06008-02) Water									
Benzene	0.0109	0.0100	mg/L	10	EJ61608	10/17/06	10/17/06	EPA 8021B	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	ND	0.0100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0100	"	"	"	"	"	"	
Xylene (o)	ND	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.8 %	80-120		"	"	"	"	
MW-3 (6J06008-03) Water									
Benzene	6.60	0.0250	mg/L	25	EJ61608	10/17/06	10/17/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	J [0.0144]	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0723	0.0250	"	"	"	"	"	"	
Xylene (o)	J [0.00948]	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.2 %	80-120		"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 5

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch EJ61608 - EPA 5030C (GC)

Blank (EJ61608-BLK1)

Prepared: 10/16/06 Analyzed: 10/17/06

Benzene	ND	0.00100	mg/L						
Toluene	ND	0.00100	"						
Ethylbenzene	ND	0.00100	"						
Xylene (p/m)	ND	0.00100	"						
Xylene (o)	ND	0.00100	"						
Surrogate: <i>a,a,a</i> -Trifluorotoluene	32.4		ug/l	40.0		81.0	80-120		
Surrogate: 4-Bromofluorobenzene	33.9		"	40.0		84.8	80-120		

LCS (EJ61608-BS1)

Prepared: 10/16/06 Analyzed: 10/17/06

Benzene	0.0482	0.00100	mg/L	0.0500		96.4	80-120		
Toluene	0.0428	0.00100	"	0.0500		85.6	80-120		
Ethylbenzene	0.0413	0.00100	"	0.0500		82.6	80-120		
Xylene (p/m)	0.0853	0.00100	"	0.100		85.3	80-120		
Xylene (o)	0.0409	0.00100	"	0.0500		81.8	80-120		
Surrogate: <i>a,a,a</i> -Trifluorotoluene	36.7		ug/l	40.0		91.8	80-120		
Surrogate: 4-Bromofluorobenzene	42.8		"	40.0		107	80-120		

Calibration Check (EJ61608-CCV1)

Prepared: 10/16/06 Analyzed: 10/17/06

Benzene	50.4		ug/l	50.0		101	80-120		
Toluene	43.5		"	50.0		87.0	80-120		
Ethylbenzene	41.4		"	50.0		82.8	80-120		
Xylene (p/m)	81.9		"	100		81.9	80-120		
Xylene (o)	40.3		"	50.0		80.6	80-120		
Surrogate: <i>a,a,a</i> -Trifluorotoluene	33.7		"	40.0		84.2	80-120		
Surrogate: 4-Bromofluorobenzene	35.0		"	40.0		87.5	80-120		

Matrix Spike (EJ61608-MS1)

Source: 6J12016-01

Prepared: 10/16/06 Analyzed: 10/17/06

Benzene	0.0518	0.00100	mg/L	0.0500	ND	104	80-120		
Toluene	0.0462	0.00100	"	0.0500	ND	92.4	80-120		
Ethylbenzene	0.0424	0.00100	"	0.0500	ND	84.8	80-120		
Xylene (p/m)	0.0932	0.00100	"	0.100	ND	93.2	80-120		
Xylene (o)	0.0432	0.00100	"	0.0500	ND	86.4	80-120		
Surrogate: <i>a,a,a</i> -Trifluorotoluene	37.6		ug/l	40.0		94.0	80-120		
Surrogate: 4-Bromofluorobenzene	39.6		"	40.0		99.0	80-120		

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 3 of 5

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EJ61608 - EPA 5030C (GC)

Matrix Spike Dup (EJ61608-MSD1)

Source: 6J12016-01

Prepared: 10/16/06 Analyzed: 10/17/06

Benzene	0.0500	0.00100	mg/L	0.0500	ND	100	80-120	3.92	20	
Toluene	0.0424	0.00100	"	0.0500	ND	84.8	80-120	8.58	20	
Ethylbenzene	0.0453	0.00100	"	0.0500	ND	90.6	80-120	6.61	20	
Xylene (p/m)	0.0807	0.00100	"	0.100	ND	80.7	80-120	14.4	20	
Xylene (o)	0.0412	0.00100	"	0.0500	ND	82.4	80-120	4.74	20	
Surrogate: a,a,a-Trifluorotoluene	33.8		ug/l	40.0		84.5	80-120			
Surrogate: 4-Bromofluorobenzene	34.7		"	40.0		86.8	80-120			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 4 of 5

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

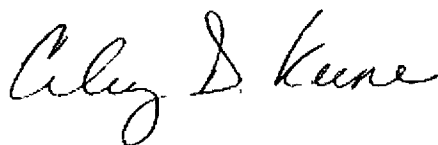
Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

S-INT Sample contains high levels of surfactants.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By: _____



Date: 10/18/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
La Tasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 5 of 5

Project Manager: Ken Dutton
 Company Name: Basin Environmental Service Technologies, LLC
 Company Address: P. O. Box 301
 City/State/Zip: Lovington, NM 88260
 Telephone No: (505) 441-2124
 Sampler Signature: Ken Dutton
 Project Name: Lovington Gathering WTI
 Project #: 2006-142
 Project Loc: Lea County, NM
 PO #: PAA/C, Reynolds
 Report Format: ☒ Standard ☐ TRRP ☐ NPDES
 Fax No: (505) 396-1429
 e-mail: kdutton@basinenv.com

ORDER #: <u>6306008</u>		LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Matrix										Analyze For:									
											Preservation & # of Containers										TCLP:									
											Other (Specify)										TOTAL:									
											None																			
											Ice																			
											HNO ₃																			
											HCl																			
											H ₂ SO ₄																			
											NaOH																			
											Na ₂ S ₂ O ₃																			
											Other (Specify)																			
											DW=Drinking Water SL=Sludge																			
											GW=Groundwater S=Soil/Solid																			
											MP=Non-Portable Specify Other																			
											TPH: 418.1 8015M 1005 1006																			
											Cations (Ca, Mg, Na, K)																			
											Anions (Cl, SO ₄ , CO ₃ , HCO ₃)																			
											SAR / ESP / CEC																			
											Metals: As Ag Ba Cd Cr Pb Hg Se																			
											Volatiles																			
											Semi-volatiles																			
											BTEX 8021B/5030 or RTEX 8260																			
											RCI																			
											N.O.R.M.																			
											Chlorides (EPA 300.0)																			
											RUSH TAT (Pre-Schedule) 24, 48, 72 hrs																			
											Standard TAT																			

Special Instructions: GW samples may contain Bariod Quickfoam, see attached MSDS sheet for chemical contents

Relinquished by: Ken Dutton Date: 06 Oct 06 Time: 11:20 Received by: Jandra Blackward Date: 04 Oct 06 Time: 11:20

Relinquished by: Jandra Blackward Date: 06 Oct 06 Time: 11:20 Received by: Jandra Blackward Date: 10 Oct 06 Time: 14:00

Relinquished by: Jandra Blackward Date: 06 Oct 06 Time: 2:00 Received by: Jandra Blackward Date: 10 Oct 06 Time: 14:00

Laboratory Comments:
 Sample Containers Intact? ☒ N
 VOCs Free of Headspace? ☒ N
 Custody seals on container(s) ☒ N
 Custody seals on cooler(s) ☒ N
 Sample Hand Delivered ☒ N
 by Sampler/Client Rep ☒ N
 by Courier? ☒ UPS DHL FedEx Lone Star
 Temperature Upon Receipt: 2.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains P/L / Basin Env.

Date/ Time: 10-06-06 @ 1400

Lab ID #: 6 J06008

Initials: Jmm

Sample Receipt Checklist

Client Initials

Temperature of container/ cooler?	<u>Yes</u>	No	<u>2.0</u> °C	
#2 Shipping container in good condition?	<u>Yes</u>	No		
#3 Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5 Chain of Custody present?	<u>Yes</u>	No		
#6 Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#7 Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11 Containers supplied by ELOT?	<u>Yes</u>	No		
#12 Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13 Samples properly preserved?	<u>Yes</u>	No	See Below	
#14 Sample bottles intact?	<u>Yes</u>	No		
#15 Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16 Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17 Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18 All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19 VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

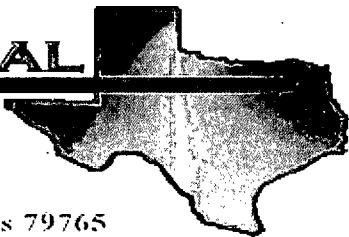
Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☐ Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lovington Gathering WTI

Project Number: SRS: 2006-142

Location: Lea County, NM

Lab Order Number: 6L01016

Report Date: 12/07/06

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4 5'	6L01016-01	Soil	11/22/06 08:48	12-01-2006 16:00
MW-4 10'	6L01016-02	Soil	11/22/06 08:55	12-01-2006 16:00
MW-4 15'	6L01016-03	Soil	11/22/06 09:01	12-01-2006 16:00
MW-4 20'	6L01016-04	Soil	11/22/06 09:22	12-01-2006 16:00
MW-4 25'	6L01016-05	Soil	11/22/06 09:26	12-01-2006 16:00
MW-4 35'	6L01016-06	Soil	11/22/06 09:37	12-01-2006 16:00
MW-4 45'	6L01016-07	Soil	11/22/06 09:43	12-01-2006 16:00
MW-4 55'	6L01016-08	Soil	11/22/06 09:53	12-01-2006 16:00
MW-4 65'	6L01016-09	Soil	11/22/06 10:12	12-01-2006 16:00
MW-4 75'	6L01016-10	Soil	11/22/06 10:22	12-01-2006 16:00

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 5' (6L01016-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60512	12/05/06	12/05/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		112 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60412	12/04/06	12/04/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		88.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		112 %	70-130		"	"	"	"	
MW-4 10' (6L01016-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60512	12/05/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60412	12/04/06	12/04/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		88.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		104 %	70-130		"	"	"	"	
MW-4 15' (6L01016-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60512	12/05/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		83.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60412	12/04/06	12/04/06	EPA 8015M	

Environmental Lab of Texas

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Page 2 of 12

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 15' (6L01016-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EL60412	12/04/06	12/04/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		112 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		128 %	70-130		"	"	"	"	
MW-4 20' (6L01016-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60512	12/05/06	12/05/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		118 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60412	12/04/06	12/04/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		91.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		103 %	70-130		"	"	"	"	
MW-4 25' (6L01016-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60512	12/05/06	12/05/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		115 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60412	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		91.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		103 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Page 3 of 12

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 35' (6L01016-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60512	12/05/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60412	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		88.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		98.2 %	70-130		"	"	"	"	
MW-4 45' (6L01016-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60512	12/05/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60412	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		92.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		103 %	70-130		"	"	"	"	
MW-4 55' (6L01016-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60512	12/05/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60412	12/04/06	12/05/06	EPA 8015M	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WT1
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 55' (6L01016-08) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EL60412	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		101 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		111 %	70-130		"	"	"	"	
MW-4 65' (6L01016-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60512	12/05/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		80.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60412	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		92.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		99.8 %	70-130		"	"	"	"	
MW-4 75' (6L01016-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60512	12/05/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		80.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		91.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		101 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 5' (6L01016-01) Soil									
% Moisture	1.0	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-4 10' (6L01016-02) Soil									
% Moisture	0.9	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-4 15' (6L01016-03) Soil									
% Moisture	2.6	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-4 20' (6L01016-04) Soil									
% Moisture	3.5	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-4 25' (6L01016-05) Soil									
% Moisture	3.2	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-4 35' (6L01016-06) Soil									
% Moisture	2.7	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-4 45' (6L01016-07) Soil									
% Moisture	2.5	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-4 55' (6L01016-08) Soil									
% Moisture	2.3	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-4 65' (6L01016-09) Soil									
% Moisture	3.8	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-4 75' (6L01016-10) Soil									
% Moisture	6.3	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EL60412 - Solvent Extraction (GC)

Blank (EL60412-BLK1)

Prepared & Analyzed: 12/04/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	46.0		mg/kg	50.0		92.0	70-130			
Surrogate: 1-Chlorooctadecane	53.3		"	50.0		107	70-130			

LCS (EL60412-BS1)

Prepared & Analyzed: 12/04/06

Carbon Ranges C6-C12	440	10.0	mg/kg wet	500		88.0	75-125			
Carbon Ranges C12-C28	424	10.0	"	500		84.8	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	864	10.0	"	1000		86.4	75-125			
Surrogate: 1-Chlorooctane	56.9		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	55.7		"	50.0		111	70-130			

Calibration Check (EL60412-CCV1)

Prepared: 12/04/06 Analyzed: 12/05/06

Carbon Ranges C6-C12	216		mg/kg	250		86.4	80-120			
Carbon Ranges C12-C28	246		"	250		98.4	80-120			
Total Hydrocarbons	462		"	500		92.4	80-120			
Surrogate: 1-Chlorooctane	51.7		"	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	54.9		"	50.0		110	70-130			

Matrix Spike (EL60412-MS1)

Source: 6L01011-01

Prepared: 12/04/06 Analyzed: 12/05/06

Carbon Ranges C6-C12	473	10.0	mg/kg dry	531	ND	89.1	75-125			
Carbon Ranges C12-C28	406	10.0	"	531	ND	76.5	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	985	10.0	"	1060	ND	92.9	75-125			
Surrogate: 1-Chlorooctane	57.5		mg/kg	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	52.9		"	50.0		106	70-130			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL60412 - Solvent Extraction (GC)

Matrix Spike Dup (EL60412-MSD1)

Source: 6L01011-01

Prepared: 12/04/06 Analyzed: 12/05/06

Carbon Ranges C6-C12	481	10.0	mg/kg dry	531	ND	90.6	75-125	1.68	20	
Carbon Ranges C12-C28	415	10.0	"	531	ND	78.2	75-125	2.19	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	896	10.0	"	1060	ND	84.5	75-125	9.46	20	
Surrogate: 1-Chlorooctane	59.2		mg/kg	50.0		118	70-130			
Surrogate: 1-Chlorooctadecane	53.9		"	50.0		108	70-130			

Batch EL60413 - Solvent Extraction (GC)

Blank (EL60413-BLK1)

Prepared: 12/04/06 Analyzed: 12/05/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	49.0		mg/kg	50.0		98.0	70-130			
Surrogate: 1-Chlorooctadecane	52.9		"	50.0		106	70-130			

LCS (EL60413-BS1)

Prepared: 12/04/06 Analyzed: 12/05/06

Carbon Ranges C6-C12	453	10.0	mg/kg wet	500		90.6	75-125			
Carbon Ranges C12-C28	416	10.0	"	500		83.2	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	869	10.0	"	1000		86.9	75-125			
Surrogate: 1-Chlorooctane	58.7		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	54.2		"	50.0		108	70-130			

Calibration Check (EL60413-CCV1)

Prepared: 12/04/06 Analyzed: 12/05/06

Carbon Ranges C6-C12	209		mg/kg	250		83.6	80-120			
Carbon Ranges C12-C28	249		"	250		99.6	80-120			
Total Hydrocarbons	458		"	500		91.6	80-120			
Surrogate: 1-Chlorooctane	51.6		"	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	51.4		"	50.0		103	70-130			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL60413 - Solvent Extraction (GC)

Matrix Spike (EL60413-MS1)		Source: 6L01016-10		Prepared: 12/04/06		Analyzed: 12/05/06	
Carbon Ranges C6-C12	705	10.0	mg/kg dry	640	ND	110	75-125
Carbon Ranges C12-C28	636	10.0	"	640	ND	99.4	75-125
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125
Total Hydrocarbons	1340	10.0	"	1280	ND	105	75-125
Surrogate: 1-Chlorooctane	74.3		mg/kg	100		74.3	70-130
Surrogate: 1-Chlorooctadecane	78.1		"	100		78.1	70-130

Matrix Spike Dup (EL60413-MSD1)	Source: 6L01016-10			Prepared: 12/04/06		Analyzed: 12/06/06			
Carbon Ranges C6-C12	656	10.0	mg/kg dry	640	ND	102	75-125	7.20	20
Carbon Ranges C12-C28	593	10.0	"	640	ND	92.7	75-125	7.00	20
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20
Total Hydrocarbons	1250	10.0	"	1280	ND	97.7	75-125	6.95	20
Surrogate: 1-Chlorooctane	70.8		mg/kg	100		70.8	70-130		
Surrogate: 1-Chlorooctadecane	71.2		"	100		71.2	70-130		

Batch EL60512 - EPA 5030C (GC)

Blank (EL60512-BLK1)		Prepared & Analyzed: 12/05/06	
Benzene	ND	0.0250	mg/kg wet
Toluene	ND	0.0250	"
Ethylbenzene	ND	0.0250	"
Xylene (p/m)	ND	0.0250	"
Xylene (o)	ND	0.0250	"
Surrogate: a,a,a-Trifluorotoluene	47.2		ug/kg
Surrogate: 4-Bromofluorobenzene	44.9		"

LCS (EL60512-BS1)		Prepared & Analyzed: 12/05/06	
Benzene	1.16	0.0250	mg/kg wet
Toluene	1.20	0.0250	"
Ethylbenzene	1.45	0.0250	"
Xylene (p/m)	2.51	0.0250	"
Xylene (o)	1.14	0.0250	"
Surrogate: a,a,a-Trifluorotoluene	39.6		ug/kg
Surrogate: 4-Bromofluorobenzene	43.4		"

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL60512 - EPA 5030C (GC)

Calibration Check (EL60512-CCV1)

Prepared & Analyzed: 12/05/06

Benzene	44.9		ug/kg	50.0		89.8	80-120			
Toluene	43.7		"	50.0		87.4	80-120			
Ethylbenzene	44.2		"	50.0		88.4	80-120			
Xylene (p/m)	85.4		"	100		85.4	80-120			
Xylene (o)	43.4		"	50.0		86.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.7		"	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	34.0		"	40.0		85.0	80-120			

Matrix Spike (EL60512-MS1)

Source: 6L01016-01

Prepared: 12/05/06 Analyzed: 12/06/06

Benzene	1.15	0.0250	mg/kg dry	1.26	ND	91.3	80-120			
Toluene	1.10	0.0250	"	1.26	ND	87.3	80-120			
Ethylbenzene	1.33	0.0250	"	1.26	ND	106	80-120			
Xylene (p/m)	2.11	0.0250	"	2.53	ND	83.4	80-120			
Xylene (o)	1.02	0.0250	"	1.26	ND	81.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	33.4		ug/kg	40.0		83.5	80-120			
Surrogate: 4-Bromofluorobenzene	35.2		"	40.0		88.0	80-120			

Matrix Spike Dup (EL60512-MSD1)

Source: 6L01016-01

Prepared: 12/05/06 Analyzed: 12/06/06

Benzene	1.30	0.0250	mg/kg dry	1.26	ND	103	80-120	12.0	20	
Toluene	1.29	0.0250	"	1.26	ND	102	80-120	15.5	20	
Ethylbenzene	1.36	0.0250	"	1.26	ND	108	80-120	1.87	20	
Xylene (p/m)	2.46	0.0250	"	2.53	ND	97.2	80-120	15.3	20	
Xylene (o)	1.23	0.0250	"	1.26	ND	97.6	80-120	18.6	20	
Surrogate: a,a,a-Trifluorotoluene	37.6		ug/kg	40.0		94.0	80-120			
Surrogate: 4-Bromofluorobenzene	36.9		"	40.0		92.2	80-120			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL60505 - General Preparation (Prep)

Blank (EL60505-BLK1)

Prepared: 12/04/06 Analyzed: 12/05/06

% Solids 99.8 %

Duplicate (EL60505-DUP1)

Source: 6L04005-01

Prepared: 12/04/06 Analyzed: 12/05/06

% Solids 95.7 % 96.5 0.832 20

Duplicate (EL60505-DUP2)

Source: 6L01019-01

Prepared: 12/04/06 Analyzed: 12/05/06

% Solids 94.4 % 95.0 0.634 20

Duplicate (EL60505-DUP3)

Source: 6L01019-21

Prepared: 12/04/06 Analyzed: 12/05/06

% Solids 95.2 % 95.3 0.105 20

Duplicate (EL60505-DUP4)

Source: 6L04012-11

Prepared: 12/04/06 Analyzed: 12/05/06

% Solids 99.7 % 99.7 0.00 20

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

12/7/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 12/1/06 4:00

Lab ID #: 6L01016

Initials: OK

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	Yes	No	3.0 °C	
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by ELOT?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	<u>Not Applicable</u>	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

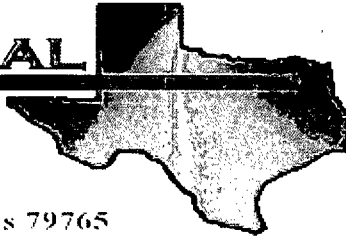
Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☐ Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lovington Gathering WTI

Project Number: SRS: 2006-142

Location: Lea County, NM

Lab Order Number: 6L01019

Report Date: 12/08/06

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5 5'	6L01019-01	Soil	11/27/06 10:07	12-01-2006 16:00
MW-5 10'	6L01019-02	Soil	11/27/06 10:15	12-01-2006 16:00
MW-5 15'	6L01019-03	Soil	11/27/06 10:21	12-01-2006 16:00
MW-5 20'	6L01019-04	Soil	11/27/06 10:30	12-01-2006 16:00
MW-5 25'	6L01019-05	Soil	11/27/06 10:35	12-01-2006 16:00
MW-5 35'	6L01019-06	Soil	11/27/06 10:42	12-01-2006 16:00
MW-5 45'	6L01019-07	Soil	11/27/06 10:52	12-01-2006 16:00
MW-5 55'	6L01019-08	Soil	11/27/06 10:55	12-01-2006 16:00
MW-5 65'	6L01019-09	Soil	11/27/06 11:04	12-01-2006 16:00
MW-5 75'	6L01019-10	Soil	11/27/06 11:11	12-01-2006 16:00
MW-6 5'	6L01019-11	Soil	11/27/06 14:21	12-01-2006 16:00
MW-6 10'	6L01019-12	Soil	11/27/06 14:26	12-01-2006 16:00
MW-6 15'	6L01019-13	Soil	11/27/06 14:30	12-01-2006 16:00
MW-6 20'	6L01019-14	Soil	11/27/06 14:36	12-01-2006 16:00
MW-6 25'	6L01019-15	Soil	11/27/06 14:40	12-01-2006 16:00
MW-6 35'	6L01019-16	Soil	11/27/06 14:48	12-01-2006 16:00
MW-6 45'	6L01019-17	Soil	11/27/06 14:52	12-01-2006 16:00
MW-6 55'	6L01019-18	Soil	11/27/06 14:59	12-01-2006 16:00
MW-6 65'	6L01019-19	Soil	11/27/06 15:20	12-01-2006 16:00
MW-6 75'	6L01019-20	Soil	11/28/06 09:00	12-01-2006 16:00
MW-7 5'	6L01019-21	Soil	11/28/06 13:50	12-01-2006 16:00
MW-7 10'	6L01019-22	Soil	11/28/06 13:55	12-01-2006 16:00
MW-7 15'	6L01019-23	Soil	11/28/06 14:00	12-01-2006 16:00
MW-7 20'	6L01019-24	Soil	11/28/06 14:04	12-01-2006 16:00
MW-7 25'	6L01019-25	Soil	11/28/06 14:07	12-01-2006 16:00
MW-7 35'	6L01019-26	Soil	11/28/06 14:15	12-01-2006 16:00
MW-7 45'	6L01019-27	Soil	11/28/06 14:23	12-01-2006 16:00
MW-7 55'	6L01019-28	Soil	11/28/06 14:30	12-01-2006 16:00
MW-7 65'	6L01019-29	Soil	11/28/06 14:39	12-01-2006 16:00
MW-7 75'	6L01019-30	Soil	11/28/06 14:45	12-01-2006 16:00

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 5' (6L01019-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		104 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		96.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		102 %	70-130		"	"	"	"	
MW-5 10' (6L01019-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		80.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		91.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		97.0 %	70-130		"	"	"	"	
MW-5 15' (6L01019-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		91.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	

Environmental Lab of Texas

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 15' (6L01019-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		86.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		92.4 %	70-130		"	"	"	"	
MW-5 20' (6L01019-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		86.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		80.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		84.2 %	70-130		"	"	"	"	
MW-5 25' (6L01019-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		107 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		86.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		89.6 %	70-130		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 35' (6L01019-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		98.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		91.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.4 %	70-130		"	"	"	"	
MW-5 45' (6L01019-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		86.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		89.0 %	70-130		"	"	"	"	
MW-5 55' (6L01019-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		103 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 55' (6L01019-08) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		88.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		90.6 %	70-130		"	"	"	"	
MW-5 65' (6L01019-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		103 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		91.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.2 %	70-130		"	"	"	"	
MW-5 75' (6L01019-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		104 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60413	12/04/06	12/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		89.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		90.0 %	70-130		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 5' (6L01019-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		98.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		99.0 %	70-130		"	"	"	"	
MW-6 10' (6L01019-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		91.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		90.0 %	70-130		"	"	"	"	
MW-6 15' (6L01019-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		91.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	

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Plains All American EH & S
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Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 15' (6L01019-13) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		88.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		85.0 %	70-130		"	"	"	"	
MW-6 20' (6L01019-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		98.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		90.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		88.4 %	70-130		"	"	"	"	
MW-6 25' (6L01019-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		92.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		91.2 %	70-130		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 35' (6L01019-16) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		90.8 %	70-130		"	"	"	"	
MW-6 45' (6L01019-17) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60618	12/06/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		90.0 %	70-130		"	"	"	"	
MW-6 55' (6L01019-18) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60701	12/06/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 55' (6L01019-18) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		120 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		121 %	70-130		"	"	"	"	
MW-6 65' (6L01019-19) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60701	12/07/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		86.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		101 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		99.4 %	70-130		"	"	"	"	
MW-6 75' (6L01019-20) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60701	12/07/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		83.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		89.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		88.4 %	70-130		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 5' (6L01019-21) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60701	12/07/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		95.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		91.4 %	70-130		"	"	"	"	
MW-7 10' (6L01019-22) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60701	12/07/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		86.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		92.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		88.6 %	70-130		"	"	"	"	
MW-7 15' (6L01019-23) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60701	12/07/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		80.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 15' (6L01019-23) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		88.6 %	70-130		"	"	"	"	
MW-7 20' (6L01019-24) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60701	12/07/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		87.8 %	70-130		"	"	"	"	
MW-7 25' (6L01019-25) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60701	12/07/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		92.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		87.6 %	70-130		"	"	"	"	

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 35' (6L01019-26) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60701	12/07/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		84.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		91.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		86.2 %	70-130		"	"	"	"	
MW-7 45' (6L01019-27) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60701	12/07/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		91.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		85.2 %	70-130		"	"	"	"	
MW-7 55' (6L01019-28) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60701	12/07/06	12/07/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 55' (6L01019-28) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		92.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		85.8 %	70-130		"	"	"	"	
MW-7 65' (6L01019-29) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60701	12/07/06	12/08/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		91.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		87.0 %	70-130		"	"	"	"	
MW-7 75' (6L01019-30) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL60701	12/07/06	12/08/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EL60414	12/04/06	12/06/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		80.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		73.8 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 5' (6L01019-01) Soil									
% Moisture	5.0	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-5 10' (6L01019-02) Soil									
% Moisture	1.5	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-5 15' (6L01019-03) Soil									
% Moisture	1.5	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-5 20' (6L01019-04) Soil									
% Moisture	1.6	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-5 25' (6L01019-05) Soil									
% Moisture	3.1	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-5 35' (6L01019-06) Soil									
% Moisture	3.6	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-5 45' (6L01019-07) Soil									
% Moisture	4.1	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-5 55' (6L01019-08) Soil									
% Moisture	3.8	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-5 65' (6L01019-09) Soil									
% Moisture	3.9	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-5 75' (6L01019-10) Soil									
% Moisture	5.3	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-6 5' (6L01019-11) Soil									
% Moisture	3.6	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	

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Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
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General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 10' (6L01019-12) Soil									
% Moisture	4.6	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-6 15' (6L01019-13) Soil									
% Moisture	3.4	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-6 20' (6L01019-14) Soil									
% Moisture	3.3	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-6 25' (6L01019-15) Soil									
% Moisture	3.7	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-6 35' (6L01019-16) Soil									
% Moisture	3.2	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-6 45' (6L01019-17) Soil									
% Moisture	3.6	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-6 55' (6L01019-18) Soil									
% Moisture	3.9	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-6 65' (6L01019-19) Soil									
% Moisture	3.9	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-6 75' (6L01019-20) Soil									
% Moisture	9.1	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-7 5' (6L01019-21) Soil									
% Moisture	4.7	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-7 10' (6L01019-22) Soil									
% Moisture	4.5	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	

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General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 15' (6L01019-23) Soil									
% Moisture	7.2	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-7 20' (6L01019-24) Soil									
% Moisture	8.2	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-7 25' (6L01019-25) Soil									
% Moisture	4.7	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-7 35' (6L01019-26) Soil									
% Moisture	4.4	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-7 45' (6L01019-27) Soil									
% Moisture	3.8	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-7 55' (6L01019-28) Soil									
% Moisture	4.5	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-7 65' (6L01019-29) Soil									
% Moisture	4.7	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	
MW-7 75' (6L01019-30) Soil									
% Moisture	5.5	0.1	%	1	EL60505	12/04/06	12/05/06	% calculation	

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Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL60413 - Solvent Extraction (GC)

Blank (EL60413-BLK1)

Prepared: 12/04/06 Analyzed: 12/05/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	49.0		mg/kg	50.0		98.0	70-130			
Surrogate: 1-Chlorooctadecane	52.9		"	50.0		106	70-130			

LCS (EL60413-BS1)

Prepared: 12/04/06 Analyzed: 12/05/06

Carbon Ranges C6-C12	453	10.0	mg/kg wet	500		90.6	75-125			
Carbon Ranges C12-C28	416	10.0	"	500		83.2	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	869	10.0	"	1000		86.9	75-125			
Surrogate: 1-Chlorooctane	58.7		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	54.2		"	50.0		108	70-130			

Calibration Check (EL60413-CCV1)

Prepared: 12/04/06 Analyzed: 12/05/06

Carbon Ranges C6-C12	209		mg/kg	250		83.6	80-120			
Carbon Ranges C12-C28	249		"	250		99.6	80-120			
Total Hydrocarbons	458		"	500		91.6	80-120			
Surrogate: 1-Chlorooctane	51.6		"	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	51.4		"	50.0		103	70-130			

Matrix Spike (EL60413-MS1)

Source: 6L01016-10

Prepared: 12/04/06 Analyzed: 12/05/06

Carbon Ranges C6-C12	705	10.0	mg/kg dry	640	ND	110	75-125			
Carbon Ranges C12-C28	636	10.0	"	640	ND	99.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1340	10.0	"	1280	ND	105	75-125			
Surrogate: 1-Chlorooctane	74.3		mg/kg	100		74.3	70-130			
Surrogate: 1-Chlorooctadecane	78.1		"	100		78.1	70-130			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL60413 - Solvent Extraction (GC)

Matrix Spike Dup (EL60413-MSD1)

Source: 6L01016-10

Prepared: 12/04/06 Analyzed: 12/06/06

Carbon Ranges C6-C12	656	10.0	mg/kg dry	640	ND	102	75-125	7.20	20	
Carbon Ranges C12-C28	593	10.0	"	640	ND	92.7	75-125	7.00	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1250	10.0	"	1280	ND	97.7	75-125	6.95	20	
Surrogate: 1-Chlorooctane	70.8		mg/kg	100		70.8	70-130			
Surrogate: 1-Chlorooctadecane	71.2		"	100		71.2	70-130			

Batch EL60414 - Solvent Extraction (GC)

Blank (EL60414-BLK1)

Prepared: 12/04/06 Analyzed: 12/06/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.2	70-130			
Surrogate: 1-Chlorooctadecane	47.4		"	50.0		94.8	70-130			

LCS (EL60414-BS1)

Prepared: 12/04/06 Analyzed: 12/06/06

Carbon Ranges C6-C12	452	10.0	mg/kg wet	500		90.4	75-125			
Carbon Ranges C12-C28	415	10.0	"	500		83.0	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	867	10.0	"	1000		86.7	75-125			
Surrogate: 1-Chlorooctane	58.3		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	51.0		"	50.0		102	70-130			

Calibration Check (EL60414-CCV1)

Prepared: 12/04/06 Analyzed: 12/06/06

Carbon Ranges C6-C12	226		mg/kg	250		90.4	80-120			
Carbon Ranges C12-C28	265		"	250		106	80-120			
Total Hydrocarbons	491		"	500		98.2	80-120			
Surrogate: 1-Chlorooctane	52.5		"	50.0		105	70-130			
Surrogate: 1-Chlorooctadecane	47.5		"	50.0		95.0	70-130			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL60414 - Solvent Extraction (GC)

Matrix Spike (EL60414-MS1)

Source: 6L01019-11

Prepared: 12/04/06 Analyzed: 12/06/06

Carbon Ranges C6-C12	436	10.0	mg/kg dry	519	ND	84.0	75-125			
Carbon Ranges C12-C28	401	10.0	"	519	ND	77.3	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	837	10.0	"	1040	ND	80.5	75-125			
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.2	70-130			
Surrogate: 1-Chlorooctadecane	42.3		"	50.0		84.6	70-130			

Matrix Spike Dup (EL60414-MSD1)

Source: 6L01019-11

Prepared: 12/04/06 Analyzed: 12/06/06

Carbon Ranges C6-C12	437	10.0	mg/kg dry	519	ND	84.2	75-125	0.229	20	
Carbon Ranges C12-C28	404	10.0	"	519	ND	77.8	75-125	0.745	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	841	10.0	"	1040	ND	80.9	75-125	0.477	20	
Surrogate: 1-Chlorooctane	54.9		mg/kg	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	44.2		"	50.0		88.4	70-130			

Batch EL60618 - EPA 5030C (GC)

Blank (EL60618-BLK1)

Prepared & Analyzed: 12/06/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	38.7		ug/kg	40.0		96.8	80-120			
Surrogate: 4-Bromofluorobenzene	35.5		"	40.0		88.8	80-120			

LCS (EL60618-BS1)

Prepared & Analyzed: 12/06/06

Benzene	1.13	0.0250	mg/kg wet	1.25		90.4	80-120			
Toluene	1.14	0.0250	"	1.25		91.2	80-120			
Ethylbenzene	1.23	0.0250	"	1.25		98.4	80-120			
Xylene (p/m)	2.22	0.0250	"	2.50		88.8	80-120			
Xylene (o)	1.12	0.0250	"	1.25		89.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	32.3		ug/kg	40.0		80.8	80-120			
Surrogate: 4-Bromofluorobenzene	36.2		"	40.0		90.5	80-120			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL60618 - EPA 5030C (GC)

Calibration Check (EL60618-CCV1)

Prepared & Analyzed: 12/06/06

Benzene	54.8		ug/kg	50.0		110	80-120			
Toluene	53.1		"	50.0		106	80-120			
Ethylbenzene	56.0		"	50.0		112	80-120			
Xylene (p/m)	98.5		"	100		98.5	80-120			
Xylene (o)	51.6		"	50.0		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.7		"	40.0		94.2	80-120			
Surrogate: 4-Bromofluorobenzene	36.8		"	40.0		92.0	80-120			

Matrix Spike (EL60618-MS1)

Source: 6L01018-03

Prepared: 12/06/06 Analyzed: 12/07/06

Benzene	1.49	0.0250	mg/kg dry	1.42	ND	105	80-120			
Toluene	1.55	0.0250	"	1.42	ND	109	80-120			
Ethylbenzene	1.65	0.0250	"	1.42	ND	116	80-120			
Xylene (p/m)	2.99	0.0250	"	2.85	ND	105	80-120			
Xylene (o)	1.56	0.0250	"	1.42	ND	110	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.1		ug/kg	40.0		85.2	80-120			
Surrogate: 4-Bromofluorobenzene	47.1		"	40.0		118	80-120			

Matrix Spike Dup (EL60618-MSD1)

Source: 6L01018-03

Prepared: 12/06/06 Analyzed: 12/07/06

Benzene	1.53	0.0250	mg/kg dry	1.42	ND	108	80-120	2.82	20	
Toluene	1.57	0.0250	"	1.42	ND	111	80-120	1.82	20	
Ethylbenzene	1.68	0.0250	"	1.42	ND	118	80-120	1.71	20	
Xylene (p/m)	3.07	0.0250	"	2.85	ND	108	80-120	2.82	20	
Xylene (o)	1.58	0.0250	"	1.42	ND	111	80-120	0.905	20	
Surrogate: a,a,a-Trifluorotoluene	37.1		ug/kg	40.0		92.8	80-120			
Surrogate: 4-Bromofluorobenzene	47.1		"	40.0		118	80-120			

Batch EL60701 - EPA 5030C (GC)

Blank (EL60701-BLK1)

Prepared & Analyzed: 12/07/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	33.0		ug/kg	40.0		82.5	80-120			
Surrogate: 4-Bromofluorobenzene	34.0		"	40.0		85.0	80-120			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL60701 - EPA 5030C (GC)

LCS (EL60701-BS1)

Prepared & Analyzed: 12/07/06

Benzene	1.26	0.0250	mg/kg wet	1.25		101	80-120			
Toluene	1.26	0.0250	"	1.25		101	80-120			
Ethylbenzene	1.31	0.0250	"	1.25		105	80-120			
Xylene (p/m)	2.43	0.0250	"	2.50		97.2	80-120			
Xylene (o)	1.24	0.0250	"	1.25		99.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.3		ug/kg	40.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	41.2		"	40.0		103	80-120			

Calibration Check (EL60701-CCV1)

Prepared: 12/07/06 Analyzed: 12/08/06

Benzene	46.0		ug/kg	50.0		92.0	80-120			
Toluene	46.9		"	50.0		93.8	80-120			
Ethylbenzene	50.4		"	50.0		101	80-120			
Xylene (p/m)	91.7		"	100		91.7	80-120			
Xylene (o)	45.3		"	50.0		90.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.2		"	40.0		93.0	80-120			
Surrogate: 4-Bromofluorobenzene	35.8		"	40.0		89.5	80-120			

Matrix Spike (EL60701-MS1)

Source: 6L01019-19

Prepared & Analyzed: 12/07/06

Benzene	1.29	0.0250	mg/kg dry	1.30	ND	99.2	80-120			
Toluene	1.30	0.0250	"	1.30	ND	100	80-120			
Ethylbenzene	1.37	0.0250	"	1.30	ND	105	80-120			
Xylene (p/m)	2.49	0.0250	"	2.60	ND	95.8	80-120			
Xylene (o)	1.26	0.0250	"	1.30	ND	96.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.7		ug/kg	40.0		89.2	80-120			
Surrogate: 4-Bromofluorobenzene	43.5		"	40.0		109	80-120			

Matrix Spike Dup (EL60701-MSD1)

Source: 6L01019-19

Prepared: 12/07/06 Analyzed: 12/08/06

Benzene	1.21	0.0250	mg/kg dry	1.30	ND	93.1	80-120	6.34	20	
Toluene	1.26	0.0250	"	1.30	ND	96.9	80-120	3.15	20	
Ethylbenzene	1.37	0.0250	"	1.30	ND	105	80-120	0.00	20	
Xylene (p/m)	2.46	0.0250	"	2.60	ND	94.6	80-120	1.26	20	
Xylene (o)	1.23	0.0250	"	1.30	ND	94.6	80-120	2.40	20	
Surrogate: a,a,a-Trifluorotoluene	38.1		ug/kg	40.0		95.2	80-120			
Surrogate: 4-Bromofluorobenzene	36.4		"	40.0		91.0	80-120			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL60505 - General Preparation (Prep)

Blank (EL60505-BLK1)

Prepared: 12/04/06 Analyzed: 12/05/06

% Solids	99.8		%							
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Duplicate (EL60505-DUP1)

Source: 6L04005-01

Prepared: 12/04/06 Analyzed: 12/05/06

% Solids	95.7		%		96.5			0.832	20	
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Duplicate (EL60505-DUP2)

Source: 6L01019-01

Prepared: 12/04/06 Analyzed: 12/05/06

% Solids	94.4		%		95.0			0.634	20	
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Duplicate (EL60505-DUP3)

Source: 6L01019-21

Prepared: 12/04/06 Analyzed: 12/05/06

% Solids	95.2		%		95.3			0.105	20	
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Duplicate (EL60505-DUP4)

Source: 6L04012-11

Prepared: 12/04/06 Analyzed: 12/05/06

% Solids	99.7		%		99.7			0.00	20	
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Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

12/8/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 23 of 23

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

PAGE 01 OF 03

Project Name: Lovington Gathering WTI

Company Name: Basin Environmental Service Technologies, LLC

Project #: 2006-142

Company Address: P. O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: PAA - C. J. Reynolds

Telephone No: (505) 441-24124

Fax No: (505) 396-1429

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Ken Dutton

e-mail: kad@basinenv.com

(lab use only)

ORDER #: 0601019

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₈	None	Other (Specify)	DW=Drinking Water	SL=Sludge	GW = Groundwater	S=Soil/Solid	NP=Non-Petroleum	Specify Other	TPH: 418.1 8015M / 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg S	Volatiles	Semivolatiles	BTX 8021B/5030 or BTX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

Special Instructions:

Laboratory Comments:

Relinquished by: <u>Ken Dutton</u>	Date: <u>30 Nov 06</u>	Time: <u>1630</u>	Received by: <u>Jynda Blackwood</u>	Date: <u>Nov 30, 06</u>	Time: <u>4:30</u>
Relinquished by: <u>Jynda Blackwood</u>	Date: <u>Dec 06</u>	Time: <u>4:00</u>	Received by: <u>Ken Dutton</u>	Date: <u>12/06</u>	Time: <u>4:00</u>

Sample Containers: 20
VOCs Free of Headspace? ☒
Labels on container(s) ☒
Custody seals on container(s) ☒
Custody seals on cooler(s) ☒
Sample Hand Delivered ☒
by Sample/Client Rep. ? ☒
by Carrier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star
Temperature Upon Receipt: 3.0 °C

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

PAGE 02 OF 03

Project Name: Lovington Gathering WTI

Project Manager: Ken Dutton

Company Name: Basin Environmental Service Technologies, LLC

Project #: 2006-142

Company Address: P. O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: PAA - C. J. Reynolds

Telephone No: (505) 441-24124

Fax No: (505) 396-1429

Sampler Signature: *Ken Dutton*

e-mail: kad@basinenv.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: 6201019

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW = Drinking Water SL = Sludge GW = Groundwater S = Soil/Solid	NP = Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg S	Volatiles	Semivolatiles	ROI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
11	MW-6 5'	0	5'	27-Nov-06	1421		1	X								SOIL			X							X				X
12	MW-6 10'	5'	10'	27-Nov-06	1426		1	X								SOIL			X							X				X
13	MW-6 15'	10'	15'	27-Nov-06	1430		1	X								SOIL			X							X				X
14	MW-6 20'	15'	20'	27-Nov-06	1436		1	X								SOIL			X							X				X
15	MW-6 25'	20'	25'	27-Nov-06	1440		1	X								SOIL			X							X				X
16	MW-6 35'	30'	35'	27-Nov-06	1448		1	X								SOIL			X							X				X
17	MW-6 45'	40'	45'	27-Nov-06	1452		1	X								SOIL			X							X				X
18	MW-6 55'	50'	55'	27-Nov-06	1459		1	X								SOIL			X							X				X
19	MW-6 65'	60'	65'	27-Nov-06	1520		1	X								SOIL			X							X				X
20	MW-6 75'	70'	75'	28-Nov-06	0900		1	X								SOIL			X							X				X

Special Instructions:

Laboratory Comments:

Relinquished by: <i>Ken Dutton</i>	Date: 30 Nov 06	Time: 1630	Received by: <i>Linda Blackwood</i>	Date: Nov 30, 06	Time: 1430
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: <i>Linda Blackwood</i>	Date: Dec 1, 06	Time: 4:00	Received by: <i>Linda Blackwood</i>	Date: 12/1/06	Time: 4:00

Sample Containers Intact? ☒ N
VOCs Free of Headspace? ☒ N
Labels on container(s) ☒ N
Custody seals on container(s) ☒ N
Custody seals on cooler(s) ☒ N
Sample Hand Delivered ☒ N
by *Basin Env* Client Rep. ? ☒ N
by *Basin Env* UPS ☒ N
by *Basin Env* DHL ☒ N
Temperature Upon Receipt: 31.0 °C

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Plains
Date/ Time: 12/1/06 4:00
Lab ID #: 6L01019
Initials: CK

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	Yes	No	3.0 °C	
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by ELOT?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

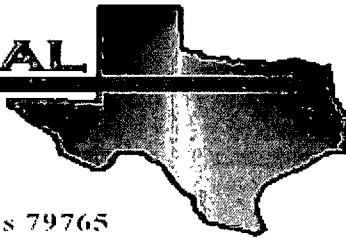
Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☐ Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lovington Gathering WTI

Project Number: SRS: 2006-142

Location: Lea County, NM

Lab Order Number: 6L29011

Report Date: 01/02/07

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6L29011-01	Water	12/28/06 08:00	12-29-2006 14:00
MW-4	6L29011-02	Water	12/28/06 09:15	12-29-2006 14:00
MW-5	6L29011-03	Water	12/28/06 10:25	12-29-2006 14:00
MW-6	6L29011-04	Water	12/28/06 11:30	12-29-2006 14:00
MW-7	6L29011-05	Water	12/28/06 12:50	12-29-2006 14:00
MW-2	6L29011-06	Water	12/28/06 14:00	12-29-2006 14:00
MW-3	6L29011-07	Water	12/28/06 15:15	12-29-2006 14:00

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1301 S. County Road 1150
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Project: Lovington Gathering WTI
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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6L29011-01) Water									
Benzene	ND	0.00100	mg/L	1	EL63101	12/31/06	12/31/06	EPA 8021B	
Toluene	I [0.000583]	0.00100	"	"	"	"	"	"	
Ethylbenzene	I [0.000454]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00222	0.00100	"	"	"	"	"	"	
Xylene (o)	I [0.000796]	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	80-120		"	"	"	"	
MW-4 (6L29011-02) Water									
Benzene	ND	0.00100	mg/L	1	EL63101	12/31/06	01/01/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	80-120		"	"	"	"	
MW-5 (6L29011-03) Water									
Benzene	ND	0.00100	mg/L	1	EL63101	12/31/06	01/01/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	80-120		"	"	"	"	
MW-6 (6L29011-04) Water									
Benzene	ND	0.00100	mg/L	1	EL63101	12/31/06	01/01/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		90.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.5 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (6L29011-05) Water									
Benzene	0.0473	0.00100	mg/L	1	EL63101	12/31/06	01/01/07	EPA 8021B	
Toluene	J [0.000357]	0.00100	"	"	"	"	"	"	
Ethylbenzene	J [0.000202]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00130	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		93.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		"	"	"	"	
MW-2 (6L29011-06) Water									
Benzene	0.161	0.00100	mg/L	1	EL63101	12/31/06	01/01/07	EPA 8021B	
Toluene	J [0.000389]	0.00100	"	"	"	"	"	"	
Ethylbenzene	J [0.000242]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.0248	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.5 %	80-120		"	"	"	"	
MW-3 (6L29011-07) Water									
Benzene	1.02	0.00500	mg/L	5	EL63101	12/31/06	01/01/07	EPA 8021B	
Toluene	J [0.00339]	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.00533	0.00500	"	"	"	"	"	"	
Xylene (p/m)	0.0280	0.00500	"	"	"	"	"	"	
Xylene (o)	J [0.00479]	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.5 %	80-120		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL63101 - EPA 5030C (GC)

Blank (EL63101-BLK1)

Prepared: 12/31/06 Analyzed: 01/01/07

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	36.1		ug/l	40.0		90.2	80-120			
Surrogate: 4-Bromofluorobenzene	37.0		"	40.0		92.5	80-120			

LCS (EL63101-BS1)

Prepared: 12/31/06 Analyzed: 01/01/07

Benzene	0.0455	0.00100	mg/L	0.0500		91.0	80-120			
Toluene	0.0472	0.00100	"	0.0500		94.4	80-120			
Ethylbenzene	0.0444	0.00100	"	0.0500		88.8	80-120			
Xylene (p/m)	0.0942	0.00100	"	0.100		94.2	80-120			
Xylene (o)	0.0439	0.00100	"	0.0500		87.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.2		ug/l	40.0		90.5	80-120			
Surrogate: 4-Bromofluorobenzene	43.5		"	40.0		109	80-120			

Calibration Check (EL63101-CCV1)

Prepared: 12/31/06 Analyzed: 01/01/07

Benzene	48.2		ug/l	50.0		96.4	80-120			
Toluene	49.3		"	50.0		98.6	80-120			
Ethylbenzene	56.4		"	50.0		113	80-120			
Xylene (p/m)	94.8		"	100		94.8	80-120			
Xylene (o)	45.3		"	50.0		90.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.8		"	40.0		94.5	80-120			
Surrogate: 4-Bromofluorobenzene	44.1		"	40.0		110	80-120			

Matrix Spike (EL63101-MS1)

Source: 6L29005-01

Prepared: 12/31/06 Analyzed: 01/01/07

Benzene	0.0470	0.00100	mg/L	0.0500	ND	94.0	80-120			
Toluene	0.0473	0.00100	"	0.0500	ND	94.6	80-120			
Ethylbenzene	0.0502	0.00100	"	0.0500	ND	100	80-120			
Xylene (p/m)	0.0959	0.00100	"	0.100	ND	95.9	80-120			
Xylene (o)	0.0441	0.00100	"	0.0500	ND	88.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.7		ug/l	40.0		89.2	80-120			
Surrogate: 4-Bromofluorobenzene	42.9		"	40.0		107	80-120			

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Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL63101 - EPA 5030C (GC)

Matrix Spike Dup (EL63101-MSD1)

Source: 6L29005-01

Prepared: 12/31/06 Analyzed: 01/01/07

Benzene	0.0461	0.00100	mg/L	0.0500	ND	92.2	80-120	1.93	20	
Toluene	0.0485	0.00100	"	0.0500	ND	97.0	80-120	2.51	20	
Ethylbenzene	0.0527	0.00100	"	0.0500	ND	105	80-120	4.88	20	
Xylene (p/m)	0.0978	0.00100	"	0.100	ND	97.8	80-120	1.96	20	
Xylene (o)	0.0458	0.00100	"	0.0500	ND	91.6	80-120	3.78	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	37.3		ug/l	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	42.6		"	40.0		106	80-120			

Plains All American EH & S
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Project: Lovington Gathering WTI
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Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

1/2/2007

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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Page 6 of 6

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton PAGE 01 OF 01

Company Name: Basin Environmental Service Technologies, LLC

Company Address: P. O. Box 301

City/State/Zip: Lovington, NM 88260

Telephone No: (505) 441-2124

Sampler Signature: [Signature]

Project Name: LOVINGTON GATHERING WTI

Project #: 2006-142

Project Loc: Lea County, NM

PO #: PAA - C. J. Reynolds

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Fax No: (505) 396-1429

e-mail: kad@basinenv.com

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Special Instructions:

Relinquished by: Ken Dutton Date: 29-Dec-06 Time: 0920

Relinquished by: [Signature] Date: 29-Dec-06 Time: 0920

Relinquished by: [Signature] Date: 29-Dec-06 Time: 200

Received by: [Signature] Date: 29-Dec-06 Time: 0920

Received by: [Signature] Date: 29-Dec-06 Time: 1400

Received by: [Signature] Date: 29-Dec-06 Time: 1400

Laboratory Comments:

Sample/Container: RG

VOCs Free of Headspace? ☒

Label on container(s) ☒

Custody seals on container(s) ☒

Custody seals on cooler(s) ☒

Sample Hand Delivered ☒

by Sampler/Client/Rep? ☒

by Courier? ☒

UPS ☒ DHL ☒ FedEx ☒ Lone Star ☒

Temperature Upon Receipt: 0.0C

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Plains P/L / Basin Env.
Date/ Time: 12-29-06 @ 1400
Lab ID #: 6L29011
Initials: JMM

Sample Receipt Checklist

Client Initials

#1 Temperature of container/ cooler?	<u>Yes</u>	No	0.0 °C	
#2 Shipping container in good condition?	<u>Yes</u>	No		
#3 Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5 Chain of Custody present?	<u>Yes</u>	No		
#6 Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7 Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8 Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11 Containers supplied by ELOT?	<u>Yes</u>	No		
#12 Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13 Samples properly preserved?	<u>Yes</u>	No	See Below	
#14 Sample bottles intact?	<u>Yes</u>	No		
#15 Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16 Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17 Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18 All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19 Subcontract of sample(s)?	<u>Yes</u>	No	Not Applicable	
#20 VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

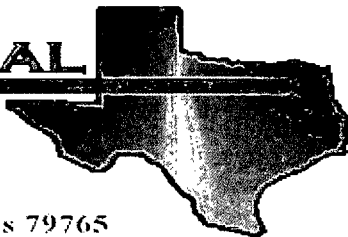
Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☐ Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lovington Gathering WTI

Project Number: 2006-142

Location: Lea County, NM

Lab Order Number: 7B09020

Report Date: 02/14/07

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-8 10'	7B09020-01	Soil	02/07/07 09:50	02-09-2007 14:36
MW-8 25'	7B09020-02	Soil	02/07/07 10:03	02-09-2007 14:36
MW-8 50'	7B09020-03	Soil	02/07/07 10:23	02-09-2007 14:36
MW-8 75'	7B09020-04	Soil	02/07/07 10:36	02-09-2007 14:36

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 10' (7B09020-01) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71005	02/10/07	02/10/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		80.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		70.0 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71006	02/10/07	02/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		90.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		90.8 %	70-130		"	"	"	"	
MW-8 25' (7B09020-02) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71005	02/10/07	02/12/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		93.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		124 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71006	02/10/07	02/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		94.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		95.2 %	70-130		"	"	"	"	
MW-8 50' (7B09020-03) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71005	02/10/07	02/12/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		136 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71006	02/10/07	02/13/07	EPA 8015M	

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 50' (7B09020-03) Soil									
Carbon Ranges C12-C28	14.0	10.0	mg/kg dry	1	EB71006	02/10/07	02/13/07	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	14.0	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		112 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		111 %	70-130		"	"	"	"	
MW-8 75' (7B09020-04) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EB71005	02/10/07	02/12/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		139 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB71006	02/10/07	02/13/07	EPA 8015M	
Carbon Ranges C12-C28	71.5	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	29.9	10.0	"	"	"	"	"	"	
Total Hydrocarbons	101	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		106 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		108 %	70-130		"	"	"	"	

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: 2006-142
Project Manager: Camille Reynolds

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General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 10' (7B09020-01) Soil									
% Moisture	2.2	0.1	%	1	EB71203	02/12/07	02/12/07	% calculation	
MW-8 25' (7B09020-02) Soil									
% Moisture	4.6	0.1	%	1	EB71203	02/12/07	02/12/07	% calculation	
MW-8 50' (7B09020-03) Soil									
% Moisture	3.4	0.1	%	1	EB71203	02/12/07	02/12/07	% calculation	
MW-8 75' (7B09020-04) Soil									
% Moisture	4.9	0.1	%	1	EB71203	02/12/07	02/12/07	% calculation	

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Project Number: 2006-142
Project Manager: Camille Reynolds

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB71005 - EPA 5030C (GC)

Blank (EB71005-BLK1)

Prepared & Analyzed: 02/10/07

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	41.9		ug/kg	50.0		83.8	80-120			
Surrogate: 4-Bromofluorobenzene	40.2		"	50.0		80.4	80-120			

LCS (EB71005-BS1)

Prepared & Analyzed: 02/10/07

Benzene	0.0522	0.00100	mg/kg wet	0.0500		104	80-120			
Toluene	0.0511	0.00100	"	0.0500		102	80-120			
Ethylbenzene	0.0475	0.00100	"	0.0500		95.0	80-120			
Xylene (p/m)	0.109	0.00100	"	0.100		109	80-120			
Xylene (o)	0.0449	0.00100	"	0.0500		89.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	46.9		ug/kg	50.0		93.8	80-120			
Surrogate: 4-Bromofluorobenzene	50.5		"	50.0		101	80-120			

Calibration Check (EB71005-CCV1)

Prepared: 02/10/07 Analyzed: 02/11/07

Benzene	54.8		ug/kg	50.0		110	80-120			
Toluene	52.4		"	50.0		105	80-120			
Ethylbenzene	50.7		"	50.0		101	80-120			
Xylene (p/m)	103		"	100		103	80-120			
Xylene (o)	43.4		"	50.0		86.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	46.7		"	50.0		93.4	80-120			
Surrogate: 4-Bromofluorobenzene	42.2		"	50.0		84.4	80-120			

Matrix Spike (EB71005-MS1)

Source: 7B09020-01

Prepared: 02/10/07 Analyzed: 02/11/07

Benzene	0.114	0.00200	mg/kg dry	0.102	ND	112	80-120			
Toluene	0.115	0.00200	"	0.102	ND	113	80-120			
Ethylbenzene	0.114	0.00200	"	0.102	ND	112	80-120			
Xylene (p/m)	0.253	0.00200	"	0.204	ND	124	80-120			M1
Xylene (o)	0.110	0.00200	"	0.102	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	43.9		ug/kg	50.0		87.8	80-120			
Surrogate: 4-Bromofluorobenzene	58.1		"	50.0		116	80-120			

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB71005 - EPA 5030C (GC)

Matrix Spike Dup (EB71005-MSD1)

Source: 7B09020-01

Prepared: 02/10/07 Analyzed: 02/11/07

Benzene	0.113	0.00200	mg/kg dry	0.102	ND	111	80-120	0.897	20	
Toluene	0.110	0.00200	"	0.102	ND	108	80-120	4.52	20	
Ethylbenzene	0.111	0.00200	"	0.102	ND	109	80-120	2.71	20	
Xylene (p/m)	0.238	0.00200	"	0.204	ND	117	80-120	5.81	20	
Xylene (o)	0.103	0.00200	"	0.102	ND	101	80-120	6.70	20	
Surrogate: a,a,a-Trifluorotoluene	45.9		ug/kg	50.0		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	56.1		"	50.0		112	80-120			

Batch EB71006 - Solvent Extraction (GC)

Blank (EB71006-BLK1)

Prepared: 02/10/07 Analyzed: 02/13/07

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	48.4		mg/kg	50.0		96.8	70-130			
Surrogate: 1-Chlorooctadecane	49.8		"	50.0		99.6	70-130			

LCS (EB71006-BS1)

Prepared: 02/10/07 Analyzed: 02/13/07

Carbon Ranges C6-C12	529	10.0	mg/kg wet	500		106	75-125			
Carbon Ranges C12-C28	524	10.0	"	500		105	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1050	10.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	55.2		mg/kg	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	49.3		"	50.0		98.6	70-130			

Calibration Check (EB71006-CCV1)

Prepared: 02/10/07 Analyzed: 02/13/07

Carbon Ranges C6-C12	216		mg/kg	250		86.4	80-120			
Carbon Ranges C28-C35	0.00		"	0.00			80-120			
Total Hydrocarbons	467		"	500		93.4	80-120			
Surrogate: 1-Chlorooctane	55.2		"	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	50.3		"	50.0		101	70-130			

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB71006 - Solvent Extraction (GC)

Matrix Spike (EB71006-MS1)

Source: 7B08015-01

Prepared: 02/10/07 Analyzed: 02/13/07

Carbon Ranges C6-C12	660	10.0	mg/kg dry	526	ND	125	75-125			
Carbon Ranges C12-C28	625	10.0	"	526	14.8	116	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1280	10.0	"	1050	14.8	120	75-125			
Surrogate: 1-Chlorooctane	59.8		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	60.5		"	50.0		121	70-130			

Matrix Spike Dup (EB71006-MSD1)

Source: 7B08015-01

Prepared: 02/10/07 Analyzed: 02/14/07

Carbon Ranges C6-C12	663	10.0	mg/kg dry	526	ND	126	75-125	0.797	20	M1
Carbon Ranges C12-C28	632	10.0	"	526	14.8	117	75-125	0.858	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1290	10.0	"	1050	14.8	121	75-125	0.830	20	
Surrogate: 1-Chlorooctane	62.0		mg/kg	50.0		124	70-130			
Surrogate: 1-Chlorooctadecane	61.2		"	50.0		122	70-130			

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EB71203 - General Preparation (Prep)

Blank (EB71203-BLK1)

Prepared & Analyzed: 02/12/07

% Solids	100	%
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Duplicate (EB71203-DUP1)

Source: 7B09017-01

Prepared & Analyzed: 02/12/07

% Solids	95.9	%	95.4	0.523	20
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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

M1 The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

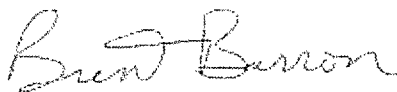
RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

2/14/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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Environmental Labor of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Ken Dutton

PAGE 01 OF 01

Project Name: LOVINGTON GATHERING WTI

Company Name

Company Name Basin Environmental Service Technologies, LLC

Project #: 2006-142

Company Address: P. O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: PAA - C, J. Reynolds

Telephone No:

Fax No: (505) 396-1429

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

kad@basineny.com

e-mail:

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Matrix	Preservation & # of Containers	Analyze For:									
											ICP	TOTAL	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	RTI	NORM	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs		
01	MW-8 10'	5	10	7-Feb-07	0950		1	X	ICP	TPH: TX 1005 TX 1006	TPH: 418.1 8015M	TPH: 418.1 8015M	TPH: TX 1005 TX 1006	TPH: TX 1005 TX 1006	TPH: TX 1005 TX 1006	TPH: TX 1005 TX 1006	TPH: TX 1005 TX 1006	TPH: TX 1005 TX 1006	TPH: TX 1005 TX 1006	
02	MW-8 25'	20	25	7-Feb-07	1003		1	X	SOIL	DW - Drinking Water SL - Sludge	DW - Drinking Water SL - Sludge	DW - Drinking Water SL - Sludge	DW - Drinking Water SL - Sludge	DW - Drinking Water SL - Sludge	DW - Drinking Water SL - Sludge	DW - Drinking Water SL - Sludge	DW - Drinking Water SL - Sludge	DW - Drinking Water SL - Sludge	DW - Drinking Water SL - Sludge	
03	MW-8 50'	45	50	7-Feb-07	1023		1	X	SOIL	Other (Specify)	Other (Specify)	Other (Specify)	Other (Specify)	Other (Specify)	Other (Specify)	Other (Specify)	Other (Specify)	Other (Specify)	Other (Specify)	
04	MW-8 75'	70	75	7-Feb-07	1036		1	X	SOIL	None	None	None	None	None	None	None	None	None	None	

Special Instructions:

Relinquished by: *Don Patton* Date: *07 Feb 07 10:15* Time: *10:15*

Relinquished by: *Don Patton* Date: *07 Feb 07 10:15* Time: *10:15*

Relinquished by: *Don Patton* Date: *07 Feb 07 10:15* Time: *10:15*

Laboratory Comments:

Sample Containers: Intact? ☒

VOCs Free of Headspace? ☒

Labels on container(s)? ☒

Custody seals on container(s)? ☒

Custody seals on cooler(s)? ☒

Sample Hand Delivered? ☒

by Sampler/Client Rep? ☒

by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star

Temperature Upon Receipt: *2:00*

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Plains
 Date/ Time: 2/9/07 1436
 Lab ID #: 7809020
 Initials: bm

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>2.0</u> °C	
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by EL0T?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	<u>Yes</u>	No	Not Applicable	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

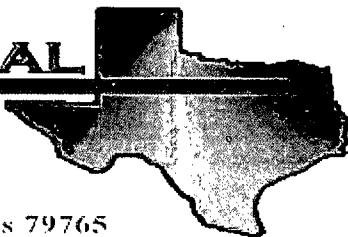
Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lovington Gathering WTI

Project Number: SRS: 2006-142

Location: Lea County, NM

Lab Order Number: 7C20004

Report Date: 03/28/07

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-8	7C20004-01	Water	03/16/07 10:56	03-20-2007 11:30
MW-1	7C20004-02	Water	03/16/07 11:30	03-20-2007 11:30
MW-4	7C20004-03	Water	03/16/07 11:55	03-20-2007 11:30
MW-5	7C20004-04	Water	03/16/07 13:10	03-20-2007 11:30
MW-6	7C20004-05	Water	03/16/07 14:10	03-20-2007 11:30
MW-7	7C20004-06	Water	03/16/07 14:50	03-20-2007 11:30
MW-2	7C20004-07	Water	03/16/07 15:25	03-20-2007 11:30
MW-3	7C20004-08	Water	03/16/07 16:20	03-20-2007 11:30

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (7C20004-01) Water									
Benzene	ND	0.00100	mg/L	1	EC72109	03/21/07	03/22/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		94.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	80-120		"	"	"	"	
MW-1 (7C20004-02) Water									
Benzene	ND	0.00100	mg/L	1	EC72601	03/26/07	03/27/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		100 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.2 %	80-120		"	"	"	"	
MW-4 (7C20004-03) Water									
Benzene	ND	0.00100	mg/L	1	EC72601	03/26/07	03/27/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		98.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.6 %	80-120		"	"	"	"	
MW-5 (7C20004-04) Water									
Benzene	ND	0.00100	mg/L	1	EC72601	03/26/07	03/27/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		97.4 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.2 %	80-120		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (7C20004-05) Water									
Benzene	ND	0.00100	mg/L	1	EC72601	03/26/07	03/27/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.8 %	80-120		"	"	"	"	
MW-7 (7C20004-06) Water									
Benzene	0.0479	0.00100	mg/L	1	EC72601	03/26/07	03/27/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.0152	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		94.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-120		"	"	"	"	
MW-2 (7C20004-07) Water									
Benzene	0.154	0.00100	mg/L	1	EC72601	03/26/07	03/27/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.0102	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.6 %	80-120		"	"	"	"	
MW-3 (7C20004-08) Water									
Benzene	1.48	0.0100	mg/L	10	EC72601	03/26/07	03/27/07	EPA 8021B	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	0.0139	0.0100	"	"	"	"	"	"	
Xylene (p/m)	0.0341	0.0100	"	"	"	"	"	"	
Xylene (o)	J [0.00252]	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.4 %	80-120		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch EC72109 - EPA 5030C (GC)

Blank (EC72109-BLK1)

Prepared: 03/21/07 Analyzed: 03/22/07

Benzene	ND	0.00100	mg/L						
Toluene	ND	0.00100	"						
Ethylbenzene	ND	0.00100	"						
Xylene (p/m)	ND	0.00100	"						
Xylene (o)	ND	0.00100	"						
Surrogate: a,a,a-Trifluorotoluene	46.7		ug/l	50.0		93.4	80-120		
Surrogate: 4-Bromofluorobenzene	44.5		"	50.0		89.0	80-120		

LCS (EC72109-BS1)

Prepared: 03/21/07 Analyzed: 03/22/07

Benzene	0.0580	0.00100	mg/L	0.0500		116	80-120		
Toluene	0.0596	0.00100	"	0.0500		119	80-120		
Ethylbenzene	0.0522	0.00100	"	0.0500		104	80-120		
Xylene (p/m)	0.119	0.00100	"	0.100		119	80-120		
Xylene (o)	0.0591	0.00100	"	0.0500		118	80-120		
Surrogate: a,a,a-Trifluorotoluene	55.5		ug/l	50.0		111	80-120		
Surrogate: 4-Bromofluorobenzene	50.6		"	50.0		101	80-120		

Calibration Check (EC72109-CCV1)

Prepared: 03/21/07 Analyzed: 03/22/07

Benzene	56.7		ug/l	50.0		113	80-120		
Toluene	55.7		"	50.0		111	80-120		
Ethylbenzene	56.1		"	50.0		112	80-120		
Xylene (p/m)	105		"	100		105	80-120		
Xylene (o)	58.8		"	50.0		118	80-120		
Surrogate: a,a,a-Trifluorotoluene	47.6		"	50.0		95.2	80-120		
Surrogate: 4-Bromofluorobenzene	52.5		"	50.0		105	80-120		

Matrix Spike (EC72109-MS1)

Source: 7C19010-01

Prepared: 03/21/07 Analyzed: 03/22/07

Benzene	0.0563	0.00100	mg/L	0.0500	ND	113	80-120		
Toluene	0.0546	0.00100	"	0.0500	ND	109	80-120		
Ethylbenzene	0.0519	0.00100	"	0.0500	ND	104	80-120		
Xylene (p/m)	0.102	0.00100	"	0.100	0.00101	101	80-120		
Xylene (o)	0.0562	0.00100	"	0.0500	ND	112	80-120		
Surrogate: a,a,a-Trifluorotoluene	46.2		ug/l	50.0		92.4	80-120		
Surrogate: 4-Bromofluorobenzene	49.1		"	50.0		98.2	80-120		

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WT1
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC72109 - EPA 5030C (GC)

Matrix Spike Dup (EC72109-MSD1)

Source: 7C19010-01

Prepared: 03/21/07 Analyzed: 03/22/07

Benzene	0.0529	0.00100	mg/L	0.0500	ND	106	80-120	6.39	20	
Toluene	0.0520	0.00100	"	0.0500	ND	104	80-120	4.69	20	
Ethylbenzene	0.0536	0.00100	"	0.0500	ND	107	80-120	2.84	20	
Xylene (p/m)	0.0988	0.00100	"	0.100	0.00101	97.8	80-120	3.22	20	
Xylene (o)	0.0547	0.00100	"	0.0500	ND	109	80-120	2.71	20	
Surrogate: a,a,a-Trifluorotoluene	43.8		ug/l	50.0		87.6	80-120			
Surrogate: 4-Bromofluorobenzene	47.4		"	50.0		94.8	80-120			

Batch EC72601 - EPA 5030C (GC)

Blank (EC72601-BLK1)

Prepared & Analyzed: 03/26/07

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	40.8		ug/l	50.0		81.6	80-120			
Surrogate: 4-Bromofluorobenzene	40.6		"	50.0		81.2	80-120			

LCS (EC72601-BS1)

Prepared & Analyzed: 03/26/07

Benzene	0.0442	0.00100	mg/L	0.0500		88.4	80-120			
Toluene	0.0431	0.00100	"	0.0500		86.2	80-120			
Ethylbenzene	0.0419	0.00100	"	0.0500		83.8	80-120			
Xylene (p/m)	0.0890	0.00100	"	0.100		89.0	80-120			
Xylene (o)	0.0450	0.00100	"	0.0500		90.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.5		ug/l	50.0		81.0	80-120			
Surrogate: 4-Bromofluorobenzene	43.5		"	50.0		87.0	80-120			

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC72601 - EPA 5030C (GC)

Calibration Check (EC72601-CCV1)

Prepared & Analyzed: 03/26/07

Benzene	45.8		ug/l	50.0		91.6	80-120			
Toluene	44.4		"	50.0		88.8	80-120			
Ethylbenzene	45.9		"	50.0		91.8	80-120			
Xylene (p/m)	89.2		"	100		89.2	80-120			
Xylene (o)	45.9		"	50.0		91.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.8		"	50.0		81.6	80-120			
Surrogate: 4-Bromofluorobenzene	43.9		"	50.0		87.8	80-120			

Duplicate (EC72601-DUP1)

Source: 7C23001-10

Prepared & Analyzed: 03/26/07

Benzene	ND	0.00100	mg/L		ND				20	
Toluene	0.00353	0.00100	"		0.00330			6.73	20	
Ethylbenzene	0.000521	0.00100	"		0.000349			39.5	20	R4
Xylene (p/m)	0.00502	0.00100	"		0.00430			15.5	20	
Xylene (o)	0.00123	0.00100	"		0.000981			22.5	20	R5
Surrogate: a,a,a-Trifluorotoluene	41.0		ug/l	50.0		82.0	80-120			
Surrogate: 4-Bromofluorobenzene	42.4		"	50.0		84.8	80-120			

Matrix Spike (EC72601-MS1)

Source: 7C23001-10

Prepared & Analyzed: 03/26/07

Benzene	0.0449	0.00100	mg/L	0.0500	ND	89.8	80-120			
Toluene	0.0470	0.00100	"	0.0500	0.00330	87.4	80-120			
Ethylbenzene	0.0424	0.00100	"	0.0500	0.000349	84.1	80-120			
Xylene (p/m)	0.0924	0.00100	"	0.100	0.00430	88.1	80-120			
Xylene (o)	0.0464	0.00100	"	0.0500	0.000981	90.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.0		ug/l	50.0		80.0	80-120			
Surrogate: 4-Bromofluorobenzene	44.7		"	50.0		89.4	80-120			

Environmental Lab of Texas

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1301 S. County Road 1150
Midland TX, 79706-4476

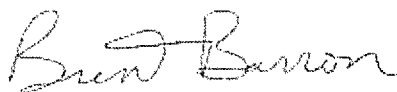
Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

R5 RPD is outside of historic values
R4 Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date: 3/28/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Name: LOVINGTON GATHERING WTI

PAGE 01 OF 01

Project Manager: Ken Dutton

Project #: 2006-142

Company Name	Basin Environmental Service Technologies, LLC
--------------	---

Project Loc: Lea County, NM

Company Address: P. O. Box 301

PO #: PAA - C. J. Reynolds

City/State/Zip: Lovington, NM 88260

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Telephone No: (505) 441-2124 Fax No: (505) 396-1429

Sampler Signature: Ken Butler e-mail: kad@basinenv.com

[illegible]

ORDER #:

Matrix	58	6	0
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[illegible]

Special Instructions:				Laboratory Comments:			
Relinquished by:	Date	Time	Received by:	Date	Time	Sample Containers Intact?	VOCs Free of Headspace? Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sample Client Rep. ? by Sealer? UPS DHL FedEx Lone Star
Relinquished by:	Date	Time	Received by:	Date	Time	Temperature Upon Receipt:	
Relinquished by:	Date	Time	Received by:	Date	Time	°C	

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Plains
Date/ Time: 3/20/07 11:30
Lab ID #: 7C200
Initials: CK

Sample Receipt Checklist

Client Initials

1	Temperature of container/ cooler?	Yes	No	1.0 °C	
2	Shipping container in good condition?	<u>Yes</u>	No		
3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
5	Chain of Custody present?	<u>Yes</u>	No		
6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
11	Containers supplied by ELOT?	<u>Yes</u>	No		
12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
13	Samples properly preserved?	<u>Yes</u>	No	See Below	
14	Sample bottles intact?	<u>Yes</u>	No		
15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
19	Subcontract of sample(s)?	<u>Yes</u>	No	<u>Not Applicable</u>	
20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

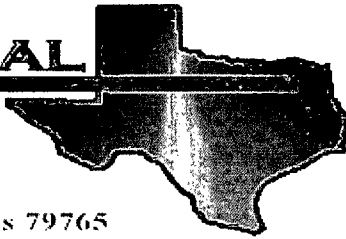
Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☐ Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

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Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Lovington Gathering WTI

Project Number: SRS: 2006-142

Location: Lea County, NM

Lab Order Number: 7F06013

Report Date: 06/11/07

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4	7F06013-01	Water	05/30/07 14:00	06-06-2007 12:21
MW-5	7F06013-02	Water	05/30/07 14:50	06-06-2007 12:21
MW-6	7F06013-03	Water	05/30/07 15:45	06-06-2007 12:21
MW-8	7F06013-04	Water	05/31/07 09:20	06-06-2007 12:21
MW-1	7F06013-05	Water	05/31/07 10:15	06-06-2007 12:21
MW-2	7F06013-06	Water	05/31/07 10:55	06-06-2007 12:21
MW-7	7F06013-07	Water	05/31/07 11:50	06-06-2007 12:21
MW-3	7F06013-08	Water	05/31/07 12:30	06-06-2007 12:21

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (7F06013-01) Water									
Benzene	ND	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	0.00114	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.4 %	80-120		"	"	"	"	
MW-5 (7F06013-02) Water									
Benzene	ND	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	1 [0.000722]	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		109 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.6 %	80-120		"	"	"	"	
MW-6 (7F06013-03) Water									
Benzene	ND	0.00100	mg/L	1	EF70802	06/08/07	06/11/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		101 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	80-120		"	"	"	"	
MW-8 (7F06013-04) Water									
Benzene	ND	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		110 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	80-120		"	"	"	"	

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1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WT1
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (7F06013-05) Water									
Benzene	ND	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		109 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	80-120		"	"	"	"	
MW-2 (7F06013-06) Water									
Benzene	0.00546	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		116 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	80-120		"	"	"	"	
MW-7 (7F06013-07) Water									
Benzene	0.0395	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00534	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		112 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	80-120		"	"	"	"	
MW-3 (7F06013-08) Water									
Benzene	1.66	0.00500	mg/L	5	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	0.0102	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.0348	0.00500	"	"	"	"	"	"	
Xylene (p/m)	0.0296	0.00500	"	"	"	"	"	"	
Xylene (o)	0.0122	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		105 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.4 %	80-120		"	"	"	"	

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF70802 - EPA 5030C (GC)

Blank (EF70802-BLK1)

Prepared & Analyzed: 06/08/07

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	54.1		ug/l	50.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	45.4		"	50.0		90.8	80-120			

LCS (EF70802-BS1)

Prepared & Analyzed: 06/08/07

Benzene	0.0548	0.00100	mg/L	0.0500		110	80-120			
Toluene	0.0556	0.00100	"	0.0500		111	80-120			
Ethylbenzene	0.0543	0.00100	"	0.0500		109	80-120			
Xylene (p/m)	0.101	0.00100	"	0.100		101	80-120			
Xylene (o)	0.0569	0.00100	"	0.0500		114	80-120			
Surrogate: a,a,a-Trifluorotoluene	54.6		ug/l	50.0		109	80-120			
Surrogate: 4-Bromofluorobenzene	51.7		"	50.0		103	80-120			

Calibration Check (EF70802-CCV1)

Prepared: 06/08/07 Analyzed: 06/09/07

Benzene	0.0576		mg/L	0.0500		115	80-120			
Toluene	0.0567		"	0.0500		113	80-120			
Ethylbenzene	0.0537		"	0.0500		107	80-120			
Xylene (p/m)	0.0999		"	0.100		99.9	80-120			
Xylene (o)	0.0573		"	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	57.9		ug/l	50.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	53.0		"	50.0		106	80-120			

Matrix Spike (EF70802-MS1)

Source: 7F06019-03

Prepared: 06/08/07 Analyzed: 06/09/07

Benzene	0.0598	0.00100	mg/L	0.0500	ND	120	80-120			
Toluene	0.0593	0.00100	"	0.0500	ND	119	80-120			
Ethylbenzene	0.0584	0.00100	"	0.0500	ND	117	80-120			
Xylene (p/m)	0.107	0.00100	"	0.100	ND	107	80-120			
Xylene (o)	0.0614	0.00100	"	0.0500	ND	123	80-120			MI
Surrogate: a,a,a-Trifluorotoluene	58.4		ug/l	50.0		117	80-120			
Surrogate: 4-Bromofluorobenzene	56.2		"	50.0		112	80-120			

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WT1
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EF70802 - EPA 5030C (GC)

Matrix Spike Dup (EF70802-MSD1)

Source: 7F06019-03

Prepared: 06/08/07 Analyzed: 06/09/07

Benzene	0.0565	0.00100	mg/L	0.0500	ND	113	80-120	6.01	20	
Toluene	0.0566	0.00100	"	0.0500	ND	113	80-120	5.17	20	
Ethylbenzene	0.0556	0.00100	"	0.0500	ND	111	80-120	5.26	20	
Xylene (p/m)	0.102	0.00100	"	0.100	ND	102	80-120	4.78	20	
Xylene (o)	0.0584	0.00100	"	0.0500	ND	117	80-120	5.00	20	
Surrogate: a,a,a-Trifluorotoluene	58.3		ug/l	50.0		117	80-120			
Surrogate: 4-Bromofluorobenzene	54.2		"	50.0		108	80-120			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Lovington Gathering WTI
Project Number: SRS: 2006-142
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

MI The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date: 6/11/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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Environmental Lab of Texas

A Xenco Laboratories Company

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 6 of 6

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains
 Date/ Time: 6-6-07 12:21
 Lab ID #: 7F06013
 Initials: AL

Sample Receipt Checklist

Client Initials

1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>4.5</u> °C	
2	Shipping container in good condition?	<u>Yes</u>	No		
3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	<u>Not Present</u>	
4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	<u>Not Present</u>	
5	Chain of Custody present?	<u>Yes</u>	No		
6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
11	Containers supplied by ELOT?	<u>Yes</u>	No		
12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
13	Samples properly preserved?	<u>Yes</u>	No	See Below	
14	Sample bottles intact?	<u>Yes</u>	No		
15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
19	Subcontract of sample(s)?	<u>Yes</u>	No	<u>Not Applicable</u>	
20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

Analytical Report 288112

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lovington Gathering WTI

2006-142

23-AUG-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

NELAC certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



23-AUG-07

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **288112**
Lovington Gathering WTI
Project Address: Lea County, NM

Camille Reynolds:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 288112. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 288112 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

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Sample Cross Reference 288112



PLAINS ALL AMERICAN EH&S, Midland, TX

Lovington Gathering WTI

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-9 5'	S	Aug-13-07 10:56	0 - 5 ft	288112-001
MW-9 15'	S	Aug-13-07 11:02	10 - 15 ft	288112-002
MW-9 25'	S	Aug-13-07 11:11	20 - 25 ft	288112-003
MW-9 45'	S	Aug-13-07 11:22	40 - 45 ft	288112-004
MW-9 65'	S	Aug-13-07 11:35	60 - 65 ft	288112-005
MW-9 70'	S	Aug-13-07 11:43	65 - 70 ft	288112-006
MW-9 75'	S	Aug-13-07 12:05	70 - 75 ft	288112-007



Certificate of Analysis Summary 288112

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Id: 2006-142

Contact: Camille Reynolds

Project Location: Lea County, NM

Date Received in Lab: Fri Aug-17-07 12:35 pm

Report Date: 23-AUG-07

Project Manager: Brent Barron, II

Analysis Requested		Lab Id:	288112-001	288112-002	288112-003	288112-004	288112-005	288112-006
Field Id:		MW-9 5'	MW-9 15'	MW-9 25'	MW-9 45'	MW-9 65'	MW-9 70'	MW-9 70'
Depth:		0-5 ft	10-15 ft	20-25 ft	40-45 ft	60-65 ft	65-70 ft	65-70 ft
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampled:		Aug-13-07 10:56	Aug-13-07 11:02	Aug-13-07 11:11	Aug-13-07 11:22	Aug-13-07 11:35	Aug-13-07 11:43	Aug-13-07 11:43
BTEX by EPA 8021B		Extracted:	Aug-21-07 12:12	Aug-21-07 12:12	Aug-21-07 12:12	Aug-21-07 12:12	Aug-21-07 12:12	Aug-21-07 12:12
		Analyzed:	Aug-21-07 19:27	Aug-21-07 19:48	Aug-21-07 20:09	Aug-21-07 20:30	Aug-21-07 20:50	Aug-21-07 21:11
		Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene			ND 0.0020	ND 0.0022	ND 0.0020	ND 0.0020	ND 0.0021	ND 0.0021
Toluene			ND 0.0020	ND 0.0022	ND 0.0020	ND 0.0020	ND 0.0021	ND 0.0021
Ethylbenzene			ND 0.0020	ND 0.0022	ND 0.0020	ND 0.0020	ND 0.0021	ND 0.0021
m,p-Xylene			ND 0.0041	ND 0.0043	ND 0.0041	ND 0.0041	ND 0.0042	ND 0.0041
o-Xylene			ND 0.0020	ND 0.0022	ND 0.0020	ND 0.0020	ND 0.0021	ND 0.0021
Total Xylenes			ND	ND	ND	ND	ND	ND
Total BTEX			ND	ND	ND	ND	ND	ND
Percent Moisture		Extracted:	Aug-20-07 10:25	Aug-20-07 10:30	Aug-20-07 10:35	Aug-20-07 10:40	Aug-20-07 10:45	Aug-20-07 10:50
		Analyzed:						
		Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
TPH by SW8015 Mod			1.54 1.00	7.45 1.00	1.88 1.00	2.31 1.00	4.18 1.00	3.20 1.00
		Extracted:	Aug-20-07 09:41	Aug-20-07 09:41	Aug-20-07 09:41	Aug-20-07 09:41	Aug-20-07 09:41	Aug-20-07 09:41
		Analyzed:	Aug-20-07 18:19	Aug-20-07 18:45	Aug-20-07 19:11	Aug-20-07 19:36	Aug-20-07 20:02	Aug-20-07 20:27
		Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons			ND 10.2	ND 10.8	ND 10.2	ND 10.2	ND 10.4	ND 10.3
C12-C28 Diesel Range Hydrocarbons			ND 10.2	ND 10.8	ND 10.2	ND 10.2	ND 10.4	ND 10.3
C28-C35 Oil Range Hydrocarbons			ND 10.2	ND 10.8	ND 10.2	ND 10.2	ND 10.4	ND 10.3
Total TPH			ND	ND	ND	ND	ND	ND

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end user of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 288112

PLAINS ALL AMERICAN EH&S, Midland, TX



Project Id: 2006-142

Contact: Camille Reynolds

Project Location: Lea County, NM

Project Name: Lovington Gathering WTI

Date Received in Lab: Fri Aug-17-07 12:35 pm

Report Date: 23-AUG-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id: 288112-007		Field Id: MW-9 75'	Depth: 70-75 ft	Matrix: SOIL	Sampled: Aug-13-07 12:05
	Extracted:	Analyzed:				
BTEX by EPA 8021B	Aug-21-07 12:12	Aug-21-07 21:32				
	Units/RL:	mg/kg RL				
Benzene		ND 0.0021				
Toluene		ND 0.0021				
Ethylbenzene		ND 0.0021				
m,p-Xylene		ND 0.0042				
o-Xylene		ND 0.0021				
Total Xylenes		ND				
Total BTEX		ND				
Percent Moisture	Extracted:	Analyzed:				
	Units/RL:	Aug-20-07 10:55				
		% RL				
		3.99 1.00				
TPH by SW8015 Mod	Extracted:	Aug-20-07 09:41				
	Analyzed:	Aug-20-07 20:53				
	Units/RL:	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		ND 10.4				
C12-C28 Diesel Range Hydrocarbons		ND 10.4				
C28-C35 Oil Range Hydrocarbons		ND 10.4				
Total TPH		ND				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.

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(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries



Project Name: Lovington Gathering WTI

Work Order #: 288112

Project ID: 2006-142

Lab Batch #: 702922

Sample: 288102-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0794	0.1000	79	80-120	*

Lab Batch #: 702922

Sample: 288102-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0869	0.1000	87	80-120	

Lab Batch #: 702922

Sample: 288112-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0859	0.1000	86	80-120	

Lab Batch #: 702922

Sample: 288112-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0709	0.1000	71	80-120	**

Lab Batch #: 702922

Sample: 288112-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0837	0.1000	84	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries



Project Name: Lovington Gathering WTI

Work Order #: 288112

Project ID: 2006-142

Lab Batch #: 702922

Sample: 288112-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0933	0.1000	93	80-120	

Lab Batch #: 702922

Sample: 288112-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0741	0.1000	74	80-120	**

Lab Batch #: 702922

Sample: 288112-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0772	0.1000	77	80-120	**

Lab Batch #: 702922

Sample: 288112-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.1093	0.1000	109	80-120	

Lab Batch #: 702922

Sample: 498484-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0543	0.0500	109	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries



Project Name: Lovington Gathering WTI

Work Order #: 288112

Project ID: 2006-142

Lab Batch #: 702922

Sample: 498484-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0496	0.0500	99	80-120	

Lab Batch #: 702698

Sample: 288112-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1-Chlorooctadecane	37.3	50.0	75	70-135	
1-Chlorooctane	35.1	50.0	70	70-135	

Lab Batch #: 702698

Sample: 288112-001 S / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1-Chlorooctadecane	39.4	50.0	79	70-135	
1-Chlorooctane	44.6	50.0	89	70-135	

Lab Batch #: 702698

Sample: 288112-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1-Chlorooctadecane	39.4	50.0	79	70-135	
1-Chlorooctane	43.8	50.0	88	70-135	

Lab Batch #: 702698

Sample: 288112-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1-Chlorooctadecane	38.3	50.0	77	70-135	
1-Chlorooctane	37.1	50.0	74	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries



Project Name: Lovington Gathering WTI

Work Order #: 288112

Project ID: 2006-142

Lab Batch #: 702698

Sample: 288112-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1-Chlorooctadecane	40.2	50.0	80	70-135	
1-Chlorooctane	39.1	50.0	78	70-135	

Lab Batch #: 702698

Sample: 288112-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1-Chlorooctadecane	38.5	50.0	77	70-135	
1-Chlorooctane	37.6	50.0	75	70-135	

Lab Batch #: 702698

Sample: 288112-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1-Chlorooctadecane	38.7	50.0	77	70-135	
1-Chlorooctane	38.0	50.0	76	70-135	

Lab Batch #: 702698

Sample: 288112-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1-Chlorooctadecane	39.4	50.0	79	70-135	
1-Chlorooctane	38.5	50.0	77	70-135	

Lab Batch #: 702698

Sample: 288112-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
1-Chlorooctadecane	40.3	50.0	81	70-135	
1-Chlorooctane	39.3	50.0	79	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries



Project Name: Lovington Gathering WTI

Work Order #: 288112

Project ID: 2006-142

Lab Batch #: 702698

Sample: 498423-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	39.6	50.0	79	70-135	
1-Chlorooctane	46.3	50.0	93	70-135	

Lab Batch #: 702698

Sample: 498423-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	39.6	50.0	79	70-135	
1-Chlorooctane	38.9	50.0	78	70-135	
o-Terphenyl	ND	ND		70-135	*U

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: Lovington Gathering WTI

Work Order #: 288112

Project ID:

2006-142

Lab Batch #: 702922

Sample: 498484-1-BKS

Matrix: Solid

Date Analyzed: 08/21/2007

Date Prepared: 08/21/2007

Analyst: SHE

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike % R [D]	Control Limits % R	Flags
Benzene	ND	0.0500	0.0351	70	70-130	
Toluene	ND	0.0500	0.0355	71	70-130	
Ethylbenzene	ND	0.0500	0.0388	78	71-129	
m,p-Xylene	ND	0.1000	0.0767	77	70-135	
o-Xylene	ND	0.0500	0.0364	73	71-133	

Lab Batch #: 702698

Sample: 498423-1-BKS

Matrix: Solid

Date Analyzed: 08/21/2007

Date Prepared: 08/20/2007

Analyst: SHE

Reporting Units: mg/kg

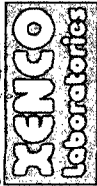
Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike % R [D]	Control Limits % R	Flags
C6-C12 Gasoline Range Hydrocarbons	ND	500	581	116	70-135	
C12-C28 Diesel Range Hydrocarbons	ND	500	484	97	70-135	

Blank Spike Recovery [D] = $100 \times [C]/[B]$

All results are based on MDL and validated for QC purposes.



Form 3 - MS / MSD Recoveries



Project Name: Lovington Gathering WTI

Work Order # 288112

Lab Batch ID: 702922

Date Analyzed: 08/23/2007

Reporting Units: mg/kg

Project ID: 2006-142

QC- Sample ID: 288102-001 S Batch #: 1 Matrix: Soil

Date Prepared: 08/21/2007 Analyst: SHE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Benzene	ND	0.1027	0.0739	72	0.1027	0.0724	70	3	70-130	35
	Toluene	ND	0.1027	0.0740	72	0.1027	0.0724	70	3	70-130	35
	Ethylbenzene	ND	0.1027	0.0725	71	0.1027	0.0725	71	0	71-129	35
	m,p-Xylene	ND	0.2054	0.1552	76	0.2054	0.1669	81	6	70-135	35
	o-Xylene	ND	0.1027	0.0745	73	0.1027	0.0734	71	3	71-133	35

Lab Batch ID: 702698

Date Analyzed: 08/21/2007

Reporting Units: mg/kg

QC- Sample ID: 288112-001 S Batch #: 1 Matrix: Soil

Date Prepared: 08/20/2007 Analyst: SHE

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
	TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	C6-C12 Gasoline Range Hydrocarbons	ND	540	572	106	540	571	106	0	70-135	35	
	C12-C28 Diesel Range Hydrocarbons	ND	540	506	94	540	498	92	2	70-135	35	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times (D-G)/(D+G)$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQ = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$



Sample Duplicate Recovery



Project Name: Lovington Gathering WTI

Work Order #: 288112

Lab Batch #: 702664

Project ID: 2006-142

Date Analyzed: 08/20/2007

Date Prepared: 08/20/2007

Analyst: JLG

QC- Sample ID: 288112-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	1.54	1.95	23	20	F

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79785

Phone: 432-563-1800
Fax: 432-563-1713

Project Name: LOVINGTON GATHERING WTI

Project #: 2008-142

Project Loc: Lea County, NM

P.O. #: PAA - C. J. Reynolds

Report Format: ☒ Standard ☐ TRRP

[illegible]

Special Instructions:				Laboratory Comments:			
email results to ktdutton@basinenv.com & cjreynolds@pasip.com							
Relinquished by Date	Time	Received by Date	Time	Relinquished by Date	Time	Received by Date	Time
ITTA Low Dots	17:40:00	Amber Blackwood	08:45	Amber Blackwood	Aug 17 07	08:45	
Relinquished by Date	Time	Received by Date	Time	Relinquished by Date	Time	Received by Date	Time
ITTA Low Dots	17:40:00	Amber Blackwood	08:45	Amber Blackwood	Aug 17 07	08:45	

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Basin Env. / Plains
Date/ Time: 8-17-07 12:35
Lab ID #: 288112
Initials: CL

Sample Receipt Checklist

			Client Initials	
#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>2.0</u> °C
#2	Shipping container in good condition?	<u>Yes</u>	No	
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present
#5	Chain of Custody present?	<u>Yes</u>	No	
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No	
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No	
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No	
#11	Containers supplied by ELOT?	<u>Yes</u>	No	
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below
#13	Samples properly preserved?	<u>Yes</u>	No	See Below
#14	Sample bottles intact?	<u>Yes</u>	No	
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No	
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No	
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below
#19	Subcontract of sample(s)?	<u>Yes</u>	No	Not Applicable
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

Analytical Report 290458

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lovington Gathering WTI

2006-142

03-OCT-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers:

Houston, TX T104704215

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

**Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta**



03-OCT-07

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **290458**
Lovington Gathering WTI
Project Address: Lea County, NM

Camille Reynolds:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 290458. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 290458 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

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Sample Cross Reference 290458

PLAINS ALL AMERICAN EH&S, Midland, TX

Lovington Gathering WTI

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-9	W	Sep-25-07 10:00		290458-001
MW-4	W	Sep-25-07 10:50		290458-002
MW-5	W	Sep-25-07 11:35		290458-003
MW-6	W	Sep-25-07 12:15		290458-004
MW-8	W	Sep-25-07 13:40		290458-005
MW-1	W	Sep-25-07 14:24		290458-006
MW-2	W	Sep-25-07 15:07		290458-007
MW-7	W	Sep-25-07 15:42		290458-008
MW-3	W	Sep-25-07 16:15		290458-009



Certificate of Analysis Summary 290458
PLAINS ALL AMERICAN EH&S, Midland, TX

Project Id: 2006-142
Contact: Camille Reynolds
Project Location: Lea County, NM

Project Name: Lovington Gathering WTI
Date Received in Lab: Fri Sep-28-07 01:45 pm
Report Date: 03-OCT-07
Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	290458-001	290458-002	290458-003	290458-004	290458-005	290458-006
	Field Id:	MW-9	MW-4	MW-5	MW-6	MW-8	MW-1
	Depth:						
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	Sampled:	Sep-25-07 10:00	Sep-25-07 10:50	Sep-25-07 11:35	Sep-25-07 12:15	Sep-25-07 13:40	Sep-25-07 14:24
BTEX by EPA 8021B	Extracted:	Oct-02-07 16:30	Oct-02-07 16:30	Oct-02-07 16:30	Oct-02-07 16:30	Oct-02-07 16:30	Oct-02-07 16:30
	Analyzed:	Oct-02-07 20:05	Oct-02-07 20:22	Oct-02-07 20:38	Oct-02-07 20:55	Oct-02-07 21:28	Oct-02-07 21:45
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
	Benzene	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010
	Toluene	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010
Ethylbenzene		ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010
m,p-Xylene		ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020
o-Xylene		ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010
Total Xylenes		ND	ND	ND	ND	ND	ND
Total BTEX		ND	ND	ND	ND	ND	ND

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 290458

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Id: 2006-142
Contact: Camille Reynolds
Project Location: Lea County, NM

Project Name: Lovington Gathering WTI

Date Received in Lab: Fri Sep-28-07 01:45 pm

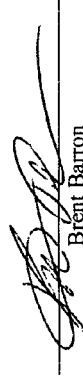
Report Date: 03-OCT-07

Project Manager: Brent Barron, II

Analysis Requested	290458-007 MW-2 WATER Sep-25-07 15:07		290458-008 MW-7 WATER Sep-25-07 15:42		290458-009 MW-3 WATER Sep-25-07 16:15	
	Lab Id: Field Id: Depth: Matrix: Sampled:	Lab Id: Field Id: Depth: Matrix: Sampled:	Lab Id: Field Id: Depth: Matrix: Sampled:	Lab Id: Field Id: Depth: Matrix: Sampled:	Lab Id: Field Id: Depth: Matrix: Sampled:	Lab Id: Field Id: Depth: Matrix: Sampled:
BTEX by EPA 8021B	Extracted:	Oct-02-07 16:30	Oct-02-07 16:30	Oct-03-07 10:16	Oct-03-07 10:16	Oct-03-07 10:16
	Analyzed:	Oct-02-07 22:01	Oct-02-07 22:18	Oct-03-07 12:43	Oct-03-07 12:43	Oct-03-07 12:43
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
	Benzene	0.0503 0.0010	0.0370 0.0010	0.4943 0.0010	0.4943 0.0010	0.4943 0.0010
	Toluene	ND 0.0010	ND 0.0010	0.0239 0.0010	0.0239 0.0010	0.0239 0.0010
Ethylbenzene		ND 0.0010	ND 0.0010	0.0209 0.0010	0.0209 0.0010	0.0209 0.0010
m,p-Xylene		0.0030 0.0020	0.0306 0.0020	0.0140 0.0020	0.0140 0.0020	0.0140 0.0020
o-Xylene		ND 0.0010	ND 0.0010	0.0071 0.0010	0.0071 0.0010	0.0071 0.0010
Total Xylenes		0.003	0.0306	0.0211	0.0211	0.0211
Total BTEX		0.0533	0.0676	0.5602	0.5602	0.5602

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 290458

Project ID: 2006-142

Lab Batch #: 705584

Sample: 290458-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0317	0.0300	106	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

Lab Batch #: 705584

Sample: 290458-001 S / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 705584

Sample: 290458-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

Lab Batch #: 705584

Sample: 290458-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0317	0.0300	106	80-120	
4-Bromofluorobenzene	0.0253	0.0300	84	80-120	

Lab Batch #: 705584

Sample: 290458-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 290458

Project ID: 2006-142

Lab Batch #: 705584

Sample: 290458-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0257	0.0300	86	80-120	

Lab Batch #: 705584

Sample: 290458-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0314	0.0300	105	80-120	
4-Bromofluorobenzene	0.0260	0.0300	87	80-120	

Lab Batch #: 705584

Sample: 290458-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0317	0.0300	106	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 705584

Sample: 290458-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

Lab Batch #: 705584

Sample: 290458-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0304	0.0300	101	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 290458

Project ID: 2006-142

Lab Batch #: 705584

Sample: 500015-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 705584

Sample: 500015-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 705584

Sample: 500015-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

Lab Batch #: 705607

Sample: 290458-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0254	0.0300	85	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 705607

Sample: 500032-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 290458

Project ID: 2006-142

Lab Batch #: 705607

Sample: 500032-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 705607

Sample: 500032-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0265	0.0300	88	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 290458

Analyst: SHE

Lab Batch ID: 705584

Sample: 500015-1-BKS

Units: mg/L

Date Prepared: 10/02/2007

Batch #: 1

Project ID: 2006-142

Date Analyzed: 10/02/2007

Matrix: Water

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Units: mg/L											
Analytes	BTEx by EPA 8021B										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Benzene	ND	0.1000	0.1061	106	0.1	0.1072	107	1	70-125	25
	Toluene	ND	0.1000	0.1047	105	0.1	0.1058	106	1	70-125	25
	Ethylbenzene	ND	0.1000	0.1047	105	0.1	0.1061	106	1	71-129	25
	m,p-Xylene	ND	0.2000	0.2099	105	0.2	0.2123	106	1	70-131	25
	o-Xylene	ND	0.1000	0.1022	102	0.1	0.1033	103	1	71-133	25

Analyst: SHE

Lab Batch ID: 705607

Sample: 500032-1-BKS

Units: mg/L

Date Prepared: 10/03/2007

Batch #: 1

Date Analyzed: 10/03/2007

Matrix: Water

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Units: mg/L										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Benzene	ND	0.1000	0.0940	94	0.1	0.0948	95	1	70-125	25
	Toluene	ND	0.1000	0.0924	92	0.1	0.0928	93	0	70-125	25
	Ethylbenzene	ND	0.1000	0.0918	92	0.1	0.0929	93	1	71-129	25
	m,p-Xylene	ND	0.2000	0.1832	92	0.2	0.1860	93	2	70-131	25
o-Xylene	ND	0.1000	0.0896	90	0.1	0.0911	91	2	71-133	25	

Relative Percent Difference $RPD = 200 * [(D-F)/(D+F)]$

Blank Spike Recovery $[D] = 100 * (C)/[B]$

Blank Spike Duplicate Recovery $[G] = 100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Lovington Gathering WTI

Work Order #: 290458

Lab Batch ID: 705584

Date Analyzed: 10/03/2007

Reporting Units: mg/L

Project ID: 2006-142

QC-Sample ID: 290458-001 S

Date Prepared: 10/02/2007

Batch #: 1 Matrix: Water

Analyst: SHE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY												
Reporting Units: mg/L												
BTEX by EPA 8021B		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
	Benzene	ND	0.1000	0.0935	94	0.1000	0.0969	97	3	70-125	25	
	Toluene	ND	0.1000	0.0915	92	0.1000	0.0941	94	2	70-125	25	
	Ethylbenzene	ND	0.1000	0.2076	208	0.1000	0.2098	210	1	71-129	25	X
	m,p-Xylene	ND	0.2000	0.1795	90	0.2000	0.1814	91	1	70-131	25	
	o-Xylene	ND	0.1000	0.0897	90	0.1000	0.0905	91	1	71-133	25	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference RPD = $200 \times (D-G)/(D+G)$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = $100 \times (F-A)/E$

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
12600 West 120 East
Odessa, Texas 79765
Phone: 432-863-1800
Fax: 432-863-1713

Project Manager: Ken Dutton PAGE 01 OF 01
Company Name: Basin Environmental Service Technologies, LLC
Company Address: P.O. Box 301
City/State/Zip: Lovington, NM 82600
Telephone No.: (505) 441-2124
Fax No.: (505) 396-1429
Sampler Signature: *Ken Dutton* e-mail: kdutton@basinenv.com
Project Name: LOVINGTON GATHERING WTI
Project #: 2006-142
Project Loc: Lea County, NM
PO #: PAA - C. J. Reynolds
Report Format: ☒ Standard ☐ TRGP ☐ NPDES

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers	Matrix
01	MW-9			25-Sep-07	1000		2	X	GW
02	MW-4			25-Sep-07	1050		2	X	GW
03	MW-5			25-Sep-07	1135		2	X	GW
04	MW-6			25-Sep-07	1216		2	X	GW
05	MW-8			25-Sep-07	1340		2	X	GW
06	MW-1			25-Sep-07	1424		2	X	GW
07	MW-2			25-Sep-07	1507		2	X	GW
08	MW-7			25-Sep-07	1542		2	X	GW
09	MW-3			25-Sep-07	1616		2	X	GW

Special Instructions:

Requisitioned by: *Ken Dutton* Date: 25-Sep-07 Time: 09:30
Received by: *John Blackwood* Date: 25-Sep-07 Time: 9:50
Requisitioned by: *Ken Dutton* Date: 25-Sep-07 Time: 1:45
Received by: *Andrea Sam* Date: 25-Sep-07 Time: 1:45

Temperature Upon Receipt: 75 °C

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Basin 1 Plains
Date/ Time: 9-28-07 1:45
Lab ID #: 2910458
Initials: AL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	<input checked="" type="checkbox"/> Yes	No	2.5 °C
#2	Shipping container in good condition?	<input checked="" type="checkbox"/> Yes	No	
#3	Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/> Yes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/> Yes	No	Not Present
#5	Chain of Custody present?	<input checked="" type="checkbox"/> Yes	No	
#6	Sample Instructions complete of Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#7	Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes	No	
#8	Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/> Yes	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	<input checked="" type="checkbox"/> Yes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#11	Containers supplied by ELOT?	<input checked="" type="checkbox"/> Yes	No	
#12	Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes	No	See Below
#13	Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No	See Below
#14	Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No	
#15	Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#16	Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#17	Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes	No	See Below
#18	All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No	See Below
#19	Subcontract of sample(s)?	<input checked="" type="checkbox"/> Yes	No	Not Applicable
#20	VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

Analytical Report 293980

for

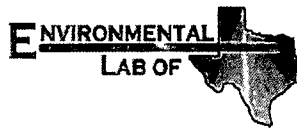
PLAINS ALL AMERICAN EH&S

Project Manager: JIMMY BRYANT

Lovington Gathering WTI

2006-142

10-DEC-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers:

Houston, TX T104704215

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Midland - Corpus Christi - Atlanta



10-DEC-07

Project Manager: **JIMMY BRYANT**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **293980**
Lovington Gathering WTI
Project Address: Lea County, NM

JIMMY BRYANT:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 293980. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 293980 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 293980



PLAINS ALL AMERICAN EH&S, Midland, TX

Lovington Gathering WTI

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-9	W	Nov-30-07 09:15		293980-001
MW-4	W	Nov-30-07 10:35		293980-002
MW-5	W	Nov-30-07 11:45		293980-003
MW-6	W	Nov-30-07 12:40		293980-004
MW-8	W	Nov-30-07 15:25		293980-005
MW-1	W	Nov-30-07 11:10		293980-006
MW-2	W	Nov-30-07 13:50		293980-007
MW-7	W	Nov-30-07 14:30		293980-008
MW-3	W	Nov-30-07 15:10		293980-009



Certificate of Analysis Summary 293980
PLAINS ALL AMERICAN EH&S, Midland, TX


Project Id: 2006-142
Contact: JIMMY BRYANT
Project Location: Lea County, NM

Project Name: Lovington Gathering WTI
Date Received in Lab: Tue Dec-04-07 12:45 pm
Report Date: 10-DEC-07
Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	293980-001	293980-002	293980-003	293980-004	293980-005	293980-006
	Field Id: Depth: Matrix: Sampled:	MW-9 Nov-30-07 09:15 WATER	MW-4 Nov-30-07 10:35 WATER	MW-5 Nov-30-07 11:45 WATER	MW-6 Nov-30-07 12:40 WATER	MW-8 Nov-30-07 15:25 WATER	MW-1 Nov-30-07 11:10 WATER
BTEX by EPA 8021B	Extracted:	Dec-05-07 11:19	Dec-05-07 11:19	Dec-05-07 11:19	Dec-05-07 11:19	Dec-05-07 11:19	Dec-05-07 11:19
	Analyzed:	Dec-05-07 19:57	Dec-05-07 20:14	Dec-05-07 20:30	Dec-05-07 20:47	Dec-05-07 21:03	Dec-05-07 21:20
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
	Benzene	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010
	Toluene	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020
Ethylbenzene		ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010
m,p-Xylenes		ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020
o-Xylene		ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010
Xylenes, Total		ND	ND	ND	ND	ND	ND
Total BTEX		ND	ND	ND	ND	ND	ND

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America


Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 293980
PLAINS ALL AMERICAN EH&S, Midland, TX


Project Id: 2006-142
Contact: JIMMY BRYANT
Project Location: Lea County, NM

Project Name: Lovington Gathering WTI
Date Received in Lab: Tue Dec-04-07 12:45 pm
Report Date: 10-DEC-07
Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	293980-007	293980-008	293980-009	
	Field Id:	MW-2	MW-7	MW-3	
	Depth:				
	Matrix:	WATER	WATER	WATER	
	Sampled:	Nov-30-07 13:50	Nov-30-07 14:30	Nov-30-07 15:10	
BTEX by EPA 8021B	Extracted:	Dec-06-07 12:45	Dec-05-07 11:19	Dec-06-07 12:45	
	Analyzed:	Dec-06-07 16:10	Dec-05-07 21:53	Dec-06-07 17:01	
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	
	Benzene	0.9283 0.0050	0.0264 0.0010	5.937 0.0200	
	Toluene	ND 0.0100	ND 0.0020	0.2786 0.0400	
	Ethylbenzene	ND 0.0050	ND 0.0010	0.2732 0.0200	
	m,p-Xylenes	0.0366 0.0100	0.0221 0.0020	0.1410 0.0400	
	o-Xylene	ND 0.0050	ND 0.0010	0.0740 0.0200	
	Xylenes, Total	0.0366	0.0221	0.215	
	Total BTEX	0.9649	0.0485	6.7038	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

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(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI



Work Order #: 293980

Project ID: 2006-142

Lab Batch #: 709873

Sample: 293980-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0315	0.0300	105	80-120	
4-Bromofluorobenzene	0.0246	0.0300	82	80-120	

Lab Batch #: 709873

Sample: 293980-001 S / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 709873

Sample: 293980-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 709873

Sample: 293980-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0254	0.0300	85	80-120	

Lab Batch #: 709873

Sample: 293980-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI



Work Order #: 293980

Project ID: 2006-142

Lab Batch #: 709873

Sample: 293980-004 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0256	0.0300	85	80-120	

Lab Batch #: 709873

Sample: 293980-005 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0257	0.0300	86	80-120	

Lab Batch #: 709873

Sample: 293980-006 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0317	0.0300	106	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 709873

Sample: 293980-008 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0254	0.0300	85	80-120	

Lab Batch #: 709873

Sample: 502210-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI



Work Order #: 293980

Project ID: 2006-142

Lab Batch #: 709873

Sample: 502210-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0315	0.0300	105	80-120	
4-Bromofluorobenzene	0.0260	0.0300	87	80-120	

Lab Batch #: 709873

Sample: 502210-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

Lab Batch #: 710056

Sample: 293896-054 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

Lab Batch #: 710056

Sample: 293896-054 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 710056

Sample: 293980-007 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Lovington Gathering WTI



Work Order #: 293980

Project ID: 2006-142

Lab Batch #: 710056

Sample: 293980-009 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0338	0.0300	113	80-120	
4-Bromofluorobenzene	0.0270	0.0300	90	80-120	

Lab Batch #: 710056

Sample: 502290-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 710056

Sample: 502290-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

Lab Batch #: 710056

Sample: 502290-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Lovington Gathering WTI

Work Order #: 293980

Analyst: SHE

Lab Batch ID: 709873

Date Prepared: 12/05/2007

Sample: 502210-1-BKS

Batch #: 1

Project ID: 2006-142

Date Analyzed: 12/05/2007

Matrix: Water

Units: mg/L

Units: mg/L		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
BTEX by EPA 8021B		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Benzene		ND	0.1000	0.1016	102	0.1	0.0964	96	5	70-125	25	
Toluene		ND	0.1000	0.1021	102	0.1	0.0973	97	5	70-125	25	
Ethylbenzene		ND	0.1000	0.1050	105	0.1	0.1004	100	4	71-129	25	
m,p-Xylenes		ND	0.2000	0.2068	103	0.2	0.1977	99	4	70-131	25	
o-Xylene		ND	0.1000	0.1038	104	0.1	0.1000	100	4	71-133	25	

Analyst: SHE

Lab Batch ID: 710056

Date Prepared: 12/06/2007

Sample: 502290-1-BKS

Batch #: 1

Date Analyzed: 12/06/2007

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/L												
BTEX by EPA 8021B		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Benzene		ND	0.1000	0.0870	87	0.1	0.0889	89	2	70-125	25	
Toluene		ND	0.1000	0.0872	87	0.1	0.0892	89	2	70-125	25	
Ethylbenzene		ND	0.1000	0.0907	91	0.1	0.0924	92	2	71-129	25	
m,p-Xylenes		ND	0.2000	0.1781	89	0.2	0.1813	91	2	70-131	25	
o-Xylene		ND	0.1000	0.0895	90	0.1	0.0918	92	3	71-133	25	

Relative Percent Difference RPD = $200 * (D-F) / (D+F)$

Blank Spike Recovery [D] = $100 * (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Lovington Gathering WTI

Work Order #: 293980

Lab Batch ID: 709873

Date Analyzed: 12/05/2007

Reporting Units: mg/L

Project ID: 2006-142

QC- Sample ID: 293980-001 S

Batch #: 1 Matrix: Water

Date Prepared: 12/05/2007 Analyst: SHE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY													
Reporting Units: mg/L	BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
		Benzene	ND	0.1000	0.0934	93	0.1000	0.0944	94	1	70-125	25	
		Toluene	ND	0.1000	0.0922	92	0.1000	0.0925	93	1	70-125	25	
		Ethylbenzene	ND	0.1000	0.0919	92	0.1000	0.0922	92	0	71-129	25	
		m,p-Xylenes	ND	0.2000	0.1791	90	0.2000	0.1802	90	0	70-131	25	
		o-Xylene	ND	0.1000	0.0917	92	0.1000	0.0917	92	0	71-133	25	

Lab Batch ID: 710056

Date Analyzed: 12/06/2007

Reporting Units: mg/L

QC- Sample ID: 293896-054 S

Batch #: 1 Matrix: Water

Date Prepared: 12/06/2007 Analyst: SHE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Benzene	0.0054	0.1000	0.0859	81	0.1000	0.0860	81	0	70-125	25
	Toluene	ND	0.1000	0.0858	86	0.1000	0.0863	86	0	70-125	25
	Ethylbenzene	ND	0.1000	0.0892	89	0.1000	0.0900	90	1	71-129	25
	m,p-Xylenes	ND	0.2000	0.1740	87	0.2000	0.1758	88	1	70-131	25
	o-Xylene	ND	0.1000	0.0901	90	0.1000	0.0910	91	1	71-133	25

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

ND = Not Detected, I = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-453-1800
Fax: 432-563-1713

Project Name: LOVINGTON GATHERING WTI

Project #: 2005-142

Project Location: Lea County, NM

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293980

Special Instructions:				Laboratory Comments:			
Requisitioned by <i>W. D. Bell</i>	Date 13-4-09	Time 8:00	Received by <i>David Blackwood</i>	Date 13-4-09	Time 8:00	Sample Contaminated? <input checked="" type="checkbox"/> N VOCs Free of Headspace? <input checked="" type="checkbox"/> N Labels on Containers? <input checked="" type="checkbox"/> N Custody seals on containers? <input checked="" type="checkbox"/> N Custody seals on containers? <input checked="" type="checkbox"/> N Sampled by (if different) <input checked="" type="checkbox"/> N Submitted by <input checked="" type="checkbox"/> N by Sampler/Client Rep. ? <input checked="" type="checkbox"/> N Date <input checked="" type="checkbox"/> N Time <input checked="" type="checkbox"/> N Temperature Upon Receipt 35.9 °C	
Requisitioned by <i>W. D. Bell</i>	Date 13-4-09	Time 8:00	Received by <i>David Blackwood</i>	Date 13-4-09	Time 8:00	Sample Contaminated? <input checked="" type="checkbox"/> N VOCs Free of Headspace? <input checked="" type="checkbox"/> N Labels on Containers? <input checked="" type="checkbox"/> N Custody seals on containers? <input checked="" type="checkbox"/> N Custody seals on containers? <input checked="" type="checkbox"/> N Sampled by (if different) <input checked="" type="checkbox"/> N Submitted by <input checked="" type="checkbox"/> N by Sampler/Client Rep. ? <input checked="" type="checkbox"/> N Date <input checked="" type="checkbox"/> N Time <input checked="" type="checkbox"/> N Temperature Upon Receipt 35.9 °C	

Laboratory Comments:

Received by: Dr. J. L. ...

Lydia Lockwood

Received by:

Received by ELOI

[Signature]

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$\frac{d}{dt} \left(\frac{1}{\rho} \right) = - \frac{1}{\rho^2} \frac{d\rho}{dt}$

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Basin Enviro. (Plain)
Date/ Time: 12/04/01 12:45
Lab ID #: 249980
Initials: gms

Sample Receipt Checklist

				Client Initials	
#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>3.5</u>	*C
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by ELDT?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	<u>Yes</u>	No	Not Applicable	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Report

Name of Company Plains Pipeline	Contact Camille Reynolds	
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965	
Facility Name Lovington Gathering WTI	Facility Type 6" Steel Pipeline	
Surface Owner Robert Rice	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter H	Section 6	Township 17S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude 32° 51' 56.0" Longitude 103° 17' 07.2"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 12 barrels	Volume Recovered 8 barrels
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence 4-21-2006 @ 13:00	Date and Hour of Discovery 4-21-2006 @ 13:15
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Pat Caperton	
By Whom? Camille Reynolds	Date and Hour 4-21-2006 @ 15:35	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken Internal corrosion while purging the line resulted in release of sweet crude oil. The line has been purged. The line is an idle 6-inch steel gathering line. The pressure on the line was approximately 50 psi and the gravity of the sweet crude oil was 34. The sweet crude has an H₂S content of <10 ppm. The line was approximately 1.5 feet bgs at the release point.

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was approximately 1,500 ft².

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: <i>Camille Reynolds</i>	OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
Title: Remediation Coordinator	Approval Date:	Expiration Date:
E-mail Address: cjreynolds@paalp.com	Conditions of Approval:	
Date: 4/26/2006 Phone: 505-441- nacs	Attached <input type="checkbox"/>	

facility - PPAC0611638437
inri deal - PPAC0611638542

application - PPAC0611639267