GW - 351

Landfarm

REPORTS

YEAR(S):

2008

PLAINS MARKETING, L.P.

RECEIVED
2009 MAR 31 PM 1 12

March 27, 2009

Mr. Brad Jones
New Mexico Energy, Minerals and Natural Resources Department
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Plains Marketing, L.P. – 2008 Annual Report
Lea Station Landfarm – Discharge Permit #GW-351
Lea County, New Mexico

Dear Mr. Jones:

Enclosed for your review is a copy of the 2008 Annual Report for the following Plains Marketing, L.P. facility:

Lea Station Landfarm	GW-351	Section 28, T20S, R37E, Lea County

Basin Environmental Consulting, LLC (Basin) prepared this document and has vouched for its accuracy and completeness, and on behalf of Plains Marketing, L.P., I have personally reviewed this document and interviewed Basin personnel in order to verify the accuracy and completeness of this document. It is based upon these inquiries and reviews that Plains Marketing, L.P. submits the enclosed Annual Report for the above facility.

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

Sincerely,

Jason Henry

Jason Henry
Remediation Coordinator
Plains Marketing, L.P.

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures

Basin Environmental Consulting, LLC

2800 Plains Highway
P. O. Box 381
Lovington, New Mexico 88260
cjbryant@basin-consulting.com
Office: (575) 396-2378 Fax: (575) 396-1429

Effective Solutions

March 2009

Mr. Brad Jones
New Mexico Energy, Minerals and Natural Resources Department
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Annual Report – 2008
Plains Marketing, L. P. (231735)
Lea Station Landfarm – Discharge Permit #GW-351 (Plains Ref. # 2004-00061)
W ½ of the NW ¼ of Section 28, Township 20 South, Range 37 East
Lea County, New Mexico

Dear Mr. Jones:

Basin Environmental Consulting, LLC (Basin), at the request of Plains Marketing, L. P. (Plains), assumed maintenance responsibilities of the Lea Station Landfarm in October 2007. Basin, on behalf of Plains, is submitting the *2008 Annual Report* for the Plains Lea Station Landfarm. The Plains Lea Station Landfarm is being operated and maintained in accordance with New Mexico Oil Conservation Division (NMOCD), Natural Resources and Wildlife, Oil and Gas Surface Waste Management Facilities (Title 19 Chapter 15 Part 36). The Landfarm is operated by Plains as a "centralized" facility for Plains use only. A surveyor's plat of the Lea Station Landfarm is provided as Figure 1.

DISPOSAL VOLUME

Receipt of impacted soil began in January 2004. As of December 31, 2008, a total of approximately 93,891 cubic yards of crude oil impacted soil from within the Plains crude oil transportation system have been emplaced in Cell-A, Cell-B, Cell-C, Cell-D, Cell-E and Cell-F. Approximately 12,096 cubic yards of impacted soil was transported to the Landfarm during the 2008 reporting period.

MAINTENANCE

Within 72-hours of being delivered to the landfarm, soil stockpiles were pushed down and contoured into a treatment lift. Mechanical disking of the soil contained in the treatment cells occurred every two weeks. Disking of the soil at ninety degree angles to the current windrow configuration allows for increased aeration within the lifts and more efficient movement of the soil, providing a potentially more favorable environment for bioremediation to occur within the lifts.

TREATMENT ZONE MONITORING

On June 20, 2008, Basin collected two (2) to five (5) four-point composite treatment zone soil samples from each of the treatment cells (Cells A, B, C, D, E and F) being utilized. The soil samples were analyzed for concentrations of total petroleum hydrocarbons (TPH) using method SW8015M and chloride, using method EPA 300. The analytical results indicated TPH concentrations ranged from 188.6 mg/Kg for soil sample Cell E TZ G4 to 5,100 mg/Kg for soil sample Cell B TZ G1. Chloride concentrations ranged from less than the laboratory method detection limit (MDL) for soil samples Cell C TZ G1 and Cell E TZ G1-G4 to 106 mg/Kg for soil sample Cell D TZ G4. Please reference Table 1, 2008 Concentrations of Benzene, BTEX, TPH and Chloride in the Treatment Zone.

On November 13, 2008, Basin collected four (4) to five (5) four-point composite treatment zone soil samples from each of the treatment cells (Cells A, B, C, D, E and F) being utilized. The soil samples were analyzed for concentrations of TPH and chloride. The analytical results indicated TPH concentrations ranged from 36.1 mg/Kg for soil sample Cell C TZ G1 to 1,888 mg/Kg for soil sample Cell D TZ G5. Chloride concentrations ranged from less than the laboratory MDL for soil samples Cell A TZ G4-G5, Cell B TZ G1, G3, G4, G5, Cell C TZ G2-G5, Cell D TZ G5 and Cell E TZ G1-G4 to 193 mg/Kg for soil sample Cell F TZ G2.

The locations of soil samples collected in treatment cells A, B, C, D, E and F during the June and November 2008 sampling events are depicted on Figures 2, 3, 4, 5, 6 and 7, respectively. Laboratory analytical reports are attached.

VADOSE ZONE MONITORING

A single soil sample was collected on January 16, 2004, from the vadose zone in an undisturbed location within the Landfarm area to establish background concentrations of NMOCD constituents of concern (COCs) as listed below:

- Total petroleum hydrocarbons (TPH);
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX);
- Anions and cations; and

- RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver).

Analytical results of the background samples indicated TPH was not detected at or above the laboratory MDL. Anions, cations, and RCRA metals concentrations of background samples were typical of native undisturbed soil. Please reference Table 2, Historic Concentrations of Hydrocarbons, Chlorides, Sulfates and Alkalinity in the Vadose Zone and Table 3, Historic Concentrations of Metals in the Vadose Zone.

On June 20, 2008, Basin collected five (5) grab soil samples at a depth of three (3) to four (4) feet below ground surface (vadose zone) from treatment Cells A, B, C, and D, four (4) grab samples from treatment Cell E and two (2) grab samples from treatment Cell F. The soil samples were collected and submitted to the laboratory to determine the extent (if any) of impact to the underlying soil at the landfarm. The grab soil samples were collected and analyzed for constituent concentrations of benzene, toluene, ethylbenzene and xylene (BTEX) using method EPA 8021b, TPH using method SW8015M and chloride using EPA 300. Please reference Table 4, 2008 Concentrations of Benzene, BTEX, TPH and Chloride in the Vadose Zone.

The analytical results indicated benzene, BTEX, TPH and chloride concentrations were below the laboratory MDL for all soil samples submitted.

On November 14, 2008, Basin collected five (5) grab samples at a depth of three (3) to four (4) feet bgs (vadose zone) from treatment Cells A, B, C, D and F and four (4) grab samples from treatment Cell E. The grab samples were collected and analyzed for constituent concentrations of BTEX, TPH and chloride.

The analytical results indicated benzene, BTEX and TPH concentrations were below the laboratory MDL for all soil samples submitted.

The analytical results indicated chloride concentrations were below the laboratory MDL in all soil samples, with the exception of soil sample Cell E VZ G3 (3'-4') which exhibited a chloride concentration of 32.1 mg/Kg. This chloride concentration is above the established background chloride concentration for the landfarm area of 10.6 mg/Kg but is still well within the range of concentrations which would be considered background levels.

The locations of soil samples collected in the vadose zone from treatment cells A, B, C, D, E and F during the June and November 2008 sampling events are depicted on Figures 2, 3, 4, 5, 6 and 7, respectively.

CONCLUSIONS

The laboratory analytical results of vadose zone soil sampling indicate soil beneath the Lea Station Landfarm has not been affected above background levels established prior to the construction of the landfarm treatment cells. The laboratory analytical results indicate

hydrocarbon impact soil placed in the treatment cells is naturally attenuating within the lifts. The laboratory analytical results collected from the treatment cells on November 13, 2008, indicated soil samples Cell C (G1 thru G5), Cell B (G5) and Cell E (G4) contain concentrations less than the NMOCD remedial goals (100 mg/Kg TPH).

RECOMMENDATIONS

Based on analytical results of the soil samples collected from the treatment cells Cell C (G1 thru G5), Cell B (G5) and Cell E (G4), Plains requests NMOCD approval to transport the remediated soil from the respective landfarm cells to a soil staging area located near the entrance of Cell D. The remediated soil will be used as backfill material at Plains remediation sites in the future. Bi-monthly tilling of the treatment zones will continue during the 2009 reporting period. Soil samples of the vadose and treatment zones will be collected and submitted to the laboratory for determination of constituent concentrations on a bi-annual schedule. Vadose zone soil samples will be analyzed using method 8021b (BTEX), method 8015M (TPH) and method EPA 300 (chloride). Treatment zone soil samples will be analyzed using method 8015M (TPH) and method EPA 300 (chloride). An Annual Report will be submitted in 2010 documenting the results of the 2009 treatment cell and vadose zone sampling events.

LIMITATIONS

Basin Environmental Consulting, LLC has prepared this Lea Station Landfarm Annual Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

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

Should you have any questions or concerns, please contact Jason Henry (575) 441-1099 or me at (575) 396-2378.

Sincerely,

Camille Bryant
Basin Environmental Consulting, LLC

Cc: Ed Hansen, NMOCD-Santa Fe, New Mexico (edwardj.hansen@state.nm.us)
Jeff Dann, Plains Marketing–Houston, Texas (jpdann@paalp.com)
Jason Henry, Plains Marketing–Lovington, New Mexico (jhenry@paalp.com)

Enclosures:

Figures

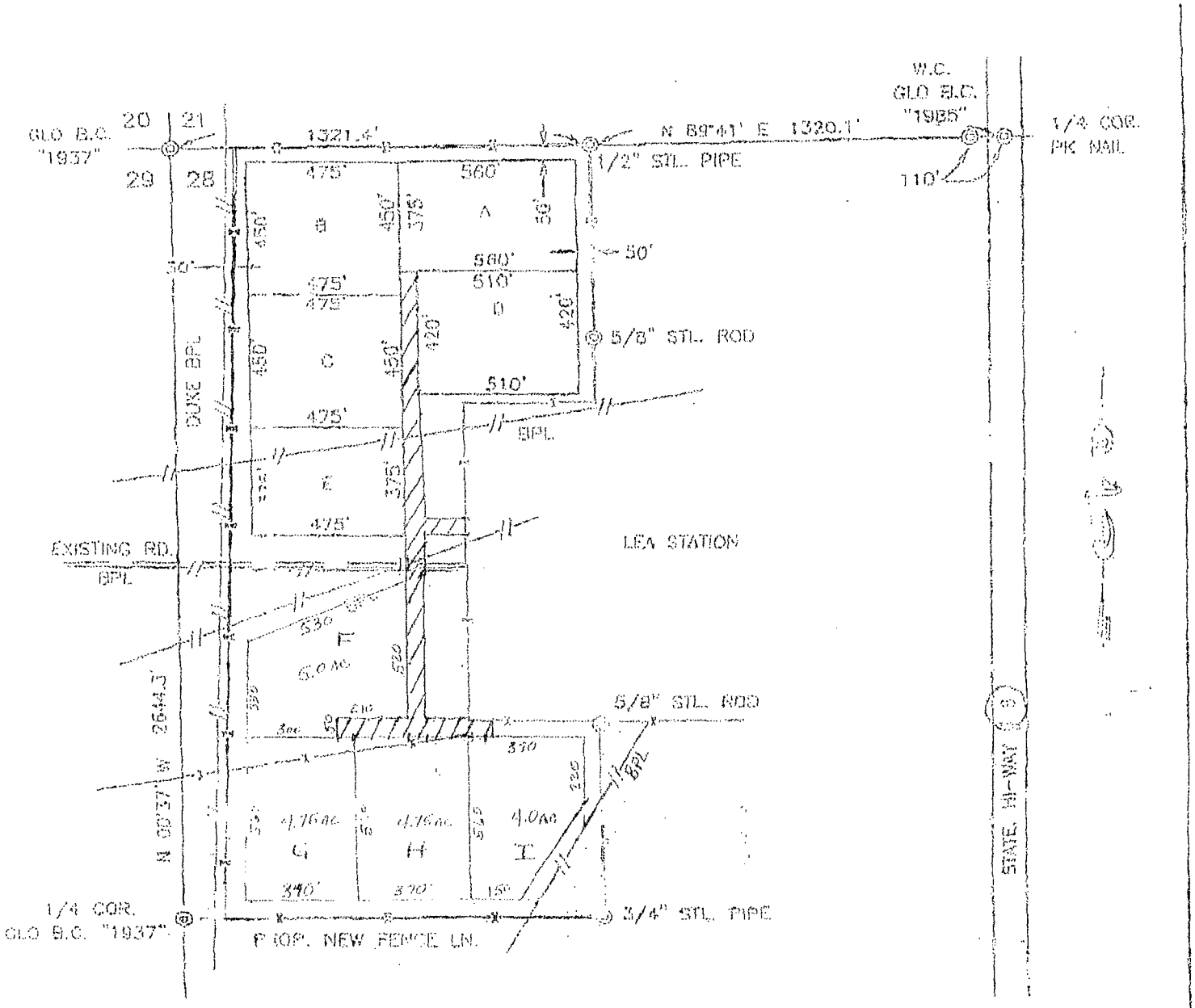
Figure 1: Lea Station Landfarm Survey map
Figure 2: Cell "A" Soil Sample Location Map – June and November 2008
Figure 3: Cell "B" Soil Sample Location Map – June and November 2008
Figure 4: Cell "C" Soil Sample Location Map – June and November 2008
Figure 5: Cell "D" Soil Sample Location Map – June and November 2008
Figure 6: Cell "E" Soil Sample Location Map – June and November 2008
Figure 7: Cell "F" Soil Sample Location Map – June and November 2008

Tables

Table 1: 2008 Concentrations of Benzene, BTEX, TPH and Chlorides in the Treatment Zone.
Table 2: Historic Concentrations of Hydrocarbons, Chlorides, Sulfates and Alkalinity in the Vadose Zone.
Table 3: Historic Concentrations of Metals in the Vadose Zone
Table 4: 2008 Concentrations of Benzene, BTEX, TPH and Chloride in the Vadose Zone

Laboratory Analytical Reports

Photographs



LEGEND

(⊕) DENOTES FOUND MONUMENT AS NOTED

DENOTES EXISTING FENCE

DENOTES PROPOSED FENCE

NOTE

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

500' 0 500' 1000'

Scale: 1"=500'

I HEREBY CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

12/11/03

GARY G. EIDSON N.M.P.S. No. 12641

JOHN WEST SURVEYING COMPANY

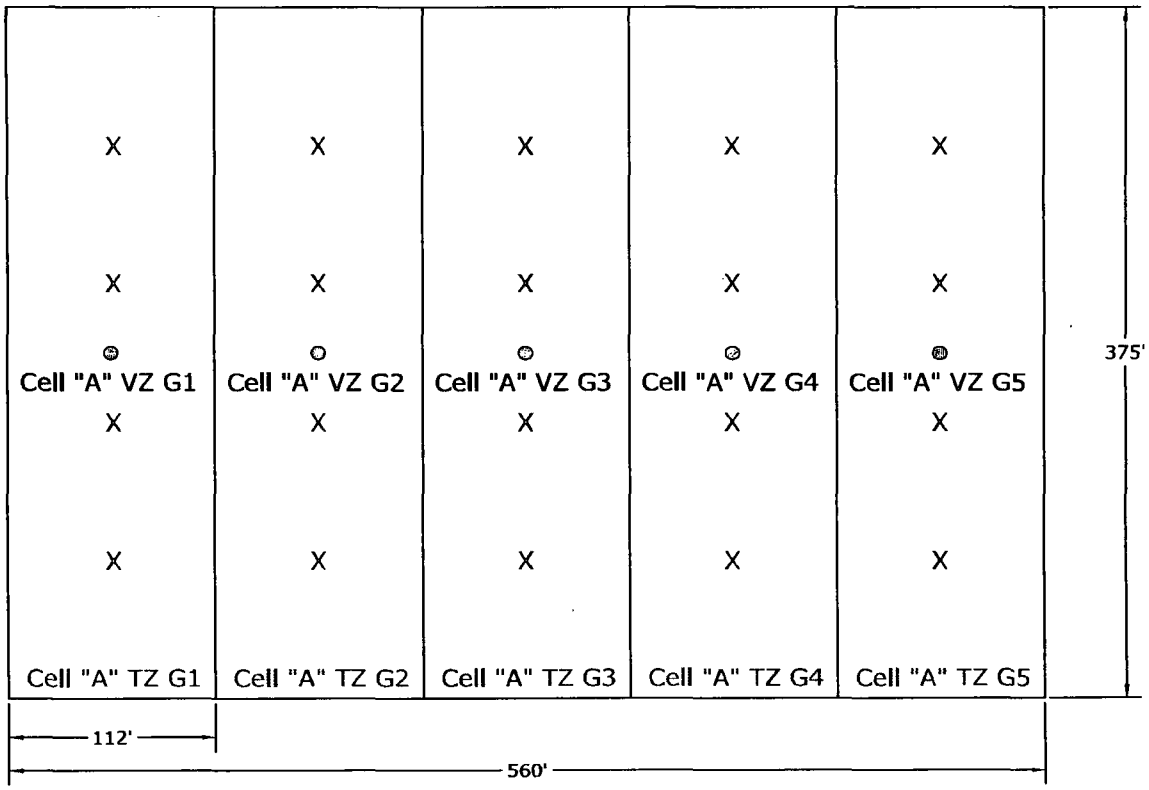
412 N. DAL PASO – HOBBS, NEW MEXICO – 505-393-3117

LINK ENERGY PIPELINE LIMITED PARTNERSHIP

SURVEY TO LOCATE PROPERTY CORNERS.
PROPOSED FENCE LINES AND CELL SITES IN SECTION 28,
TOWNSHIP 20 SOUTH, RANGE 37 EAST.
N.M.P.M., LEA COUNTY, NEW MEXICO.

Survey Date: 12/04/03	Sheet 1 of 1 Sheets
W.O. Number: 03.11.1328	DRAWN BY: A.W.B
Date: 12/05/03 DISK: 10	LOTS & LAND Scale: 1"=500'

Figure 1: Lea Station Landfarm Survey Map



100 50 0 50 100

Distance in Feet

LEGEND:

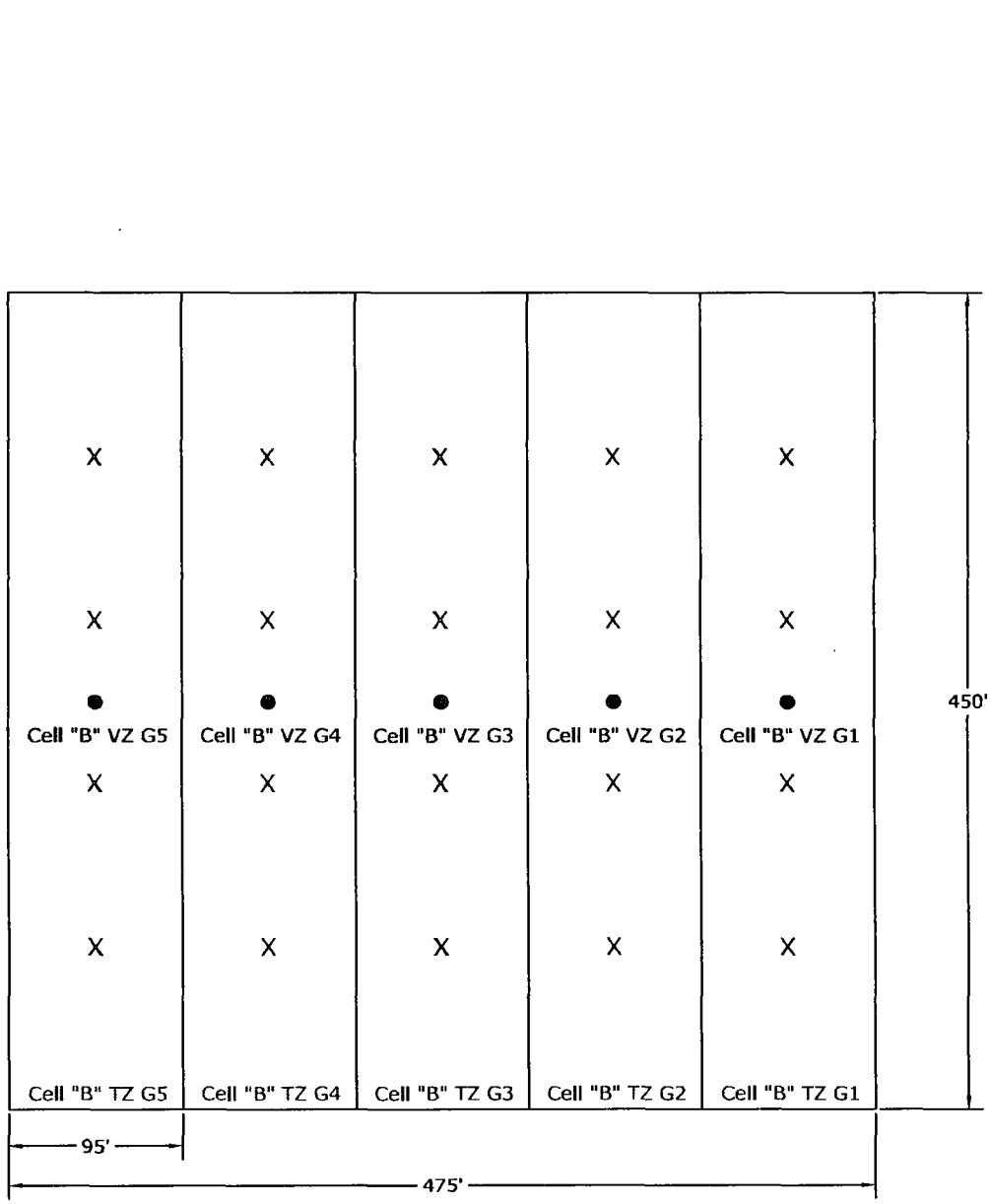
X 4-Point Composite Treatment Cell Soil Sample Location

Vadose Zone Soil Sample Location

Figure 2
Cell "A" Soil Sample Location Map
June and November 2008
Plains Marketing, L.P.
Lea Station Landfarm
Lea County, NM
SRS-2004-00061
NMOCD #GW-351

Basin Environmental Services

Scale: 1" = 100'	Drawn By: CDS	Prepared By: CDS
March 15, 2009		
W 1/2 of NW 1/4 of Section 287, Township 20 South, Range 37 E		



LEGEND:

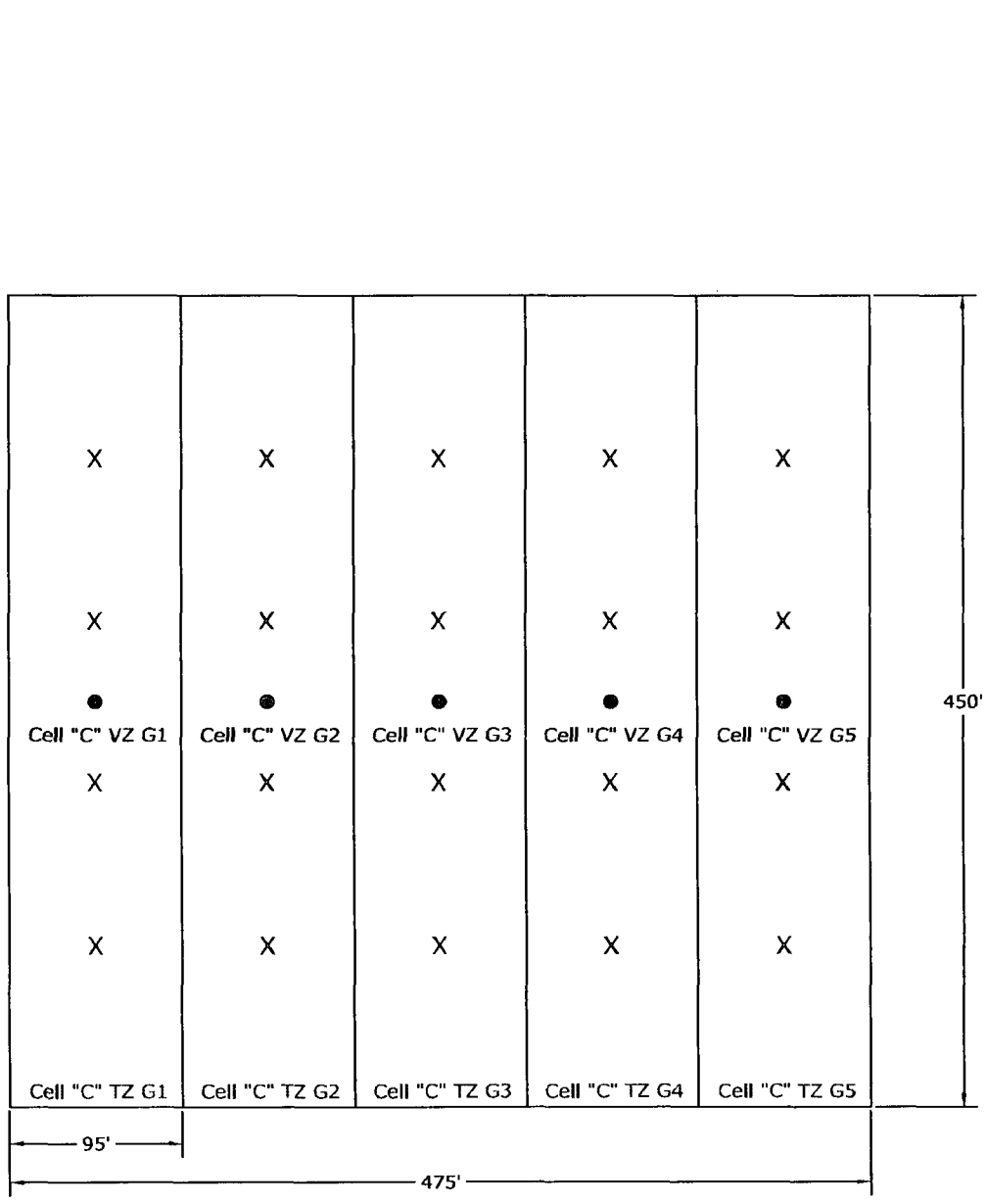
X 4-Point Composite Treatment Cell Soil Sample Location

● Vadose Zone Soil Sample Location

Figure 3
Cell "B" Soil Sample Location Map
June and November 2008
Plains Marketing, L.P.
Lea Station Landfarm
Lea County, NM
SRS-2004-00061
NMOCD #GW-351

Basin Environmental Services

Scale: 1" = 100'	Drawn By: CDS	Prepared By: CDS
March 16, 2009		
W 1/2 of NW 1/4 of Section 287, Township 20 South, Range 37 E		



LEGEND:

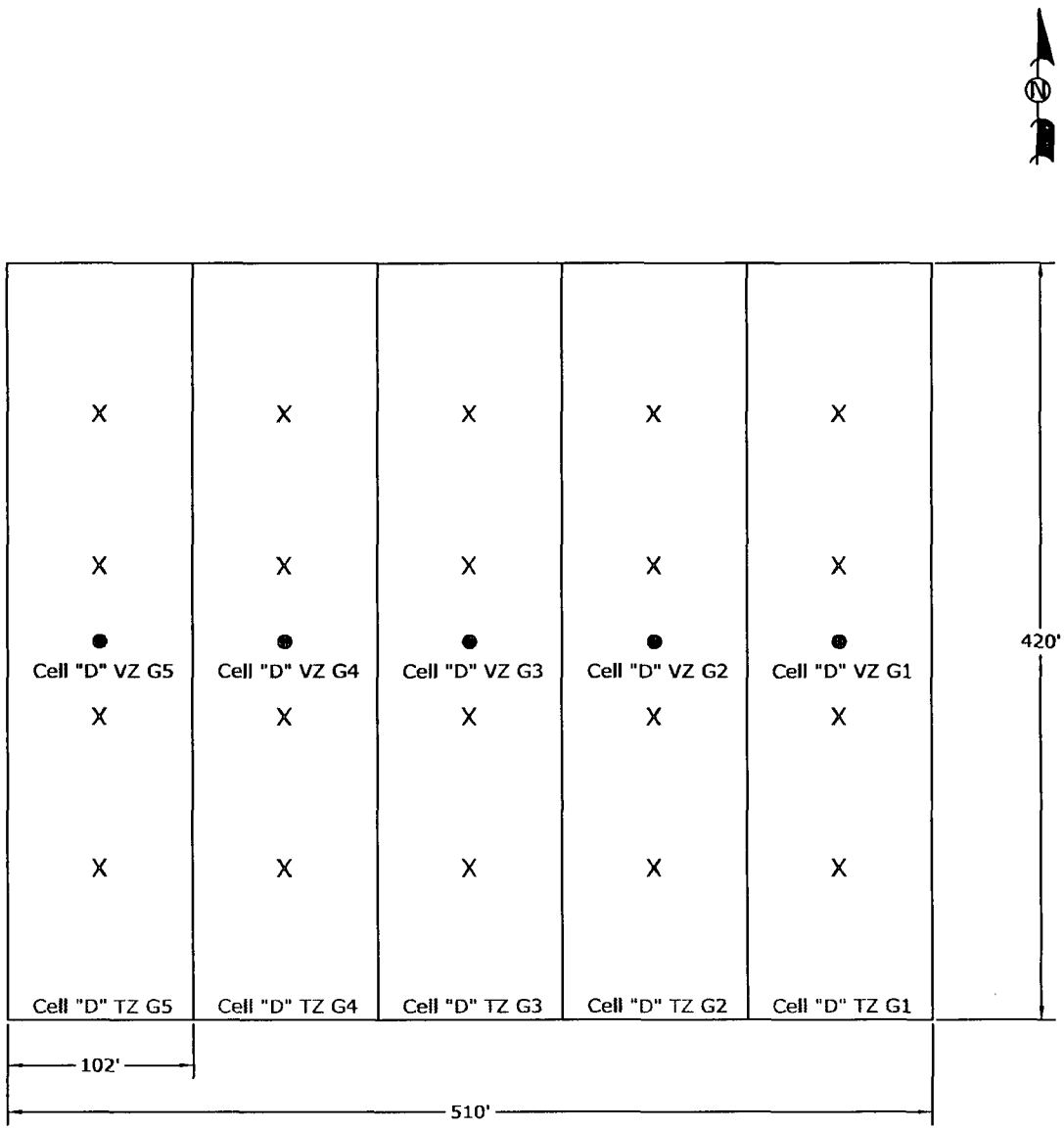
X 4-Point Composite Treatment Cell Soil Sample Location

● Vadose Zone Soil Sample Location

Figure 4
Cell "C" Soil Sample Location Map
June and November 2008
Plains Marketing, L.P.
Lea Station Landfarm
Lea County, NM
SRS-2004-00061
NMOCD #GW-351

Basin Environmental Services

Scale: 1" = 100'	Drawn By: CDS	Prepared By: CDS
March 16, 2009		
W 1/2 of NW 1/4 of Section 287, Township 20 South, Range 37 E		



LEGEND:

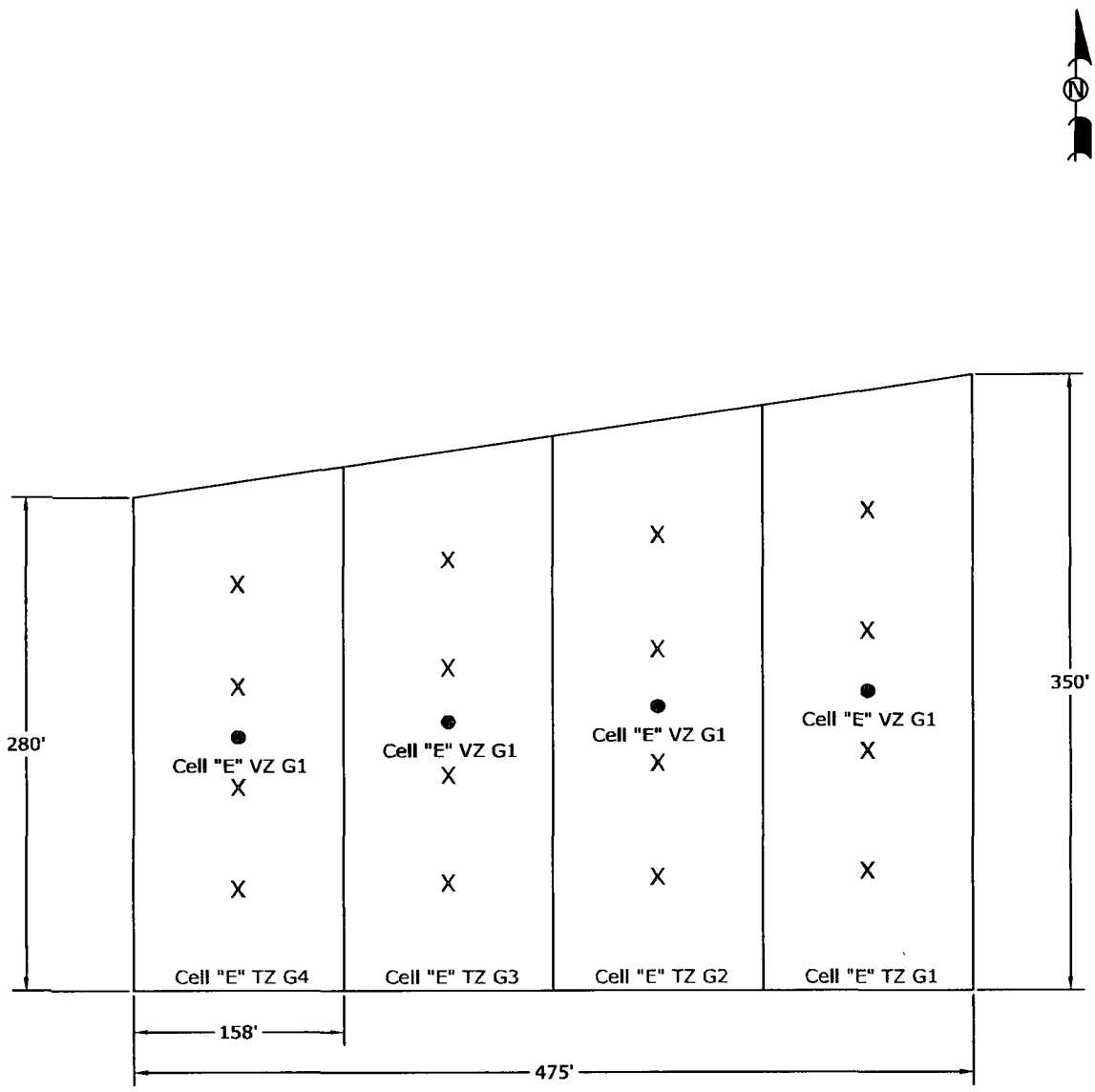
X 4-Point Composite Treatment Cell Soil Sample Location

● Vadose Zone Soil Sample Location

Figure 5
Cell "D" Soil Sample Location Map
June and November 2008
Plains Marketing, L.P.
Lea Station Landfarm
Lea County, NM
SRS-2004-00061
NMOCD #GW-351

Basin Environmental Services

Scale: 1" = 100'	Drawn By: CDS	Prepared By: CDS
March 16, 2009		
W 1/2 of NW 1/4 of Section 287, Township 20 South, Range 37 E		



100 50 0 50 100

Distance In Feet

LEGEND:

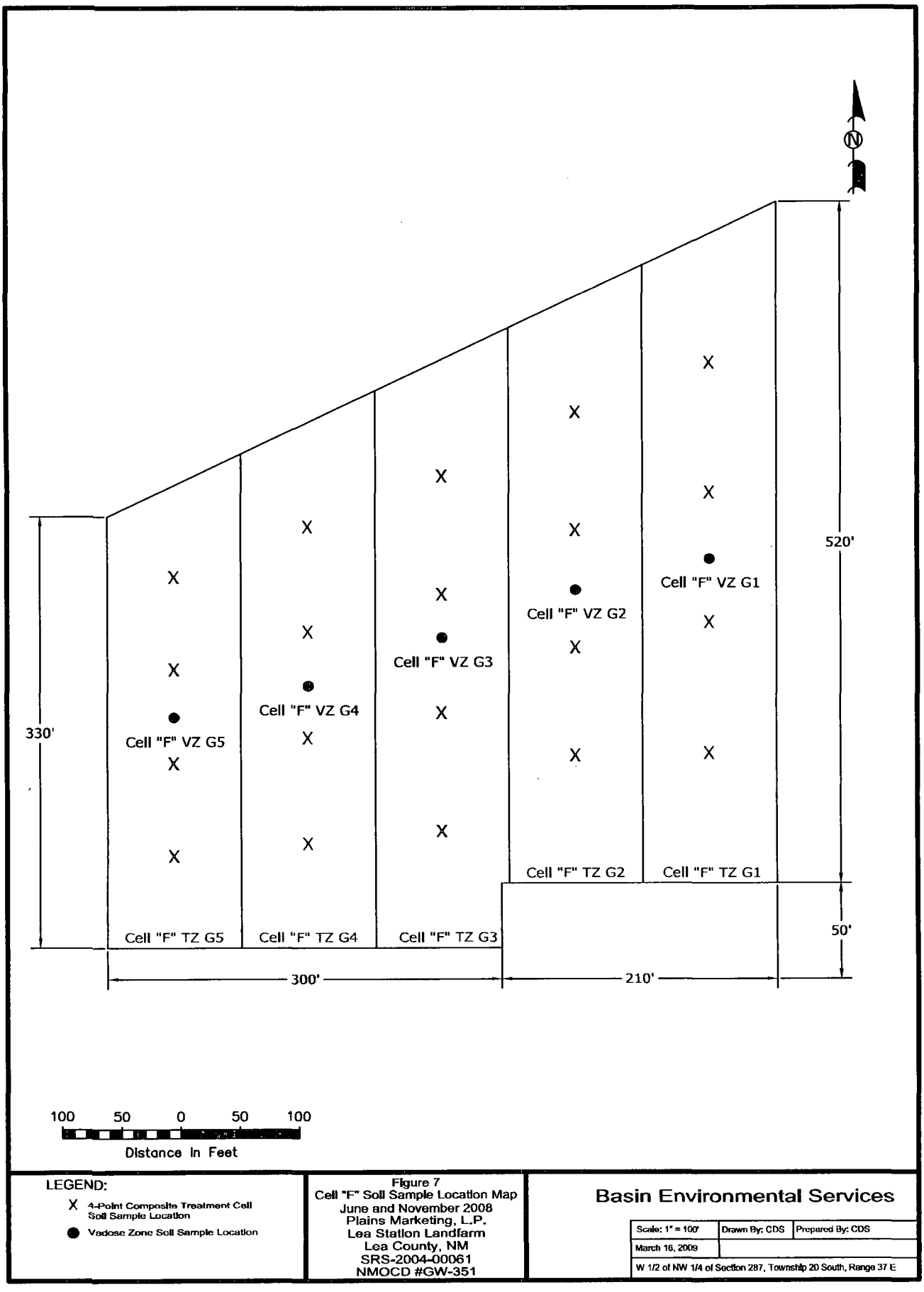
X 4-Point Composite Treatment Cell Soil Sample Location

● Vadose Zone Soil Sample Location

Figure 6
Cell "E" Soil Sample Location Map
June and November 2008
Plains Marketing, L.P.
Lea Station Landfarm
Lea County, NM
SRS-2004-00061
NMOCD #GW-351

Basin Environmental Services

Scale: 1" = 100'	Drawn By: CDS	Prepared By: CDS
March 16, 2009		
W 1/2 of NW 1/4 of Section 287, Township 20 South, Range 37 E		



LEGEND:

X 4-Point Composite Treatment Cell Soil Sample Location

● Vadose Zone Soil Sample Location

Figure 7
Cell "F" Soil Sample Location Map
June and November 2008
Plains Marketing, L.P.
Lea Station Landfarm
Lea County, NM
SRS-2004-00061
NMOCD #GW-351

Basin Environmental Services

Scale: 1" = 100'	Drawn By: CDS	Prepared By: CDS
March 16, 2009		
W 1/2 of NW 1/4 of Section 287, Township 20 South, Range 37 E		

TABLE 1

2008 CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN THE TREATMENT ZONE

PLAINS MARKETING, L.P.
LEA STATION LAND FARM
LEA COUNTY, NEW MEXICO
PLAINS SRS: 2004-00061
NMOCD #GW-351

SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	EPA 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENES (mg/Kg)	O-XYLENES (mg/Kg)	BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		Chloride (mg/kg)
Cell A TZ G 1	8"	6/20/2008	-	-	-	-	-	-	20.7	2510	763	3,293.7	52.2
Cell A TZ G 2	8"	6/20/2008	-	-	-	-	-	-	21.3	2740	774	3,535.3	59.0
Cell A TZ G 3	8"	6/20/2008	-	-	-	-	-	-	<15.1	1900	615	2,515	30.0
Cell A TZ G 4	8"	6/20/2008	-	-	-	-	-	-	19.5	1430	554	2,003.5	36.6
Cell A TZ G 5	8"	6/20/2008	-	-	-	-	-	-	<15.1	384	196	580	8.2
Cell B TZ G 1	8"	6/20/2008	-	-	-	-	-	-	<15.2	4010	1090	5,100	26.7
Cell B TZ G 2	8"	6/20/2008	-	-	-	-	-	-	<15.2	2980	960	3,940	36.5
Cell B TZ G 3	8"	6/20/2008	-	-	-	-	-	-	<15.1	787	320	1,107	34.4
Cell B TZ G 4	8"	6/20/2008	-	-	-	-	-	-	<15.1	730	321	1,051	30.7
Cell B TZ G 5	8"	6/20/2008	-	-	-	-	-	-	<15.1	235	131	366	12
Cell C TZ G 1	8"	6/20/2008	-	-	-	-	-	-	<15.1	484	217	701	<5.04
Cell C TZ G 2	8"	6/20/2008	-	-	-	-	-	-	<15.2	745	237	982	9.85
Cell C TZ G 3	8"	6/20/2008	-	-	-	-	-	-	<15.1	576	285	861	13.3
Cell C TZ G 4	8"	6/20/2008	-	-	-	-	-	-	<15.2	345	186	531	12.1
Cell C TZ G 5	8"	6/20/2008	-	-	-	-	-	-	<15.2	329	223	552	21.8
Cell D TZ G 1	8"	6/20/2008	-	-	-	-	-	-	<15.1	2460	659	3,119	15.9
Cell D TZ G 2	8"	6/20/2008	-	-	-	-	-	-	20.3	2940	730	3,690.3	36.2
Cell D TZ G 3	8"	6/20/2008	-	-	-	-	-	-	<15.1	2970	763	3,733	103
Cell D TZ G 4	8"	6/20/2008	-	-	-	-	-	-	<15.1	1990	640	2,630	106
Cell D TZ G 5	8"	6/20/2008	-	-	-	-	-	-	<15.1	2080	565	2,645	61.1
Cell E TZ G 1	8"	6/20/2008	-	-	-	-	-	-	<15.1	718	371	1,089	<5.04
Cell E TZ G 2	8"	6/20/2008	-	-	-	-	-	-	<15.1	1140	521	1,661	<5.04
Cell E TZ G 3	8"	6/20/2008	-	-	-	-	-	-	<15.1	422	217	639	<5.02
Cell E TZ G 4	8"	6/20/2008	-	-	-	-	-	-	<15.1	116	72.6	188.6	<5.02

TABLE 1

2008 CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN THE TREATMENT ZONE

PLAINS MARKETING, L.P.
LEA STATION LAND FARM
LEA COUNTY, NEW MEXICO
PLAINS SRS: 2004-00061
NMOCD #GW-351

SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	EPA 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENES (mg/Kg)	O-XYLENES (mg/Kg)	BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		Chloride (mg/kg)
Cell F TZ G 1	8"	6/20/2008	-	-	-	-	-	-	36.5	1840	402	2,278.5	26.1
Cell F TZ G 2	8"	6/20/2008	-	-	-	-	-	-	39.1	1730	350	2,119.1	5.9
Cell A TZ G 1	8"	11/13/2008	-	-	-	-	-	-	<15.6	396	247	643	36.3
Cell A TZ G 2	8"	11/13/2008	-	-	-	-	-	-	<16.4	144	69.5	213.5	31.6
Cell A TZ G 3	8"	11/13/2008	-	-	-	-	-	-	<16.2	115	66.1	181.1	10.9
Cell A TZ G 4	8"	11/13/2008	-	-	-	-	-	-	<5.7	193	133	326	<5.24
Cell A TZ G 5	8"	11/13/2008	-	-	-	-	-	-	<16.2	63.4	36.9	100.3	<5.40
Cell B TZ G 1	8"	11/13/2008	-	-	-	-	-	-	<15.9	857	292	1,149	<5.30
Cell B TZ G 2	8"	11/13/2008	-	-	-	-	-	-	<16.2	279	156	435	12
Cell B TZ G 3	8"	11/13/2008	-	-	-	-	-	-	<16.1	75.6	50	125.6	<5.38
Cell B TZ G 4	8"	11/13/2008	-	-	-	-	-	-	<16.1	110	45.6	155.6	<5.37
Cell B TZ G 5	8"	11/13/2008	-	-	-	-	-	-	<15.9	63	35.1	98.1	<5.28
Cell C TZ G 1	8"	11/13/2008	-	-	-	-	-	-	<16.2	36.1	<16.2	36.1	24.3
Cell C TZ G 2	8"	11/13/2008	-	-	-	-	-	-	<16.1	52.6	19	71.6	<10.7
Cell C TZ G 3	8"	11/13/2008	-	-	-	-	-	-	<16.3	46.8	22.4	69.2	<5.42
Cell C TZ G 4	8"	11/13/2008	-	-	-	-	-	-	<15.9	50.7	16.9	67.6	<5.31
Cell C TZ G 5	8"	11/13/2008	-	-	-	-	-	-	<16.3	53.8	27.7	81.5	<5.43
Cell D TZ G 1	8"	11/13/2008	-	-	-	-	-	-	<15.9	467	158	625	16.8
Cell D TZ G 2	8"	11/13/2008	-	-	-	-	-	-	<16.0	373	134	507	20.3
Cell D TZ G 3	8"	11/13/2008	-	-	-	-	-	-	<16.2	557	209	766	56.4
Cell D TZ G 4	8"	11/13/2008	-	-	-	-	-	-	<15.9	515	206	721	9.85
Cell D TZ G 5	8"	11/13/2008	-	-	-	-	-	-	<15.9	1510	378	1,888	<5.31
Cell E TZ G 1	8"	11/13/2008	-	-	-	-	-	-	<15.8	109	76.2	185.2	<5.27
Cell E TZ G 2	8"	11/13/2008	-	-	-	-	-	-	<15.8	167	101	268	<5.25

TABLE 1

2008 CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN THE TREATMENT ZONE

PLAINS MARKETING, L.P.
LEA STATION LAND FARM
LEA COUNTY, NEW MEXICO
PLAINS SRS: 2004-00061
NMOCD #GW-351

SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	EPA 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENES (mg/Kg)	O-XYLENES (mg/Kg)	BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		Chloride (mg/kg)
Cell E TZ G 3	8"	11/13/2008	-	-	-	-	-	-	<15.8	79	44.8	123.8	<5.28
Cell E TZ G 4	8"	11/13/2008	-	-	-	-	-	-	<16.1	20.4	17.4	37.8	<5.38
Cell F TZ G 1	8"	11/13/2008	-	-	-	-	-	-	<16.7	214	109	323	166
Cell F TZ G 2	8"	11/13/2008	-	-	-	-	-	-	<16.4	189	74.7	263.7	193
Cell F TZ G 3	8"	11/13/2008	-	-	-	-	-	-	<16.7	415	96.6	511.6	131
Cell F TZ G 4	8"	11/13/2008	-	-	-	-	-	-	<16.1	431	98.7	529.7	140
Cell F TZ G 5	8"	11/13/2008	-	-	-	-	-	-	<15.9	139	60	199	30.7

TABLE 2

HISTORIC CONCENTRATIONS OF HYDROCARBONS, CHLORIDES, SULFATES AND ALKALINITY IN THE VADOSE ZONE

PLAINS MARKETING, L.P.

LEA STATION LANDFARM

LEA COUNTY, NEW MEXICO

PLAINS SRS #2004-00061

NMOCD #GW-351

Sample ID	Landfarm Cell	Sample Date	PID analyses (ppm)	Sample Depth (feet-bgs)	Benzene (mg/Kg)	Toluene (mg/Kg)	Eythlbenzene (mg/Kg)	m,p-xylene (mg/Kg)	o-xylene (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)	Sulfate (mg/Kg)	Carbonate Alkalinity (mg/Kg)	Bicarbonate Alkalinity (mg/Kg)	Hydroxide Alkalinity (mg/Kg)	Total Alkalinity (mg/Kg)
CESLELSLF11604BGS	Background	16-Jan-04	--	3.5-4.0	<0.020	<0.020	<0.020	<0.040	<0.020	<0.040	<5.0	<2.5	<5.0	10.60	<5	<50	<50	--	<50
SPLSLF83104CC-4'	C	31-Aug-04	--	3.5-4.0	<0.020	<0.020	<0.020	<0.040	<0.020	<0.040	<5.0	<2.5	<5.0	--	--	--	--	--	--
SPLSLF83104CE-4'	E	31-Aug-04	--	3.5-4.0	<0.020	<0.020	<0.020	<0.040	<0.020	<0.040	<5.0	<2.5	<5.0	--	--	--	--	--	--
Cell B Treatment Zone	B	28-Oct-05	0.80	3.5-4.0	<0.025	0.0159 [A]	0.0273	0.0896	0.0190 [A]	0.30	<10.0	<10.0	<10.0	9.37	24.4	nr	nr	--	433
Cell C Treatment Zone	C	28-Oct-05	1.20	3.5-4.0	<0.025	<0.025	<0.025	0.0235 [A]	<0.025	<0.025	<10.0	<10.0	<10.0	7.74	23.1	nr	nr	--	433
Cell E Treatment Zone	E	28-Oct-05	0.30	3.5-4.0	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	20.9	35.2	nr	nr	--	1,580
Cell A Treatment Zone- 3' to 4'	A	26-Jul-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	1.17 [A]	8.35	<0.500	240	<0.500	240
Cell B Treatment Zone- 3' to 4'	B	26-Jul-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	4.76 [A]	9.51	40.0	180	<0.500	220
Cell C Treatment Zone- 3' to 4'	C	26-Jul-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	1.45 [A]	45.8	<0.500	220	<0.500	220
Cell E Treatment Zone- 3' to 4'	E	26-Jul-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	2.95 [A]	44.7	<0.500	225	<0.500	225
Cell A Treatment Zone- 3' to 4'	A	14-Dec-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	--	--	--	--	--	--
Cell B Treatment Zone- 3' to 4'	B	14-Dec-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	--	--	--	--	--	--
Cell C Treatment Zone- 3' to 4'	C	14-Dec-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	--	--	--	--	--	--
Cell E Treatment Zone- 3' to 4'	E	14-Dec-06	--	3.0 -4.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<10.0	<10.0	<10.0	--	--	--	--	--	--

A = Estimated value. analyte detected less than reported limit

-- = Not analyzed

nr = Not reported separately for the sample

TABLE 3

HISTORIC CONCENTRATIONS OF METALS IN THE VADOSE ZONE
PLAINS MARKETING, L.P.
LEA STATION LANDFARM
LEA COUNTY, NEW MEXICO
PLAINS SRS 2004-00061
NMOCD #GW-351

Sample ID	Landfarm Cell	Sample Date	Sample Depth (feet-bgs)	SW-846 6010 & 200.7		258.1 & 7670	SW-6010 & 200.7								
				Calcium (mg/Kg)	Magnesium (mg/Kg)	Potassium (mg/Kg)	Sodium (mg/Kg)	Mercury (mg/Kg)	Chromium (mg/Kg)	Arsenic (mg/Kg)	Selenium (mg/Kg)	Silver (mg/Kg)	Cadmium (mg/Kg)	Barium (mg/Kg)	Lead (mg/Kg)
CESLELSLF11604BGS	Background	16-Jan-04	3.5-4.0	664	1,540	744	30.1	<0.04	4.42	<1	<5.0	<2.5	<2	15.2	<1
SPLSLF83104CC-4'	C	31-Aug-04	3.5-4.0	--	--	--	--	--	--	--	--	--	--	--	--
SPLSLF83104CE-4'	E	31-Aug-04	3.5-4.0	--	--	--	--	--	--	--	--	--	--	--	--
Cell B Treatment Zone	B	28-Oct-05	3.5-4.0	30,400	1,350	235	1,420	0.01230 [A]	1.43	<0.400	<0.200	<0.250	0.423	35.8	2.30
Cell C Treatment Zone	C	28-Oct-05	3.5-4.0	20,800	902	238	1,700	0.02204 [A]	3.81	<0.400	<0.200	<0.250	0.973	47.4	<0.550
Cell E Treatment Zone	E	28-Oct-05	3.5-4.0	89,900	3,680	506	2,670	0.01847 [A]	3.52	1.36	<0.200	<0.250	1.13	111	2.80
Cell A Treatment Zone- 3' to 4'	A	26-Jul-06	3.0 -4.0	47.8	5.82	4.48	2.26	0.009424 [A]	<2.44	1.65 [A]	<7.51	1.01	<1.73	17.3	<0.740
Cell B Treatment Zone- 3' to 4'	B	26-Jul-06	3.0 -4.0	27.9	8.16	9.17	3.78	0.03174	<2.44	3.33 [A]	1.71 [A]	<1.01	<1.73	147	<0.740
Cell C Treatment Zone- 3' to 4'	C	26-Jul-06	3.0 -4.0	51.5	6.06	3.07	12.1	0.009956 [A]	<2.44	0.953 [A]	<7.51	<1.01	<1.73	40.0	<0.740
Cell E Treatment Zone- 3' to 4'	E	26-Jul-06	3.0 -4.0	57.5	10.3	16.0	9.17	0.01564	1.47 [A]	1.29 [A]	2.47 [A]	<1.01	<1.73	50.4	<0.740

A = Estimated value, analyte detected less than reported limit
-- = Not analyzed

TABLE 4

2008 CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, L.P.
LEA STATION LAND FARM
LEA COUNTY, NEW MEXICO
PLAINS SRS: 2004-00061
NMOCD #GW-351

SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	EPA 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENES (mg/Kg)	O-XYLENES (mg/Kg)	BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		Chloride (mg/kg)
Cell A VZ G 1 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	<5.30
Cell A VZ G 2 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<5.16
Cell A VZ G 3 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	<5.15
Cell A VZ G 4 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.0	<16.0	<16.0	<16.0	<5.32
Cell A VZ G 5 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	<5.25
Cell B VZ G 1 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	<5.11
Cell B VZ G 2 (3'-4')	3' - 4'	6/20/2008	<0.0013	<0.0026	<0.0013	<0.0026	<0.0013	<0.0026	<19.3	<19.3	<19.3	<19.3	<6.44
Cell B VZ G 3 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	<5.31
Cell B VZ G 4 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<5.16
Cell B VZ G 5 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.0	<15.0	<15.0	<15.0	<5.02
Cell C VZ G 1 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	<16.2	<16.2	<16.2	<5.41
Cell C VZ G 2 (3'-4')	3' - 4'	6/20/2008	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.4	<17.4	<17.4	<17.4	<5.80
Cell C VZ G 3 (3'-4')	3' - 4'	6/20/2008	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.8	<17.8	<17.8	<17.8	<5.94
Cell C VZ G 4 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	<5.19
Cell C VZ G 5 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	<16.4	<16.4	<16.4	<5.46
Cell D VZ G 1 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.2	<17.2	<17.2	<17.2	<5.73
Cell D VZ G 2 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.0	<17.0	<17.0	<17.0	<5.68
Cell D VZ G 3 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.4	<15.4	<15.4	<15.4	<5.15
Cell D VZ G 4 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.9	<16.9	<16.9	<16.9	<5.63
Cell D VZ G 5 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	<5.58
Cell E VZ G 1 (3'-4')	3' - 4'	6/20/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	<16.4	<16.4	<16.4	<5.45
Cell E VZ G 2 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.7	<15.7	<15.7	<15.7	<5.24
Cell E VZ G 3 (3'-4')	3' - 4'	6/20/2008	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.6	<17.6	<17.6	<17.6	<5.87
Cell E VZ G 4 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.7	<15.7	<15.7	<15.7	<5.24
Cell F VZ G 1 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	<5.08
Cell F VZ G 2 (3'-4')	3' - 4'	6/20/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.2	<15.2	<15.2	<15.2	<5.06

TABLE 4

2008 CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, L.P.
LEA STATION LAND FARM
LEA COUNTY, NEW MEXICO
PLAINS SRS: 2004-00061
NMOCD #GW-351

SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	EPA 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENES (mg/Kg)	O-XYLENES (mg/Kg)	BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		Chloride (mg/kg)
Cell A VZ G 1 (3'-4')	3' - 4'	11/14/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5	<5.17
Cell A VZ G 2 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.0	<16.0	<16.0	<16.0	<5.34
Cell A VZ G 3 (3'-4')	3' - 4'	11/14/2008	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.3	<17.3	<17.3	<17.3	<5.76
Cell A VZ G 4 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.1	<17.1	<17.1	<17.1	<5.71
Cell A VZ G 5 (3'-4')	3' - 4'	11/14/2008	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<18.3	<18.3	<18.3	<18.3	<6.10
Cell B VZ G 1 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.8	<16.8	<16.8	<16.8	<5.61
Cell B VZ G 2 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	<5.55
Cell B VZ G 3 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	<5.26
Cell B VZ G 4 (3'-4')	3' - 4'	11/14/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	<5.11
Cell B VZ G 5 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.5	<16.5	<16.5	<16.5	<5.50
Cell C VZ G 1 (3'-4')	3' - 4'	11/14/2008	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<18.3	<18.3	<18.3	<18.3	<6.09
Cell C VZ G 2 (3'-4')	3' - 4'	11/14/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	<5.19
Cell C VZ G 3 (3'-4')	3' - 4'	11/14/2008	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<18.4	<18.4	<18.4	<18.4	<6.12
Cell C VZ G 4 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.2	<17.2	<17.2	<17.2	<5.74
Cell C VZ G 5 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.8	<16.8	<16.8	<16.8	<5.60
Cell D VZ G 1 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	<16.6	<16.6	<16.6	<5.53
Cell D VZ G 2 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	<16.2	<16.2	<16.2	<5.41
Cell D VZ G 3 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	<16.6	<16.6	<16.6	<5.53
Cell D VZ G 4 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.2	<17.2	<17.2	<17.2	<5.73
Cell D VZ G 5 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.8	<16.8	<16.8	<16.8	<5.61
Cell E VZ G 1 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.3	<16.3	<16.3	<16.3	<5.44
Cell E VZ G 2 (3'-4')	3' - 4'	11/14/2008	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6	<5.21
Cell E VZ G 3 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	32.1
Cell E VZ G 4 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.2	<16.2	<16.2	<16.2	<5.40
Cell F VZ G 1 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9	<5.29
Cell F VZ G 2 (3'-4')	3' - 4'	11/14/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.3	<15.3	<15.3	<15.3	<5.10
Cell F VZ G 3 (3'-4')	3' - 4'	11/14/2008	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	<16.6	<16.6	<16.6	<5.52

TABLE 4

2008 CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN THE VADOSE ZONE

PLAINS MARKETING, L.P.
LEA STATION LAND FARM
LEA COUNTY, NEW MEXICO
PLAINS SRS: 2004-00061
NMOCD #GW-351

SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	EPA 300
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENES (mg/Kg)	O-XYLENES (mg/Kg)	BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		Chloride (mg/kg)
Cell F VZ G 4 (3'-4')	3' - 4'	11/14/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.1	<15.1	<15.1	<15.1	<5.04
Cell F VZ G 5 (3'-4')	3' - 4'	11/14/2008	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<15.1	<15.1	<15.1	<15.1	<5.02
Background	**3' - 4'**	**1/16/2004**	**<0.02**	**<0.02**	**<0.02**	**<0.04**	**<0.02**	**<0.04**	**<5**	**<2.5**		**<5**	**10.6**

Analytical Report 306426

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lea Station Land Farm

2004-00061

27-JUN-08

ENVIRONMENTAL LAB OF

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

27-JUN-08

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **306426**
Lea Station Land Farm
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 306426. 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. 306426 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

Sample Cross Reference 306426

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell A TZ G 1	S	Jun-20-08 08:00		306426-001
Cell A TZ G 2	S	Jun-20-08 08:10		306426-002
Cell A TZ G 3	S	Jun-20-08 08:20		306426-003
Cell A TZ G 4	S	Jun-20-08 08:30		306426-004
Cell A TZ G 5	S	Jun-20-08 08:40		306426-005

Certificate of Analysis Summary 306426

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: 2004-00061
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Mon Jun-23-08 05:06 pm
Report Date: 27-JUN-08
Project Manager: Brent Barron, II

Analysis Requested															
	Lab Id:	306426-001		306426-002		306426-003		306426-004		306426-005					
	Field Id:	Cell A TZ G 1		Cell A TZ G 2		Cell A TZ G 3		Cell A TZ G 4		Cell A TZ G 5					
	Depth:														
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL					
	Sampled:	Jun-20-08 08:00		Jun-20-08 08:10		Jun-20-08 08:20		Jun-20-08 08:30		Jun-20-08 08:40					
Inorganic Anions by EPA 300	***Extracted:***														
	Analyzed:	Jun-25-08 20:58		Jun-25-08 20:58		Jun-25-08 20:58		Jun-25-08 20:58		Jun-25-08 20:58					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		52.2	5.04	59.0	5.04	30.0	5.05	36.6	5.04	8.16	5.04				
Percent Moisture	***Extracted:***														
	Analyzed:	Jun-25-08 07:50		Jun-25-08 07:50		Jun-25-08 07:50		Jun-25-08 07:50		Jun-25-08 07:50					
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL				
Percent Moisture		ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00				
TPH by SW8015 Mod	***Extracted:***	Jun-24-08 17:30		Jun-24-08 17:30		Jun-24-08 17:30		Jun-24-08 17:30		Jun-24-08 17:30					
	Analyzed:	Jun-25-08 08:08		Jun-25-08 10:21		Jun-25-08 10:47		Jun-26-08 10:51		Jun-25-08 11:40					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		20.7	15.1	21.3	15.1	ND	15.1	19.5	15.1	ND	15.1				
C12-C28 Diesel Range Hydrocarbons		2510	15.1	2740	15.1	1900	15.1	1430	15.1	384	15.1				
C28-C35 Oil Range Hydrocarbons		763	15.1	774	15.1	615	15.1	554	15.1	196	15.1				
Total TPH		3293.7		3535.3		2515		2003.5		580					

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

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(PQL) and above the SQL(MDL).

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

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306426 **Project ID:** 2004-00061

Lab Batch #: 726495 **Sample:** 306426-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	71.5	100	72	70-135	
o-Terphenyl	38.3	50.0	77	70-135	

Lab Batch #: 726495 **Sample:** 306426-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	68.2	100	68	70-135	**
o-Terphenyl	35.9	50.0	72	70-135	

Lab Batch #: 726495 **Sample:** 306426-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	65.9	100	66	70-135	**
o-Terphenyl	34.5	50.0	69	70-135	**

Lab Batch #: 726495 **Sample:** 306426-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	70.9	100	71	70-135	
o-Terphenyl	36.0	50.0	72	70-135	

Lab Batch #: 726495 **Sample:** 306426-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	59.9	100	60	70-135	**
o-Terphenyl	30.6	50.0	61	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: Lea Station Land Farm

Work Order #: 306426 **Project ID:** 2004-00061

Lab Batch #: 726495 **Sample:** 306427-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.8	100	76	70-135	
o-Terphenyl	33.4	50.0	67	70-135	**

Lab Batch #: 726495 **Sample:** 306427-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.1	100	75	70-135	
o-Terphenyl	33.3	50.0	67	70-135	**

Lab Batch #: 726495 **Sample:** 511212-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.1	100	88	70-135	
o-Terphenyl	41.0	50.0	82	70-135	

Lab Batch #: 726495 **Sample:** 511212-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.1	100	80	70-135	
o-Terphenyl	41.8	50.0	84	70-135	

Lab Batch #: 726495 **Sample:** 511212-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.4	100	80	70-135	
o-Terphenyl	37.0	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 306426 **Project ID:** 2004-00061

Lab Batch #: 726416 **Sample:** 726416-1-BKS **Matrix:** Solid

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	11.3	113	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306426 **Project ID:** 2004-00061

Analyst: ASA **Date Prepared:** 06/24/2008 **Date Analyzed:** 06/25/2008

Lab Batch ID: 726495 **Sample:** 511212-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1080	108	1000	986	99	9	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1120	112	1000	1010	101	10	70-135	35	

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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306426
Lab Batch #: 726416
Project ID: 2004-00061
Date Analyzed: 06/25/2008
Date Prepared: 06/25/2008
Analyst: LATCOR
QC- Sample ID: 306426-001 S
Batch #: 1
Matrix: Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	52.2	101	179	126	75-125	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 306426 **Project ID:** 2004-00061

Lab Batch ID: 726495 **QC- Sample ID:** 306427-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/25/2008 **Date Prepared:** 06/24/2008 **Analyst:** ASA

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	1000	937	94	1000	923	92	2	70-135	2	
C12-C28 Diesel Range Hydrocarbons	235	1000	1130	90	1000	1090	86	5	70-135	5	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 306426

Lab Batch #: 726416 **Project ID:** 2004-00061

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** LATCOR

QC- Sample ID: 306426-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	52.2	52.6	1	20	

Lab Batch #: 726278

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** IRO

QC- Sample ID: 306390-006 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	5.87	4.95	17	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley 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

Fax No: (505) 396-1429

Sampler Signature: [signature]

e-mail: cstanley@basinenv.com

Project Name: LEA STATION LAND FARM

Project #: SRS: 2004-00061

Project Loc: Lea County, NM

PO #: PAA - C. J. Reynolds

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 306426

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (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, SO4, Alkalinity)	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 300.1			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
TCLP: / TOTAL:																									X							
-001	CELL A TZ G 1			6/20/2008	800		1	X								SOIL	X											X				X
-002	CELL A TZ G 2			6/20/2008	810		1	X								SOIL	X											X				X
-003	CELL A TZ G 3			6/20/2008	820		1	X								SOIL	X											X				X
-004	CELL A TZ G 4			6/20/2008	830		1	X								SOIL	X											X				X
-005	CELL A TZ G 5			6/20/2008	840		1	X								SOIL	X											X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6/23/08	1706			
Relinquished by: [illegible]			Received by:		
Relinquished by:			Received by ELOT: [signature]	6.23.08	17:06

Laboratory Comments:

	Y	N
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 Sampler/Client Rep. ?		N
by Courier? UPS DHL FedEx Lone Star		

4029455

Temperature Upon Receipt: 4.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 06-23-08 @ 1706

Lab ID # : 306126

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.0 °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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 306427

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lea Station Land Farm

2004-00061

27-JUN-08

ENVIRONMENTAL LAB OF

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

27-JUN-08

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **306427**
Lea Station Land Farm
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 306427. 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. 306427 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

Sample Cross Reference 306427

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell B TZ G 1	S	Jun-20-08 08:50		306427-001
Cell B TZ G 2	S	Jun-20-08 09:00		306427-002
Cell B TZ G 3	S	Jun-20-08 09:10		306427-003
Cell B TZ G 4	S	Jun-20-08 09:20		306427-004
Cell B TZ G 5	S	Jun-20-08 09:30		306427-005

ENVIRONMENTAL LAB OF

Certificate of Analysis Summary 306427

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: 2004-00061
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Mon Jun-23-08 05:41 pm
Report Date: 27-JUN-08
Project Manager: Brent Barron, II

Analysis Requested															
	Lab Id:	306427-001		306427-002		306427-003		306427-004		306427-005					
	Field Id:	Cell B TZ G 1		Cell B TZ G 2		Cell B TZ G 3		Cell B TZ G 4		Cell B TZ G 5					
	Depth:														
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL					
	Sampled:	Jun-20-08 08:50		Jun-20-08 09:00		Jun-20-08 09:10		Jun-20-08 09:20		Jun-20-08 09:30					
Inorganic Anions by EPA 300	*Extracted:*														
	Analyzed:	Jun-25-08 20:58		Jun-25-08 20:58		Jun-25-08 20:58		Jun-25-08 20:58		Jun-25-08 20:58					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		26.7	5.07	36.5	10.1	34.4	5.04	30.7	5.04	12.0	5.02				
Percent Moisture	*Extracted:*														
	Analyzed:	Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10					
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL				
Percent Moisture		1.39	1.00	1.17	1.00	ND	1.00	ND	1.00	ND	1.00				
TPH by SW8015 Mod	*Extracted:*	Jun-24-08 17:30		Jun-24-08 17:30		Jun-24-08 17:30		Jun-24-08 17:30		Jun-24-08 17:30					
	Analyzed:	Jun-25-08 14:46		Jun-26-08 11:18		Jun-25-08 15:40		Jun-25-08 16:06		Jun-25-08 16:33					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	15.2	ND	15.2	ND	15.1	ND	15.1	ND	15.1				
C12-C28 Diesel Range Hydrocarbons		4010	15.2	2980	15.2	787	15.1	730	15.1	235	15.1				
C28-C35 Oil Range Hydrocarbons		1090	15.2	960	15.2	320	15.1	321	15.1	131	15.1				
Total TPH		5100		3940		1107		1051		366					

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(PQL) and above the SQL(MDL).

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

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306427 **Project ID:** 2004-00061

Lab Batch #: 726495 **Sample:** 306427-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	70.9	100	71	70-135	
o-Terphenyl	36.3	50.0	73	70-135	

Lab Batch #: 726495 **Sample:** 306427-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.0	100	84	70-135	
o-Terphenyl	44.4	50.0	89	70-135	

Lab Batch #: 726495 **Sample:** 306427-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	65.2	100	65	70-135	**
o-Terphenyl	34.2	50.0	68	70-135	**

Lab Batch #: 726495 **Sample:** 306427-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	68.5	100	69	70-135	**
o-Terphenyl	35.2	50.0	70	70-135	

Lab Batch #: 726495 **Sample:** 306427-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	74.1	100	74	70-135	
o-Terphenyl	38.5	50.0	77	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: Lea Station Land Farm

Work Order #: 306427 **Project ID:** 2004-00061

Lab Batch #: 726495 **Sample:** 306427-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.8	100	76	70-135	
o-Terphenyl	33.4	50.0	67	70-135	**

Lab Batch #: 726495 **Sample:** 306427-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.1	100	75	70-135	
o-Terphenyl	33.3	50.0	67	70-135	**

Lab Batch #: 726495 **Sample:** 511212-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.1	100	88	70-135	
o-Terphenyl	41.0	50.0	82	70-135	

Lab Batch #: 726495 **Sample:** 511212-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.1	100	80	70-135	
o-Terphenyl	41.8	50.0	84	70-135	

Lab Batch #: 726495 **Sample:** 511212-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.4	100	80	70-135	
o-Terphenyl	37.0	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 306427 **Project ID:** 2004-00061

Lab Batch #: 726416 **Sample:** 726416-1-BKS **Matrix:** Solid

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	11.3	113	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306427
Analyst: ASA
Lab Batch ID: 726495
Sample: 511212-1-BKS
Units: mg/kg

Date Prepared: 06/24/2008
Batch #: 1

Project ID: 2004-00061
Date Analyzed: 06/25/2008
Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1080	108	1000	986	99	9	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1120	112	1000	1010	101	10	70-135	35	

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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306427
Lab Batch #: 726416
Date Analyzed: 06/25/2008
QC- Sample ID: 306426-001 S
Reporting Units: mg/kg

Date Prepared: 06/25/2008
Batch #: 1

Project ID: 2004-00061
Analyst: LATCOR
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	52.2	101	179	126	75-125	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 306427 **Project ID:** 2004-00061

Lab Batch ID: 726495 **QC- Sample ID:** 306427-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/25/2008 **Date Prepared:** 06/24/2008 **Analyst:** ASA

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1000	937	94	1000	923	92	2	70-135	2	
C12-C28 Diesel Range Hydrocarbons	235	1000	1130	90	1000	1090	86	5	70-135	5	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 306427

Lab Batch #: 726416 **Project ID:** 2004-00061

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** LATCOR

QC- Sample ID: 306426-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	52.2	52.6	1	20	

Lab Batch #: 726285

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** IRO

QC- Sample ID: 306428-002 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	1.04	ND	NC	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley PAGE 01 OF 01 Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: 2004-00061

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) 441-2124 Fax No: (505) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: e-mail: cstanley@basinenv.com

(lab use only) ORDER #: 306427

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: SW = Drinking Water SL = Sludge; GW = Groundwater S = Soil/Solid; NP = Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 / 8015M / 8015B	TPH: TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or 8260	TCLP: TCLP: TCI	N.O.R.M.	CHLORIDES EPA 300.1			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
-001	CELL B TZ G 1			6/20/2008	850		1	X								SOIL	X								X							X
-002	CELL B TZ G 2			6/20/2008	900		1	X								SOIL	X								X							X
-003	CELL B TZ G 3			6/20/2008	910		1	X								SOIL	X								X							X
-004	CELL B TZ G 4			6/20/2008	920		1	X								SOIL	X								X							X
-005	CELL B TZ G 5			6/20/2008	930		1	X								SOIL	X								X							X

Special Instructions:

Relinquished by:	Date: 6/23/08	Time: 1706	Received by:	Date:	Time:	
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	
Relinquished by:	Date:	Time:	Received by ELOT: Andrea Lam	Date: 6.23.08	Time: 17:00	

Laboratory Comments:

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 by Sampler/Client Rep.? N

by Courier? UPS DHL FedEx Lone Star

4029a35

Temperature Upon Receipt: 4.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 06-23-08 @ 1706

Lab ID # : 306427

Initials: AL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.0 °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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 306428

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lea Station Land Farm

2004-00061

27-JUN-08

ENVIRONMENTAL LAB OF

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

27-JUN-08

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **306428**
Lea Station Land Farm
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 306428. 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. 306428 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

Sample Cross Reference 306428

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell C TZ G 1	S	Jun-20-08 09:40		306428-001
Cell C TZ G 2	S	Jun-20-08 09:50		306428-002
Cell C TZ G 3	S	Jun-20-08 10:00		306428-003
Cell C TZ G 4	S	Jun-20-08 10:10		306428-004
Cell C TZ G 5	S	Jun-20-08 10:20		306428-005

ENVIRONMENTAL LAB OF

Certificate of Analysis Summary 306428

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: 2004-00061
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Mon Jun-23-08 05:41 pm
Report Date: 27-JUN-08
Project Manager: Brent Barron, II

Analysis Requested															
	Lab Id:	306428-001		306428-002		306428-003		306428-004		306428-005					
	Field Id:	Cell C TZ G 1		Cell C TZ G 2		Cell C TZ G 3		Cell C TZ G 4		Cell C TZ G 5					
	Depth:														
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL					
	Sampled:	Jun-20-08 09:40		Jun-20-08 09:50		Jun-20-08 10:00		Jun-20-08 10:10		Jun-20-08 10:20					
Inorganic Anions by EPA 300	*Extracted:*														
	Analyzed:	Jun-25-08 20:58		Jun-25-08 20:58		Jun-25-08 20:58		Jun-25-08 20:58		Jun-25-08 20:58					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		ND	5.04	9.85	5.05	13.3	10.1	12.1	10.1	21.8	5.05				
Percent Moisture	*Extracted:*														
	Analyzed:	Jun-25-08 07:50		Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10					
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL				
Percent Moisture		ND	1.00	1.04	1.00	ND	1.00	1.09	1.00	1.03	1.00				
TPH by SW8015 Mod	*Extracted:*	Jun-24-08 17:30		Jun-24-08 17:30		Jun-24-08 17:30		Jun-24-08 17:30		Jun-24-08 17:30					
	Analyzed:	Jun-25-08 12:07		Jun-25-08 12:33		Jun-25-08 12:59		Jun-25-08 13:26		Jun-26-08 11:45					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	15.1	ND	15.2	ND	15.1	ND	15.2	ND	15.2				
C12-C28 Diesel Range Hydrocarbons		484	15.1	745	15.2	576	15.1	345	15.2	329	15.2				
C28-C35 Oil Range Hydrocarbons		217	15.1	237	15.2	285	15.1	186	15.2	223	15.2				
Total TPH		701		982		861		531		552					

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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(PQL) and above the SQL(MDL).

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

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306428 **Project ID:** 2004-00061

Lab Batch #: 726495 **Sample:** 306427-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.8	100	76	70-135	
o-Terphenyl	33.4	50.0	67	70-135	**

Lab Batch #: 726495 **Sample:** 306427-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.1	100	75	70-135	
o-Terphenyl	33.3	50.0	67	70-135	**

Lab Batch #: 726495 **Sample:** 306428-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	60.7	100	61	70-135	**
o-Terphenyl	31.0	50.0	62	70-135	**

Lab Batch #: 726495 **Sample:** 306428-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	70.0	100	70	70-135	
o-Terphenyl	35.4	50.0	71	70-135	

Lab Batch #: 726495 **Sample:** 306428-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	70.6	100	71	70-135	
o-Terphenyl	35.6	50.0	71	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: Lea Station Land Farm

Work Order #: 306428 **Project ID:** 2004-00061

Lab Batch #: 726495 **Sample:** 306428-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	65.7	100	66	70-135	**
o-Terphenyl	33.2	50.0	66	70-135	**

Lab Batch #: 726495 **Sample:** 306428-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.1	100	79	70-135	
o-Terphenyl	40.2	50.0	80	70-135	

Lab Batch #: 726495 **Sample:** 511212-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.1	100	88	70-135	
o-Terphenyl	41.0	50.0	82	70-135	

Lab Batch #: 726495 **Sample:** 511212-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.1	100	80	70-135	
o-Terphenyl	41.8	50.0	84	70-135	

Lab Batch #: 726495 **Sample:** 511212-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.4	100	80	70-135	
o-Terphenyl	37.0	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 306428 **Project ID:** 2004-00061

Lab Batch #: 726416 **Sample:** 726416-1-BKS **Matrix:** Solid

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	11.3	113	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306428 **Project ID:** 2004-00061

Analyst: ASA **Date Prepared:** 06/24/2008 **Date Analyzed:** 06/25/2008

Lab Batch ID: 726495 **Sample:** 511212-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	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
	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1080	108	1000	986	99	9	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1120	112	1000	1010	101	10	70-135	35	

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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306428
Lab Batch #: 726416
Date Analyzed: 06/25/2008
QC- Sample ID: 306426-001 S
Reporting Units: mg/kg

Date Prepared: 06/25/2008
Batch #: 1

Project ID: 2004-00061
Analyst: LATCOR
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	52.2	101	179	126	75-125	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

ENVIRONMENTAL LAB OF

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 306428 **Project ID:** 2004-00061

Lab Batch ID: 726495 **QC- Sample ID:** 306427-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/25/2008 **Date Prepared:** 06/24/2008 **Analyst:** ASA

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1000	937	94	1000	923	92	2	70-135	2	
C12-C28 Diesel Range Hydrocarbons	235	1000	1130	90	1000	1090	86	5	70-135	5	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 306428

Lab Batch #: 726416 **Project ID:** 2004-00061

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** LATCOR

QC- Sample ID: 306426-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	52.2	52.6	1	20	

Lab Batch #: 726278

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** IRO

QC- Sample ID: 306390-006 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	5.87	4.95	17	20	

Lab Batch #: 726285

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** IRO

QC- Sample ID: 306428-002 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	1.04	ND	NC	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley PAGE 01 OF 01 Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: 2004-00061

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) 441-2124 Fax No: (505) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: e-mail: cstanley@basinenv.com

(lab use only) ORDER #: 306428

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW – Drinking Water SL – Sludge	GW – Groundwater S – Soil/Solid	SW – Surface Water O – Oil	NP – Non-Potable Specify Other	Analyze For: TCLP: TOTAL:	TPH: 418.1 / 8015M	TPH: TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or UTEX 8260	RCI	H2S/R.M.	CHLORIDES EPA 300.1		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
-001	CELL C TZ G 1			6/20/2008	940		1	X								SOIL					X							X						X
-002	CELL C TZ G 2			6/20/2008	950		1	X								SOIL					X							X						X
-003	CELL C TZ G 3			6/20/2008	1000		1	X								SOIL					X							X						X
-004	CELL C TZ G 4			6/20/2008	1010		1	X								SOIL					X							X						X
-005	CELL C TZ G 5			6/20/2008	1020		1	X								SOIL					X							X						X

Special Instructions:

	Date	Time		Date	Time
Relinquished by:	6/23/08	1706	Received by:		
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Lam	6/23/08	17:00

Laboratory Comments:

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

Labels on container(s) Y N

Custody seals on container(s) Y N

Custody seals on cooler(s) Y N

Sample Hand Delivered by Sampler/Client Rep.? Y N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 4.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 06-23-08 @ 1706

Lab ID # : 306428

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.0 °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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 306429

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lea Station Land Farm

2004-00061

27-JUN-08

ENVIRONMENTAL LAB OF

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

27-JUN-08

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **306429**
Lea Station Land Farm
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 306429. 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. 306429 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

Sample Cross Reference 306429

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell D TZ G 1	S	Jun-20-08 10:30		306429-001
Cell D TZ G 2	S	Jun-20-08 10:40		306429-002
Cell D TZ G 3	S	Jun-20-08 10:50		306429-003
Cell D TZ G 4	S	Jun-20-08 11:00		306429-004
Cell D TZ G 5	S	Jun-20-08 11:10		306429-005

Certificate of Analysis Summary 306429

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: 2004-00061
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Mon Jun-23-08 05:42 pm
Report Date: 27-JUN-08
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	306429-001		306429-002		306429-003		306429-004		306429-005	
	Field Id:	Cell D TZ G 1		Cell D TZ G 2		Cell D TZ G 3		Cell D TZ G 4		Cell D TZ G 5	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-20-08 10:30		Jun-20-08 10:40		Jun-20-08 10:50		Jun-20-08 11:00		Jun-20-08 11:10	
Inorganic Anions by EPA 300	*Extracted:*										
	Analyzed:	Jun-25-08 20:58		Jun-25-08 20:58		Jun-25-08 20:58		Jun-25-08 20:58		Jun-25-08 20:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		15.9	5.04	36.2	5.03	103	5.03	106	5.04	61.1	5.03
Percent Moisture	*Extracted:*										
	Analyzed:	Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.00
TPH by SW8015 Mod	*Extracted:*	Jun-24-08 17:30		Jun-24-08 17:30		Jun-24-08 17:30		Jun-24-08 17:30		Jun-24-08 17:30	
	Analyzed:	Jun-25-08 16:59		Jun-25-08 17:25		Jun-25-08 17:52		Jun-25-08 18:18		Jun-25-08 18:44	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.1	20.3	15.1	ND	15.1	ND	15.1	ND	15.1
C12-C28 Diesel Range Hydrocarbons		2460	15.1	2940	15.1	2970	15.1	1990	15.1	2080	15.1
C28-C35 Oil Range Hydrocarbons		659	15.1	730	15.1	763	15.1	640	15.1	565	15.1
Total TPH		3119		3690.3		3733		2630		2645	

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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(PQL) and above the SQL(MDL).

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

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306429 **Project ID:** 2004-00061

Lab Batch #: 726495 **Sample:** 306427-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.8	100	76	70-135	
o-Terphenyl	33.4	50.0	67	70-135	**

Lab Batch #: 726495 **Sample:** 306427-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.1	100	75	70-135	
o-Terphenyl	33.3	50.0	67	70-135	**

Lab Batch #: 726495 **Sample:** 306429-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	70.1	100	70	70-135	
o-Terphenyl	36.3	50.0	73	70-135	

Lab Batch #: 726495 **Sample:** 306429-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	74.3	100	74	70-135	
o-Terphenyl	38.5	50.0	77	70-135	

Lab Batch #: 726495 **Sample:** 306429-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	66.2	100	66	70-135	**
o-Terphenyl	33.7	50.0	67	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: Lea Station Land Farm

Work Order #: 306429 **Project ID:** 2004-00061

Lab Batch #: 726495 **Sample:** 306429-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	74.3	100	74	70-135	
o-Terphenyl	38.8	50.0	78	70-135	

Lab Batch #: 726495 **Sample:** 306429-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	72.7	100	73	70-135	
o-Terphenyl	38.0	50.0	76	70-135	

Lab Batch #: 726495 **Sample:** 511212-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.1	100	88	70-135	
o-Terphenyl	41.0	50.0	82	70-135	

Lab Batch #: 726495 **Sample:** 511212-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.1	100	80	70-135	
o-Terphenyl	41.8	50.0	84	70-135	

Lab Batch #: 726495 **Sample:** 511212-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.4	100	80	70-135	
o-Terphenyl	37.0	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 306429 **Project ID:** 2004-00061

Lab Batch #: 726416 **Sample:** 726416-1-BKS **Matrix:** Solid

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	11.3	113	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306429
Analyst: ASA
Lab Batch ID: 726495
Sample: 511212-1-BKS
Units: mg/kg

Date Prepared: 06/24/2008
Batch #: 1

Project ID: 2004-00061
Date Analyzed: 06/25/2008
Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1080	108	1000	986	99	9	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1120	112	1000	1010	101	10	70-135	35	

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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306429
Lab Batch #: 726416
Date Analyzed: 06/25/2008
QC- Sample ID: 306426-001 S
Reporting Units: mg/kg

Project ID: 2004-00061
Date Prepared: 06/25/2008
Analyst: LATCOR
Batch #: 1
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	52.2	101	179	126	75-125	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

ENVIRONMENTAL LAB OF

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 306429 **Project ID:** 2004-00061

Lab Batch ID: 726495 **QC- Sample ID:** 306427-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/25/2008 **Date Prepared:** 06/24/2008 **Analyst:** ASA

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	1000	937	94	1000	923	92	2	70-135	2	
C12-C28 Diesel Range Hydrocarbons	235	1000	1130	90	1000	1090	86	5	70-135	5	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 306429

Lab Batch #: 726416 **Project ID:** 2004-00061
Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** LATCOR
QC- Sample ID: 306426-001 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	52.2	52.6	1	20	

Lab Batch #: 726285
Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** IRO
QC- Sample ID: 306428-002 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	1.04	ND	NC	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley PAGE 01 OF 01 Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: 2004-00061

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) 441-2124 Fax No: (505) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: e-mail: cstanley@basinenv.com

(lab use only) ORDER #: 306429

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: GW = Groundwater S = Soil/Sed SW = Surface Water SL = Sludge NP = Non-Potable Specify Other	Analyze For: TPH: 418.1 / 8015M	TPH: TX 1005	TPH: TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	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 300.1		RUSH TAT (Pre-Scheduled) 24, 48, 72 hrs	Standard TAT
-001	CELL D TZ G 1			6/20/2008	1030		1	X								SOIL	X													X			X
-002	CELL D TZ G 2			6/20/2008	1040		1	X								SOIL	X													X			X
-003	CELL D TZ G 3			6/20/2008	1050		1	X								SOIL	X													X			X
-004	CELL D TZ G 4			6/20/2008	1100		1	X								SOIL	X													X			X
-005	CELL D TZ G 5			6/20/2008	1110		1	X								SOIL	X													X			X

Special Instructions:

Relinquished by:	Date 6/23/08	Time 1700	Received by:		Date	Time
Relinquished by:	Date	Time	Received by:		Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Lam		Date 6.23.08	Time 1700

Laboratory Comments:

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 by Sampler/Client Rep. ?	N
by Courier? UPS DHL FedEx Lone Star	
Temperature Upon Receipt: 4.0 °C	

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 06-23-08 @ 1706

Lab ID # : 306429

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.0 °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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 306430

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lea Station Land Farm

2004-00061

27-JUN-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

27-JUN-08

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **306430**
Lea Station Land Farm
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 306430. 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. 306430 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

Sample Cross Reference 306430

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell E TZ G 1	S	Jun-20-08 11:00		306430-001
Cell E TZ G 2	S	Jun-20-08 11:30		306430-002
Cell E TZ G 3	S	Jun-20-08 11:40		306430-003
Cell E TZ G 4	S	Jun-20-08 11:50		306430-004

Certificate of Analysis Summary 306430

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: 2004-00061
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Mon Jun-23-08 05:42 pm
Report Date: 27-JUN-08
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	306430-001		306430-002		306430-003		306430-004					
	Field Id:	Cell E TZ G 1		Cell E TZ G 2		Cell E TZ G 3		Cell E TZ G 4					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Jun-20-08 11:00		Jun-20-08 11:30		Jun-20-08 11:40		Jun-20-08 11:50					
Inorganic Anions by EPA 300	*Extracted:*												
	Analyzed:	Jun-26-08 06:26		Jun-26-08 06:26		Jun-26-08 06:26		Jun-26-08 06:26					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		ND	5.04	ND	5.04	ND	5.02	ND	5.02				
Percent Moisture	*Extracted:*												
	Analyzed:	Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10					
	Units/RL:	%	RL	%	RL	%	RL	%	RL				
Percent Moisture		ND	1.00	ND	1.00	ND	1.00	ND	1.00				
TPH by SW8015 Mod	*Extracted:*	Jun-25-08 10:00		Jun-25-08 10:00		Jun-25-08 10:00		Jun-25-08 10:00					
	Analyzed:	Jun-25-08 23:37		Jun-26-08 00:04		Jun-26-08 00:30		Jun-26-08 00:57					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	15.1	ND	15.1	ND	15.1	ND	15.1				
C12-C28 Diesel Range Hydrocarbons		718	15.1	1140	15.1	422	15.1	116	15.1				
C28-C35 Oil Range Hydrocarbons		371	15.1	521	15.1	217	15.1	72.6	15.1				
Total TPH		1089		1661		639		188.6					

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

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(PQL) and above the SQL(MDL).

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

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306430 **Project ID:** 2004-00061

Lab Batch #: 726461 **Sample:** 306430-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	70.4	100	70	70-135	
o-Terphenyl	36.5	50.0	73	70-135	

Lab Batch #: 726461 **Sample:** 306430-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.0	100	75	70-135	
o-Terphenyl	38.3	50.0	77	70-135	

Lab Batch #: 726461 **Sample:** 306430-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.0	100	73	70-135	
o-Terphenyl	36.8	50.0	74	70-135	

Lab Batch #: 726461 **Sample:** 306430-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	68.9	100	69	70-135	**
o-Terphenyl	34.7	50.0	69	70-135	**

Lab Batch #: 726461 **Sample:** 306432-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.2	100	85	70-135	
o-Terphenyl	40.1	50.0	80	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: Lea Station Land Farm

Work Order #: 306430 **Project ID:** 2004-00061

Lab Batch #: 726461 **Sample:** 306432-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.7	100	86	70-135	
o-Terphenyl	40.2	50.0	80	70-135	

Lab Batch #: 726461 **Sample:** 511196-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.8	100	82	70-135	
o-Terphenyl	38.8	50.0	78	70-135	

Lab Batch #: 726461 **Sample:** 511196-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.8	100	80	70-135	
o-Terphenyl	42.4	50.0	85	70-135	

Lab Batch #: 726461 **Sample:** 511196-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.0	100	81	70-135	
o-Terphenyl	38.3	50.0	77	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 306430 **Project ID:** 2004-00061

Lab Batch #: 726538 **Sample:** 726538-1-BKS **Matrix:** Solid

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	11.7	117	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306430
Analyst: ASA
Lab Batch ID: 726461
Sample: 511196-1-BKS
Batch #: 1
Units: mg/kg

Project ID: 2004-00061
Date Prepared: 06/25/2008
Date Analyzed: 06/25/2008
Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	898	90	1000	890	89	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	888	89	1000	882	88	1	70-135	35	

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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306430
Lab Batch #: 726538
Project ID: 2004-00061
Date Analyzed: 06/26/2008
Date Prepared: 06/26/2008
Analyst: LATCOR
QC- Sample ID: 306430-001 S
Batch #: 1
Matrix: Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	101	122	121	75-125	F

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 306430 **Project ID:** 2004-00061

Lab Batch ID: 726461 **QC- Sample ID:** 306432-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/26/2008 **Date Prepared:** 06/25/2008 **Analyst:** ASA

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	1060	1000	94	1060	992	94	0	70-135	0	
C12-C28 Diesel Range Hydrocarbons	ND	1060	1010	95	1060	1000	94	1	70-135	1	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 306430

Lab Batch #: 726538 **Project ID:** 2004-00061

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

QC- Sample ID: 306430-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	ND	ND	20	20	

Lab Batch #: 726285

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** IRO

QC- Sample ID: 306428-002 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	1.04	ND	NC	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley 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]

Fax No: (505) 396-1429

e-mail: cstanley@basinenv.com

Project Name: LEA STATION LAND FARM

Project #: SRS: 2004-00061

Project Loc: Lea County, NM

PO #: PAA - C. J. Reynolds

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 306430

Analyze For: TCLP: / TOTAL: (X marked at BTEX)

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (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, SO4, Alkalinity)	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 300.1			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
-001	CELL E TZ G 1			6/20/2008	1120		1	X								SOIL	X											X				X
-002	CELL E TZ G 2			6/20/2008	1130		1	X								SOIL	X											X				X
-003	CELL E TZ G 3			6/20/2008	1140		1	X								SOIL	X											X				X
-004	CELL E TZ G 4			6/20/2008	1150		1	X								SOIL	X											X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6/23/08	1706			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: [signature]	6-23-08	17:06

Laboratory Comments:
Sample Containers Intact? (Y) N
VOCs Free of Headspace? (Y) N
Labels on container(s) (Y) N
Custody seals on container(s) (Y) N
Custody seals on cooler(s) Y (N)
Sample Hand Delivered (Y) N
by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 4.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 06-23-08 @ 1706

Lab ID #: 306430

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.0 °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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 306431

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lea Station Land Farm

2004-00061

27-JUN-08

ENVIRONMENTAL LAB OF

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

27-JUN-08

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **306431**
Lea Station Land Farm
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 306431. 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. 306431 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

Sample Cross Reference 306431

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell F TZ G 1	S	Jun-20-08 12:00		306431-001
Cell F TZ G 2	S	Jun-20-08 12:10		306431-002

Certificate of Analysis Summary 306431

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: 2004-00061
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Mon Jun-23-08 05:42 pm
Report Date: 27-JUN-08
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	306431-001				306431-002							
	Field Id:	Cell F TZ G 1				Cell F TZ G 2							
	Depth:												
	Matrix:	SOIL				SOIL							
	Sampled:	Jun-20-08 12:00				Jun-20-08 12:10							
Inorganic Anions by EPA 300	***Extracted:***												
	Analyzed:	Jun-26-08 06:26				Jun-26-08 06:26							
	Units/RL:	mg/kg	RL			mg/kg	RL						
Chloride		26.1	5.03			5.90	5.03						
Percent Moisture	***Extracted:***												
	Analyzed:	Jun-25-08 08:10				Jun-25-08 08:10							
	Units/RL:	%	RL			%	RL						
Percent Moisture		ND	1.00			ND	1.00						
TPH by SW8015 Mod	***Extracted:***	Jun-25-08 10:00				Jun-25-08 10:00							
	Analyzed:	Jun-26-08 01:23				Jun-26-08 01:50							
	Units/RL:	mg/kg	RL			mg/kg	RL						
C6-C12 Gasoline Range Hydrocarbons		36.5	15.1			39.1	15.1						
C12-C28 Diesel Range Hydrocarbons		1840	15.1			1730	15.1						
C28-C35 Oil Range Hydrocarbons		402	15.1			350	15.1						
Total TPH		2278.5				2119.1							

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

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(PQL) and above the SQL(MDL).

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

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306431 **Project ID:** 2004-00061

Lab Batch #: 726461 **Sample:** 306431-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	61.6	100	62	70-135	**
o-Terphenyl	31.7	50.0	63	70-135	**

Lab Batch #: 726461 **Sample:** 306431-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	71.7	100	72	70-135	
o-Terphenyl	36.5	50.0	73	70-135	

Lab Batch #: 726461 **Sample:** 306432-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.2	100	85	70-135	
o-Terphenyl	40.1	50.0	80	70-135	

Lab Batch #: 726461 **Sample:** 306432-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.7	100	86	70-135	
o-Terphenyl	40.2	50.0	80	70-135	

Lab Batch #: 726461 **Sample:** 511196-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.8	100	82	70-135	
o-Terphenyl	38.8	50.0	78	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: Lea Station Land Farm

Work Order #: 306431 **Project ID:** 2004-00061

Lab Batch #: 726461 **Sample:** 511196-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.8	100	80	70-135	
o-Terphenyl	42.4	50.0	85	70-135	

Lab Batch #: 726461 **Sample:** 511196-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.0	100	81	70-135	
o-Terphenyl	38.3	50.0	77	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 306431 **Project ID:** 2004-00061

Lab Batch #: 726538 **Sample:** 726538-1-BKS **Matrix:** Solid

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	11.7	117	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306431 **Project ID:** 2004-00061

Analyst: ASA **Date Prepared:** 06/25/2008 **Date Analyzed:** 06/25/2008

Lab Batch ID: 726461 **Sample:** 511196-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	898	90	1000	890	89	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	888	89	1000	882	88	1	70-135	35	

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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306431
Lab Batch #: 726538
Date Analyzed: 06/26/2008
QC- Sample ID: 306430-001 S
Reporting Units: mg/kg

Project ID: 2004-00061
Date Prepared: 06/26/2008
Analyst: LATCOR
Batch #: 1
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	101	122	121	75-125	F

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 306431 **Project ID:** 2004-00061

Lab Batch ID: 726461 **QC- Sample ID:** 306432-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/26/2008 **Date Prepared:** 06/25/2008 **Analyst:** ASA

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1060	1000	94	1060	992	94	0	70-135	0	
C12-C28 Diesel Range Hydrocarbons	ND	1060	1010	95	1060	1000	94	1	70-135	1	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 306431

Lab Batch #: 726538 **Project ID:** 2004-00061

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

QC- Sample ID: 306430-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	ND	ND	20	20	

Lab Batch #: 726285

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** IRO

QC- Sample ID: 306428-002 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	1.04	ND	NC	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley PAGE 01 OF 01 Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: 2004-00061

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) 441-2124 Fax No: (505) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: e-mail: cstanley@basinenv.com

(lab use only) ORDER #: 30643

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW - Drinking Water SL - Sludge GW - Groundwater S - Soil/Solid NP - Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 / 8015M / 8015B TX 1005 TPH: TX 1005	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or GC/EX 8260	RCI	N.O.R.M.	CHLORIDES EPA 300.1		RUSH TAT (Pre-Scheduled) 24, 48, 72 hrs	Standard TAT
-001	CELL F TZ G 1			6/20/2008	1200		1	X								SOIL	X							X				X			X
-002	CELL F TZ G 2			6/20/2008	1210		1	X								SOIL	X							X				X			X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	6/23/08	1706			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Lan	Date 6.23.08	Time 17:00

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? N N
Labels on container(s) Y N
Custody seals on container(s) N N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 4.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 06-23-08 @ 1706

Lab ID # : 306431

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.0 °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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 306432

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lea Station Land Farm

2004-00061

27-JUN-08

ENVIRONMENTAL LAB OF

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

27-JUN-08

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **306432**
Lea Station Land Farm
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 306432. 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. 306432 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

Sample Cross Reference 306432

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell A VZ G 1 (3'-4')	S	Jun-20-08 12:20	3 - 4 ft	306432-001
Cell A VZ G 2 (3'-4')	S	Jun-20-08 12:30	3 - 4 ft	306432-002
Cell A VZ G 3 (3'-4')	S	Jun-20-08 12:40	3 - 4 ft	306432-003
Cell A VZ G 4 (3'-4')	S	Jun-20-08 12:50	3 - 4 ft	306432-004
Cell A VZ G 5 (3'-4')	S	Jun-20-08 13:00	3 - 4 ft	306432-005

Certificate of Analysis Summary 306432

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: 2004-00061
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Mon Jun-23-08 05:53 pm
Report Date: 27-JUN-08
Project Manager: Brent Barron, II

Analysis Requested										
	Lab Id:	306432-001		306432-002		306432-003		306432-004		306432-005	
	Field Id:	Cell A VZ G 1 (3'-4')		Cell A VZ G 2 (3'-4')		Cell A VZ G 3 (3'-4')		Cell A VZ G 4 (3'-4')		Cell A VZ G 5 (3'-4')	
	Depth:	3-4 ft		3-4 ft		3-4 ft		3-4 ft		3-4 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-20-08 12:20		Jun-20-08 12:30		Jun-20-08 12:40		Jun-20-08 12:50		Jun-20-08 13:00	
BTEX by EPA 8021B	*Extracted:*	Jun-25-08 16:00		Jun-25-08 16:00		Jun-25-08 16:00		Jun-25-08 16:00		Jun-25-08 16:00	
	Analyzed:	Jun-25-08 20:30		Jun-25-08 20:54		Jun-25-08 21:17		Jun-25-08 21:41		Jun-25-08 22:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0011	ND	0.0011
Toluene		ND	0.0021	ND	0.0021	ND	0.0021	ND	0.0021	ND	0.0021
Ethylbenzene		ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0011	ND	0.0011
m,p-Xylenes		ND	0.0021	ND	0.0021	ND	0.0021	ND	0.0021	ND	0.0021
o-Xylene		ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0011	ND	0.0011
Total Xylenes		ND		ND		ND		ND		ND	
Total BTEX		ND		ND		ND		ND		ND	
Inorganic Anions by EPA 300	*Extracted:*										
	Analyzed:	Jun-26-08 06:26		Jun-26-08 06:26		Jun-26-08 06:26		Jun-26-08 06:26		Jun-26-08 06:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	5.30	ND	5.16	ND	5.15	ND	5.32	ND	5.25
Percent Moisture	*Extracted:*										
	Analyzed:	Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		5.72	1.00	3.05	1.00	2.84	1.00	6.03	1.00	4.80	1.00
TPH by SW8015 Mod	*Extracted:*	Jun-25-08 10:00		Jun-25-08 10:00		Jun-25-08 10:00		Jun-25-08 10:00		Jun-25-08 10:00	
	Analyzed:	Jun-26-08 15:56		Jun-26-08 02:43		Jun-26-08 03:10		Jun-26-08 03:36		Jun-26-08 04:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.9	ND	15.5	ND	15.4	ND	16.0	ND	15.8
C12-C28 Diesel Range Hydrocarbons		ND	15.9	ND	15.5	ND	15.4	ND	16.0	ND	15.8
C28-C35 Oil Range Hydrocarbons		ND	15.9	ND	15.5	ND	15.4	ND	16.0	ND	15.8
Total TPH		ND		ND		ND		ND		ND	

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(PQL) and above the SQL(MDL).

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

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306432 **Project ID:** 2004-00061

Lab Batch #: 726470 **Sample:** 306432-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0331	0.0300	110	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 726470 **Sample:** 306432-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0333	0.0300	111	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 726470 **Sample:** 306432-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0337	0.0300	112	80-120	
4-Bromofluorobenzene	0.0307	0.0300	102	80-120	

Lab Batch #: 726470 **Sample:** 306432-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0331	0.0300	110	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

Lab Batch #: 726470 **Sample:** 306432-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0334	0.0300	111	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	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: Lea Station Land Farm

Work Order #: 306432 **Project ID:** 2004-00061

Lab Batch #: 726470 **Sample:** 306434-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0393	0.0300	131	80-120	**

Lab Batch #: 726470 **Sample:** 306434-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0396	0.0300	132	80-120	**

Lab Batch #: 726470 **Sample:** 511203-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 726470 **Sample:** 511203-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0342	0.0300	114	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

Lab Batch #: 726470 **Sample:** 511203-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0324	0.0300	108	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: Lea Station Land Farm

Work Order #: 306432 **Project ID:** 2004-00061

Lab Batch #: 726461 **Sample:** 306432-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76.7	100	77	70-135	
o-Terphenyl	39.9	50.0	80	70-135	

Lab Batch #: 726461 **Sample:** 306432-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.2	100	85	70-135	
o-Terphenyl	40.1	50.0	80	70-135	

Lab Batch #: 726461 **Sample:** 306432-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.7	100	86	70-135	
o-Terphenyl	40.2	50.0	80	70-135	

Lab Batch #: 726461 **Sample:** 306432-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.3	100	73	70-135	
o-Terphenyl	38.6	50.0	77	70-135	

Lab Batch #: 726461 **Sample:** 306432-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	72.1	100	72	70-135	
o-Terphenyl	38.4	50.0	77	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: Lea Station Land Farm

Work Order #: 306432 **Project ID:** 2004-00061

Lab Batch #: 726461 **Sample:** 306432-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.0	100	73	70-135	
o-Terphenyl	38.5	50.0	77	70-135	

Lab Batch #: 726461 **Sample:** 306432-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.2	100	75	70-135	
o-Terphenyl	39.9	50.0	80	70-135	

Lab Batch #: 726461 **Sample:** 511196-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.8	100	82	70-135	
o-Terphenyl	38.8	50.0	78	70-135	

Lab Batch #: 726461 **Sample:** 511196-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.8	100	80	70-135	
o-Terphenyl	42.4	50.0	85	70-135	

Lab Batch #: 726461 **Sample:** 511196-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.0	100	81	70-135	
o-Terphenyl	38.3	50.0	77	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 306432 **Project ID:** 2004-00061

Lab Batch #: 726538 **Sample:** 726538-1-BKS **Matrix:** Solid

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

Inorganic Anions by EPA 300 Analytes	Blank Result [A]	BLANK /BLANK SPIKE RECOVERY STUDY Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	11.7	117	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306432 **Project ID:** 2004-00061

Analyst: BRB **Date Prepared:** 06/25/2008 **Date Analyzed:** 06/25/2008

Lab Batch ID: 726470 **Sample:** 511203-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	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	0.0941	94	0.1	0.1093	109	15	70-130	35	
Toluene	ND	0.1000	0.0906	91	0.1	0.1058	106	15	70-130	35	
Ethylbenzene	ND	0.1000	0.1002	100	0.1	0.1173	117	16	71-129	35	
m,p-Xylenes	ND	0.2000	0.2034	102	0.2	0.2381	119	16	70-135	35	
o-Xylene	ND	0.1000	0.0985	99	0.1	0.1154	115	16	71-133	35	

Analyst: ASA **Date Prepared:** 06/25/2008 **Date Analyzed:** 06/25/2008

Lab Batch ID: 726461 **Sample:** 511196-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	898	90	1000	890	89	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	888	89	1000	882	88	1	70-135	35	

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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306432
Lab Batch #: 726538
Date Analyzed: 06/26/2008
QC- Sample ID: 306430-001 S
Reporting Units: mg/kg

Project ID: 2004-00061
Date Prepared: 06/26/2008
Analyst: LATCOR
Batch #: 1
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	101	122	121	75-125	F

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 306432 **Project ID:** 2004-00061

Lab Batch ID: 726470 **QC- Sample ID:** 306434-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/26/2008 **Date Prepared:** 06/25/2008 **Analyst:** BRB

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	0.1092	0.1041	95	0.1092	0.1081	99	4	70-130	0	
Toluene	ND	0.1092	0.0989	91	0.1092	0.1032	95	4	70-130	0	
Ethylbenzene	ND	0.1092	0.1060	97	0.1092	0.1112	102	5	71-129	0	
m,p-Xylenes	ND	0.2184	0.2156	99	0.2184	0.2264	104	5	70-135	0	
o-Xylene	ND	0.1092	0.1050	96	0.1092	0.1115	102	6	71-133	0	

Lab Batch ID: 726461 **QC- Sample ID:** 306432-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/26/2008 **Date Prepared:** 06/25/2008 **Analyst:** ASA

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1060	1000	94	1060	992	94	0	70-135	0	
C12-C28 Diesel Range Hydrocarbons	ND	1060	1010	95	1060	1000	94	1	70-135	1	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 306432

Lab Batch #: 726538 **Project ID:** 2004-00061

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

QC- Sample ID: 306430-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	ND	ND	20	20	

Lab Batch #: 726290

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** IRO

QC- Sample ID: 306432-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	5.72	5.68	1	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley — PAGE 01 OF 01

Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC

Project #: SRS: 2004-00061

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) 441-2124

Fax No: (505) 396-1429

Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: [signature]

e-mail: cstanley@basinenv.com

(lab use only)
ORDER #: 306432

Analyze For: TCLP: / TOTAL: X

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (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, SO4, Alkalinity)	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 300.1			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
-001	CELL A VZ G 1 (3'- 4')			6/20/2008	1220		1	X								SOIL	X								X			X				X
-002	CELL A VZ G 2 (3'- 4')			6/20/2008	1230		1	X								SOIL	X								X			X				X
-003	CELL A VZ G 3 (3'- 4')			6/20/2008	1240		1	X								SOIL	X								X			X				X
-004	CELL A VZ G 4 (3'- 4')			6/20/2008	1250		1	X								SOIL	X								X			X				X
-005	CELL A VZ G 5 (3'- 4')			6/20/2008	1300		1	X								SOIL	X								X			X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6/23/08	1706			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			[signature]	6-23-08	17:06

Laboratory Comments:
Sample Containers Intact? (Y) N
VOCs Free of Headspace? (Y) N
Labels on container(s) (Y) N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y (N)
Sample Hand Delivered (Y) N
by Sampler/Client Rep.? (Y) N
by Courier? UPS DHL FedEx Lone Star
4lo29l453
Temperature Upon Receipt: 4.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 06-23-08 @ 1700

Lab ID # : 306432

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.0 °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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 306433

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lea Station Land Farm

2004-00061

30-JUN-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

30-JUN-08

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **306433**
Lea Station Land Farm
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 306433. 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. 306433 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

Sample Cross Reference 306433

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell B VZ G 1 (3'-4')	S	Jun-20-08 13:10	3 - 4 ft	306433-001
Cell B VZ G 2 (3'-4')	S	Jun-20-08 13:20	3 - 4 ft	306433-002
Cell B VZ G 3 (3'-4')	S	Jun-20-08 13:30	3 - 4 ft	306433-003
Cell B VZ G 4 (3'-4')	S	Jun-20-08 13:40	3 - 4 ft	306433-004
Cell B VZ G 5 (3'-4')	S	Jun-20-08 13:50	3 - 4 ft	306433-005

Certificate of Analysis Summary 306433

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: 2004-00061
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Mon Jun-23-08 05:57 pm
Report Date: 30-JUN-08
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	306433-001		306433-002		306433-003		306433-004		306433-005	
	Field Id:	Cell B VZ G 1 (3'-4')		Cell B VZ G 2 (3'-4')		Cell B VZ G 3 (3'-4')		Cell B VZ G 4 (3'-4')		Cell B VZ G 5 (3'-4')	
	Depth:	3-4 ft		3-4 ft		3-4 ft		3-4 ft		3-4 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-20-08 13:10		Jun-20-08 13:20		Jun-20-08 13:30		Jun-20-08 13:40		Jun-20-08 13:50	
BTEX by EPA 8021B	*Extracted:*	Jun-25-08 16:00		Jun-25-08 16:00		Jun-25-08 16:00		Jun-25-08 16:00		Jun-25-08 16:00	
	Analyzed:	Jun-25-08 22:28		Jun-25-08 22:52		Jun-25-08 23:15		Jun-25-08 23:39		Jun-26-08 00:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0010	ND	0.0013	ND	0.0011	ND	0.0010	ND	0.0010
Toluene		ND	0.0020	ND	0.0026	ND	0.0021	ND	0.0021	ND	0.0020
Ethylbenzene		ND	0.0010	ND	0.0013	ND	0.0011	ND	0.0010	ND	0.0010
m,p-Xylenes		ND	0.0020	ND	0.0026	ND	0.0021	ND	0.0021	0.0032	0.0020
o-Xylene		ND	0.0010	ND	0.0013	ND	0.0011	ND	0.0010	0.0012	0.0010
Total Xylenes		ND		ND		ND		ND		0.0044	
Total BTEX		ND		ND		ND		ND		0.0044	
Inorganic Anions by EPA 300	*Extracted:*										
	Analyzed:	Jun-26-08 06:26		Jun-26-08 06:26		Jun-26-08 06:26		Jun-26-08 06:26		Jun-26-08 06:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	5.11	ND	6.44	ND	5.31	ND	5.16	ND	5.02
Percent Moisture	*Extracted:*										
	Analyzed:	Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		2.12	1.00	22.3	1.00	5.78	1.00	3.01	1.00	ND	1.00
TPH by SW8015 Mod	*Extracted:*	Jun-25-08 10:00		Jun-25-08 10:00		Jun-25-08 10:00		Jun-25-08 10:00		Jun-25-08 10:00	
	Analyzed:	Jun-26-08 04:55		Jun-26-08 05:22		Jun-26-08 05:49		Jun-26-08 06:15		Jun-26-08 06:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.3	ND	19.3	ND	15.9	ND	15.5	ND	15.0
C12-C28 Diesel Range Hydrocarbons		ND	15.3	ND	19.3	ND	15.9	ND	15.5	ND	15.0
C28-C35 Oil Range Hydrocarbons		ND	15.3	ND	19.3	ND	15.9	ND	15.5	ND	15.0
Total TPH		ND		ND		ND		ND		ND	

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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(PQL) and above the SQL(MDL).

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

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306433 **Project ID:** 2004-00061

Lab Batch #: 726470 **Sample:** 306433-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0332	0.0300	111	80-120	
4-Bromofluorobenzene	0.0298	0.0300	99	80-120	

Lab Batch #: 726470 **Sample:** 306433-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0337	0.0300	112	80-120	
4-Bromofluorobenzene	0.0298	0.0300	99	80-120	

Lab Batch #: 726470 **Sample:** 306433-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0330	0.0300	110	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 726470 **Sample:** 306433-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0333	0.0300	111	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 726470 **Sample:** 306433-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene	0.0322	0.0300	107	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: Lea Station Land Farm

Work Order #: 306433 **Project ID:** 2004-00061

Lab Batch #: 726470 **Sample:** 306434-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0393	0.0300	131	80-120	**

Lab Batch #: 726470 **Sample:** 306434-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0396	0.0300	132	80-120	**

Lab Batch #: 726470 **Sample:** 511203-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 726470 **Sample:** 511203-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0342	0.0300	114	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

Lab Batch #: 726470 **Sample:** 511203-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0324	0.0300	108	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: Lea Station Land Farm

Work Order #: 306433 **Project ID:** 2004-00061

Lab Batch #: 726461 **Sample:** 306432-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.2	100	85	70-135	
o-Terphenyl	40.1	50.0	80	70-135	

Lab Batch #: 726461 **Sample:** 306432-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.7	100	86	70-135	
o-Terphenyl	40.2	50.0	80	70-135	

Lab Batch #: 726461 **Sample:** 306433-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.7	100	74	70-135	
o-Terphenyl	37.9	50.0	76	70-135	

Lab Batch #: 726461 **Sample:** 306433-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	72.5	100	73	70-135	
o-Terphenyl	38.5	50.0	77	70-135	

Lab Batch #: 726461 **Sample:** 306433-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	70.6	100	71	70-135	
o-Terphenyl	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: Lea Station Land Farm

Work Order #: 306433 **Project ID:** 2004-00061

Lab Batch #: 726461 **Sample:** 306433-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	66.7	100	67	70-135	**
o-Terphenyl	34.3	50.0	69	70-135	**

Lab Batch #: 726461 **Sample:** 306433-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	65.5	100	66	70-135	**
o-Terphenyl	32.8	50.0	66	70-135	**

Lab Batch #: 726461 **Sample:** 511196-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.8	100	82	70-135	
o-Terphenyl	38.8	50.0	78	70-135	

Lab Batch #: 726461 **Sample:** 511196-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.8	100	80	70-135	
o-Terphenyl	42.4	50.0	85	70-135	

Lab Batch #: 726461 **Sample:** 511196-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.0	100	81	70-135	
o-Terphenyl	38.3	50.0	77	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 306433 **Project ID:** 2004-00061

Lab Batch #: 726538 **Sample:** 726538-1-BKS **Matrix:** Solid

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	11.7	117	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306433 **Project ID:** 2004-00061

Analyst: BRB **Date Prepared:** 06/25/2008 **Date Analyzed:** 06/25/2008

Lab Batch ID: 726470 **Sample:** 511203-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**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	0.0941	94	0.1	0.1093	109	15	70-130	35	
Toluene	ND	0.1000	0.0906	91	0.1	0.1058	106	15	70-130	35	
Ethylbenzene	ND	0.1000	0.1002	100	0.1	0.1173	117	16	71-129	35	
m,p-Xylenes	ND	0.2000	0.2034	102	0.2	0.2381	119	16	70-135	35	
o-Xylene	ND	0.1000	0.0985	99	0.1	0.1154	115	16	71-133	35	

Analyst: ASA **Date Prepared:** 06/25/2008 **Date Analyzed:** 06/25/2008

Lab Batch ID: 726461 **Sample:** 511196-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**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**
C6-C12 Gasoline Range Hydrocarbons	ND	1000	898	90	1000	890	89	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	888	89	1000	882	88	1	70-135	35	

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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306433
Lab Batch #: 726538
Date Analyzed: 06/26/2008
QC- Sample ID: 306430-001 S
Reporting Units: mg/kg

Project ID: 2004-00061
Date Prepared: 06/26/2008
Analyst: LATCOR
Batch #: 1
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	101	122	121	75-125	F

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 306433 **Project ID:** 2004-00061

Lab Batch ID: 726470 **QC- Sample ID:** 306434-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/26/2008 **Date Prepared:** 06/25/2008 **Analyst:** BRB

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	0.1092	0.1041	95	0.1092	0.1081	99	4	70-130	0	
Toluene	ND	0.1092	0.0989	91	0.1092	0.1032	95	4	70-130	0	
Ethylbenzene	ND	0.1092	0.1060	97	0.1092	0.1112	102	5	71-129	0	
m,p-Xylenes	ND	0.2184	0.2156	99	0.2184	0.2264	104	5	70-135	0	
o-Xylene	ND	0.1092	0.1050	96	0.1092	0.1115	102	6	71-133	0	

Lab Batch ID: 726461 **QC- Sample ID:** 306432-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/26/2008 **Date Prepared:** 06/25/2008 **Analyst:** ASA

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1060	1000	94	1060	992	94	0	70-135	0	
C12-C28 Diesel Range Hydrocarbons	ND	1060	1010	95	1060	1000	94	1	70-135	1	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 306433

Lab Batch #: 726538 **Project ID:** 2004-00061

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

QC- Sample ID: 306430-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	ND	ND	20	20	

Lab Batch #: 726290

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** IRO

QC- Sample ID: 306432-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	5.72	5.68	1	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley 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]

Fax No: (505) 396-1429

e-mail: cstanley@basinenv.com

Project Name: LEA STATION LAND FARM

Project #: SRS: 2004-00061

Project Loc: Lea County, NM

PO #: PAA - C. J. Reynolds

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 306433

Analyze For: TCLP: / TOTAL: X

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (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, SO4, Alkalinity)	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 300.1			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	CELL B VZ G 1 (3' - 4')			6/20/2008	1310		1	X								SOIL	X								X			X				X
	CELL B VZ G 2 (3' - 4')			6/20/2008	1320		1	X								SOIL	X								X			X				X
	CELL B VZ G 3 (3' - 4')			6/20/2008	1330		1	X								SOIL	X								X			X				X
	CELL B VZ G 4 (3' - 4')			6/20/2008	1340		1	X								SOIL	X								X			X				X
	CELL B VZ G 5 (3' - 4')			6/20/2008	1350		1	X								SOIL	X								X			X				X

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time
[signature]	6/23/08	1706			
			Received by ELOT: Andrea Lam	6-23-08	17:06

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 4.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 06-23-08 @ 1706

Lab ID # : 306433

Initials: AL

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	(Yes)	No	4.0 °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 Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20 VOC samples have zero headspace?	(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 306434

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lea Station Land Farm

2004-00061

27-JUN-08

ENVIRONMENTAL LAB OF

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

27-JUN-08

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **306434**
Lea Station Land Farm
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 306434. 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. 306434 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

Sample Cross Reference 306434

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell C VZ G 1 (3'-4')	S	Jun-20-08 14:00	3 - 4 ft	306434-001
Cell C VZ G 2 (3'-4')	S	Jun-20-08 14:10	3 - 4 ft	306434-002
Cell C VZ G 3 (3'-4')	S	Jun-20-08 14:20	3 - 4 ft	306434-003
Cell C VZ G 4 (3'-4')	S	Jun-20-08 14:30	3 - 4 ft	306434-004
Cell C VZ G 5 (3'-4')	S	Jun-20-08 14:40	3 - 4 ft	306434-005

Certificate of Analysis Summary 306434

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: 2004-00061
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Mon Jun-23-08 05:57 pm
Report Date: 27-JUN-08
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	306434-001		306434-002		306434-003		306434-004		306434-005	
	Field Id:	Cell C VZ G 1 (3'-4')		Cell C VZ G 2 (3'-4')		Cell C VZ G 3 (3'-4')		Cell C VZ G 4 (3'-4')		Cell C VZ G 5 (3'-4')	
	Depth:	3-4 ft		3-4 ft		3-4 ft		3-4 ft		3-4 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-20-08 14:00		Jun-20-08 14:10		Jun-20-08 14:20		Jun-20-08 14:30		Jun-20-08 14:40	
BTEX by EPA 8021B	*Extracted:*	Jun-25-08 16:00		Jun-25-08 16:00		Jun-25-08 16:00		Jun-25-08 16:00		Jun-25-08 16:00	
	Analyzed:	Jun-26-08 00:50		Jun-26-08 01:14		Jun-26-08 01:38		Jun-26-08 02:02		Jun-26-08 02:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0012	ND	0.0012	ND	0.0010	ND	0.0011
Toluene		ND	0.0022	ND	0.0023	ND	0.0024	ND	0.0021	ND	0.0022
Ethylbenzene		ND	0.0011	ND	0.0012	ND	0.0012	ND	0.0010	ND	0.0011
m,p-Xylenes		ND	0.0022	ND	0.0023	ND	0.0024	ND	0.0021	ND	0.0022
o-Xylene		ND	0.0011	ND	0.0012	ND	0.0012	ND	0.0010	ND	0.0011
Total Xylenes		ND		ND		ND		ND		ND	
Total BTEX		ND		ND		ND		ND		ND	
Inorganic Anions by EPA 300	*Extracted:*										
	Analyzed:	Jun-26-08 06:26		Jun-26-08 06:26		Jun-26-08 06:26		Jun-26-08 06:26		Jun-26-08 20:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	5.41	ND	5.80	ND	5.94	ND	5.19	ND	5.46
Percent Moisture	*Extracted:*										
	Analyzed:	Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		7.56	1.00	13.8	1.00	15.8	1.00	3.59	1.00	8.41	1.00
TPH by SW8015 Mod	*Extracted:*	Jun-25-08 10:00		Jun-25-08 10:00		Jun-25-08 10:00		Jun-25-08 10:00		Jun-25-08 10:20	
	Analyzed:	Jun-26-08 07:09		Jun-26-08 07:35		Jun-26-08 08:02		Jun-26-08 08:29		Jun-26-08 17:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.2	ND	17.4	ND	17.8	ND	15.6	ND	16.4
C12-C28 Diesel Range Hydrocarbons		ND	16.2	ND	17.4	ND	17.8	ND	15.6	ND	16.4
C28-C35 Oil Range Hydrocarbons		ND	16.2	ND	17.4	ND	17.8	ND	15.6	ND	16.4
Total TPH		ND		ND		ND		ND		ND	

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

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(PQL) and above the SQL(MDL).

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

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306434 **Project ID:** 2004-00061

Lab Batch #: 726470 **Sample:** 306434-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0337	0.0300	112	80-120	

Lab Batch #: 726470 **Sample:** 306434-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0343	0.0300	114	80-120	

Lab Batch #: 726470 **Sample:** 306434-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	80-120	
4-Bromofluorobenzene	0.0346	0.0300	115	80-120	

Lab Batch #: 726470 **Sample:** 306434-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	80-120	
4-Bromofluorobenzene	0.0343	0.0300	114	80-120	

Lab Batch #: 726470 **Sample:** 306434-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	80-120	
4-Bromofluorobenzene	0.0340	0.0300	113	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: Lea Station Land Farm

Work Order #: 306434 **Project ID:** 2004-00061

Lab Batch #: 726470 **Sample:** 306434-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0393	0.0300	131	80-120	**

Lab Batch #: 726470 **Sample:** 306434-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0396	0.0300	132	80-120	**

Lab Batch #: 726470 **Sample:** 511203-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 726470 **Sample:** 511203-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0342	0.0300	114	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

Lab Batch #: 726470 **Sample:** 511203-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0324	0.0300	108	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: Lea Station Land Farm

Work Order #: 306434 **Project ID:** 2004-00061

Lab Batch #: 726461 **Sample:** 306432-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.2	100	85	70-135	
o-Terphenyl	40.1	50.0	80	70-135	

Lab Batch #: 726461 **Sample:** 306432-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.7	100	86	70-135	
o-Terphenyl	40.2	50.0	80	70-135	

Lab Batch #: 726461 **Sample:** 306434-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.4	100	73	70-135	
o-Terphenyl	38.5	50.0	77	70-135	

Lab Batch #: 726461 **Sample:** 306434-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	69.2	100	69	70-135	**
o-Terphenyl	36.6	50.0	73	70-135	

Lab Batch #: 726461 **Sample:** 306434-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	70.5	100	71	70-135	
o-Terphenyl	37.5	50.0	75	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: Lea Station Land Farm

Work Order #: 306434 **Project ID:** 2004-00061

Lab Batch #: 726461 **Sample:** 306434-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.9	100	74	70-135	
o-Terphenyl	38.6	50.0	77	70-135	

Lab Batch #: 726461 **Sample:** 511196-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.8	100	82	70-135	
o-Terphenyl	38.8	50.0	78	70-135	

Lab Batch #: 726461 **Sample:** 511196-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.8	100	80	70-135	
o-Terphenyl	42.4	50.0	85	70-135	

Lab Batch #: 726461 **Sample:** 511196-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.0	100	81	70-135	
o-Terphenyl	38.3	50.0	77	70-135	

Lab Batch #: 726548 **Sample:** 306434-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.1	100	73	70-135	
o-Terphenyl	38.7	50.0	77	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: Lea Station Land Farm

Work Order #: 306434 **Project ID:** 2004-00061

Lab Batch #: 726548 **Sample:** 306435-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.6	100	85	70-135	
o-Terphenyl	40.5	50.0	81	70-135	

Lab Batch #: 726548 **Sample:** 306435-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.1	100	86	70-135	
o-Terphenyl	40.3	50.0	81	70-135	

Lab Batch #: 726548 **Sample:** 511227-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.4	100	93	70-135	
o-Terphenyl	44.3	50.0	89	70-135	

Lab Batch #: 726548 **Sample:** 511227-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.6	100	74	70-135	
o-Terphenyl	39.3	50.0	79	70-135	

Lab Batch #: 726548 **Sample:** 511227-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	48.4	50.0	97	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 306434 **Project ID:** 2004-00061

Lab Batch #: 726538 **Sample:** 726538-1-BKS **Matrix:** Solid

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	11.7	117	75-125	

Lab Batch #: 726542 **Sample:** 726542-1-BKS **Matrix:** Solid

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	11.6	116	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306434 **Project ID:** 2004-00061

Analyst: BRB **Date Prepared:** 06/25/2008 **Date Analyzed:** 06/25/2008

Lab Batch ID: 726470 **Sample:** 511203-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	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	0.0941	94	0.1	0.1093	109	15	70-130	35	
Toluene	ND	0.1000	0.0906	91	0.1	0.1058	106	15	70-130	35	
Ethylbenzene	ND	0.1000	0.1002	100	0.1	0.1173	117	16	71-129	35	
m,p-Xylenes	ND	0.2000	0.2034	102	0.2	0.2381	119	16	70-135	35	
o-Xylene	ND	0.1000	0.0985	99	0.1	0.1154	115	16	71-133	35	

Analyst: ASA **Date Prepared:** 06/25/2008 **Date Analyzed:** 06/25/2008

Lab Batch ID: 726461 **Sample:** 511196-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	898	90	1000	890	89	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	888	89	1000	882	88	1	70-135	35	

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

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306434
Analyst: ASA
Lab Batch ID: 726548
Sample: 511227-1-BKS
Batch #: 1
Units: mg/kg

Date Prepared: 06/25/2008
Project ID: 2004-00061
Date Analyzed: 06/26/2008
Matrix: Solid

TPH by SW8015 Mod Analytes	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
	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1030	103	1000	1110	111	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1030	103	1000	1120	112	8	70-135	35	

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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306434

Lab Batch #: 726538 **Project ID:** 2004-00061

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

QC- Sample ID: 306430-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	101	122	121	75-125	F

Lab Batch #: 726542

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

QC- Sample ID: 306434-005 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	109	123	113	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 306434 **Project ID:** 2004-00061

Lab Batch ID: 726470 **QC- Sample ID:** 306434-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/26/2008 **Date Prepared:** 06/25/2008 **Analyst:** BRB

Reporting Units: mg/kg

BTEX by EPA 8021B	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
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	0.1092	0.1041	95	0.1092	0.1081	99	4	70-130	0	
Toluene	ND	0.1092	0.0989	91	0.1092	0.1032	95	4	70-130	0	
Ethylbenzene	ND	0.1092	0.1060	97	0.1092	0.1112	102	5	71-129	0	
m,p-Xylenes	ND	0.2184	0.2156	99	0.2184	0.2264	104	5	70-135	0	
o-Xylene	ND	0.1092	0.1050	96	0.1092	0.1115	102	6	71-133	0	

Lab Batch ID: 726461 **QC- Sample ID:** 306432-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/26/2008 **Date Prepared:** 06/25/2008 **Analyst:** ASA

Reporting Units: mg/kg

TPH by SW8015 Mod	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
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	1060	1000	94	1060	992	94	0	70-135	0	
C12-C28 Diesel Range Hydrocarbons	ND	1060	1010	95	1060	1000	94	1	70-135	1	

Lab Batch ID: 726548 **QC- Sample ID:** 306435-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/27/2008 **Date Prepared:** 06/25/2008 **Analyst:** ASA

Reporting Units: mg/kg

TPH by SW8015 Mod	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
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	1150	1070	93	1150	1100	96	3	70-135	3	
C12-C28 Diesel Range Hydrocarbons	ND	1150	1090	95	1150	1110	97	2	70-135	2	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 306434

Lab Batch #: 726538 **Project ID:** 2004-00061

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

QC- Sample ID: 306430-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	ND	ND	20	20	

Lab Batch #: 726542

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

QC- Sample ID: 306434-005 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	ND	ND	20	20	

Lab Batch #: 726290

Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** IRO

QC- Sample ID: 306432-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	5.72	5.68	1	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley 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]

Fax No: (505) 396-1429

e-mail: cstanley@basinenv.com

Project Name: LEA STATION LAND FARM

Project #: SRS: 2004-00061

Project Loc: Lea County, NM

PO #: PAA - C. J. Reynolds

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 306434

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (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, SO4, Alkalinity)	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 300.1	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	CELL C VZ G 1 (3' - 4')			6/20/2008	1400		1	X								SOIL	X								X			X		X
	CELL C VZ G 2 (3' - 4')			6/20/2008	1410		1	X								SOIL	X								X			X		X
	CELL C VZ G 3 (3' - 4')			6/20/2008	1420		1	X								SOIL	X								X			X		X
	CELL C VZ G 4 (3' - 4')			6/20/2008	1430		1	X								SOIL	X								X			X		X
	CELL C VZ G 5 (3' - 4')			6/20/2008	1440		1	X								SOIL	X								X			X		X

Analyze For: TCLP: / TOTAL: X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6/23/08	1706			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Lam	6-23-08	17 06

Laboratory Comments:
Sample Containers Intact? (Y) N
VOCs Free of Headspace? (Y) N
Labels on container(s) (Y) N
Custody seals on container(s) (Y) N
Custody seals on cooler(s) Y (N)
Sample Hand Delivered (Y) N
by Sampler/Client Rep.? (Y) N
by Courier? UPS DHL FedEx Lone Star
4 Org lass
Temperature Upon Receipt: 4.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 06-23-08 @ 1700

Lab ID #: 306434

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.0 °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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 306435

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lea Station Land Farm

2004-00061

27-JUN-08

ENVIRONMENTAL LAB OF

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

27-JUN-08

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **306435**
Lea Station Land Farm
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 306435. 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. 306435 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

Sample Cross Reference 306435

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell D VZ G 1 (3'-4')	S	Jun-20-08 14:50	3 - 4 ft	306435-001
Cell D VZ G 2 (3'-4')	S	Jun-20-08 15:00	3 - 4 ft	306435-002
Cell D VZ G 3 (3'-4')	S	Jun-20-08 15:10	3 - 4 ft	306435-003
Cell D VZ G 4 (3'-4')	S	Jun-20-08 15:20	3 - 4 ft	306435-004
Cell D VZ G 5 (3'-4')	S	Jun-20-08 15:30	3 - 4 ft	306435-005

ENVIRONMENTAL LAB OF

Certificate of Analysis Summary 306435

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: 2004-00061
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Mon Jun-23-08 05:57 pm
Report Date: 27-JUN-08
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	306435-001		306435-002		306435-003		306435-004		306435-005	
	Field Id:	Cell D VZ G 1 (3'-4')		Cell D VZ G 2 (3'-4')		Cell D VZ G 3 (3'-4')		Cell D VZ G 4 (3'-4')		Cell D VZ G 5 (3'-4')	
	Depth:	3-4 ft		3-4 ft		3-4 ft		3-4 ft		3-4 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-20-08 14:50		Jun-20-08 15:00		Jun-20-08 15:10		Jun-20-08 15:20		Jun-20-08 15:30	
BTEX by EPA 8021B	*Extracted:*	Jun-25-08 16:00		Jun-25-08 16:00		Jun-25-08 16:00		Jun-25-08 16:00		Jun-25-08 16:00	
	Analyzed:	Jun-26-08 02:49		Jun-26-08 03:13		Jun-26-08 03:37		Jun-26-08 04:01		Jun-26-08 04:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0011	ND	0.0010	ND	0.0011	ND	0.0011
Toluene		ND	0.0023	ND	0.0023	ND	0.0021	ND	0.0023	ND	0.0022
Ethylbenzene		ND	0.0011	ND	0.0011	ND	0.0010	ND	0.0011	ND	0.0011
m,p-Xylenes		ND	0.0023	ND	0.0023	ND	0.0021	ND	0.0023	ND	0.0022
o-Xylene		ND	0.0011	ND	0.0011	ND	0.0010	ND	0.0011	ND	0.0011
Total Xylenes		ND		ND		ND		ND		ND	
Total BTEX		ND		ND		ND		ND		ND	
Inorganic Anions by EPA 300	*Extracted:*										
	Analyzed:	Jun-26-08 20:28		Jun-26-08 20:28		Jun-26-08 20:28		Jun-26-08 20:28		Jun-26-08 20:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	5.73	ND	5.68	ND	5.15	ND	5.63	ND	5.58
Percent Moisture	*Extracted:*										
	Analyzed:	Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:10		Jun-25-08 08:20		Jun-25-08 08:20	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		12.8	1.00	12.0	1.00	2.89	1.00	11.1	1.00	10.4	1.00
TPH by SW8015 Mod	*Extracted:*	Jun-25-08 10:20		Jun-25-08 10:20		Jun-25-08 10:20		Jun-25-08 10:20		Jun-25-08 10:20	
	Analyzed:	Jun-26-08 18:09		Jun-26-08 18:35		Jun-26-08 19:02		Jun-26-08 19:28		Jun-27-08 09:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	17.2	ND	17.0	ND	15.4	ND	16.9	ND	16.7
C12-C28 Diesel Range Hydrocarbons		ND	17.2	ND	17.0	ND	15.4	ND	16.9	ND	16.7
C28-C35 Oil Range Hydrocarbons		ND	17.2	ND	17.0	ND	15.4	ND	16.9	ND	16.7
Total TPH		ND		ND		ND		ND		ND	

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

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(PQL) and above the SQL(MDL).

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

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306435 **Project ID:** 2004-00061

Lab Batch #: 726470 **Sample:** 306434-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0393	0.0300	131	80-120	**

Lab Batch #: 726470 **Sample:** 306434-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0396	0.0300	132	80-120	**

Lab Batch #: 726470 **Sample:** 306435-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0353	0.0300	118	80-120	

Lab Batch #: 726470 **Sample:** 306435-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	80-120	
4-Bromofluorobenzene	0.0343	0.0300	114	80-120	

Lab Batch #: 726470 **Sample:** 306435-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	80-120	
4-Bromofluorobenzene	0.0356	0.0300	119	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: Lea Station Land Farm

Work Order #: 306435 **Project ID:** 2004-00061

Lab Batch #: 726470 **Sample:** 306435-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0362	0.0300	121	80-120	**

Lab Batch #: 726470 **Sample:** 306435-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	80-120	
4-Bromofluorobenzene	0.0354	0.0300	118	80-120	

Lab Batch #: 726470 **Sample:** 511203-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 726470 **Sample:** 511203-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0342	0.0300	114	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

Lab Batch #: 726470 **Sample:** 511203-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0324	0.0300	108	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: Lea Station Land Farm

Work Order #: 306435 **Project ID:** 2004-00061

Lab Batch #: 726548 **Sample:** 306435-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	72.7	100	73	70-135	
o-Terphenyl	38.6	50.0	77	70-135	

Lab Batch #: 726548 **Sample:** 306435-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.6	100	85	70-135	
o-Terphenyl	40.5	50.0	81	70-135	

Lab Batch #: 726548 **Sample:** 306435-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.1	100	86	70-135	
o-Terphenyl	40.3	50.0	81	70-135	

Lab Batch #: 726548 **Sample:** 306435-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	72.5	100	73	70-135	
o-Terphenyl	38.9	50.0	78	70-135	

Lab Batch #: 726548 **Sample:** 306435-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	72.4	100	72	70-135	
o-Terphenyl	37.6	50.0	75	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: Lea Station Land Farm

Work Order #: 306435 **Project ID:** 2004-00061

Lab Batch #: 726548 **Sample:** 306435-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.9	100	74	70-135	
o-Terphenyl	39.4	50.0	79	70-135	

Lab Batch #: 726548 **Sample:** 306435-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.3	100	75	70-135	
o-Terphenyl	39.8	50.0	80	70-135	

Lab Batch #: 726548 **Sample:** 511227-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.4	100	93	70-135	
o-Terphenyl	44.3	50.0	89	70-135	

Lab Batch #: 726548 **Sample:** 511227-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.6	100	74	70-135	
o-Terphenyl	39.3	50.0	79	70-135	

Lab Batch #: 726548 **Sample:** 511227-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	48.4	50.0	97	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 306435 **Project ID:** 2004-00061

Lab Batch #: 726542 **Sample:** 726542-1-BKS **Matrix:** Solid

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

Inorganic Anions by EPA 300	BLANK /BLANK SPIKE RECOVERY STUDY					
Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	11.6	116	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306435 **Project ID:** 2004-00061

Analyst: BRB **Date Prepared:** 06/25/2008 **Date Analyzed:** 06/25/2008

Lab Batch ID: 726470 **Sample:** 511203-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	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	0.0941	94	0.1	0.1093	109	15	70-130	35	
Toluene	ND	0.1000	0.0906	91	0.1	0.1058	106	15	70-130	35	
Ethylbenzene	ND	0.1000	0.1002	100	0.1	0.1173	117	16	71-129	35	
m,p-Xylenes	ND	0.2000	0.2034	102	0.2	0.2381	119	16	70-135	35	
o-Xylene	ND	0.1000	0.0985	99	0.1	0.1154	115	16	71-133	35	

Analyst: ASA **Date Prepared:** 06/25/2008 **Date Analyzed:** 06/26/2008

Lab Batch ID: 726548 **Sample:** 511227-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1030	103	1000	1110	111	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1030	103	1000	1120	112	8	70-135	35	

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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306435
Lab Batch #: 726542
Date Analyzed: 06/26/2008
QC- Sample ID: 306434-005 S
Reporting Units: mg/kg

Project ID: 2004-00061
Date Prepared: 06/26/2008
Analyst: LATCOR
Batch #: 1
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	109	123	113	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 306435 **Project ID:** 2004-00061

Lab Batch ID: 726470 **QC- Sample ID:** 306434-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/26/2008 **Date Prepared:** 06/25/2008 **Analyst:** BRB

Reporting Units: mg/kg

BTEX by EPA 8021B	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
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	0.1092	0.1041	95	0.1092	0.1081	99	4	70-130	0	
Toluene	ND	0.1092	0.0989	91	0.1092	0.1032	95	4	70-130	0	
Ethylbenzene	ND	0.1092	0.1060	97	0.1092	0.1112	102	5	71-129	0	
m,p-Xylenes	ND	0.2184	0.2156	99	0.2184	0.2264	104	5	70-135	0	
o-Xylene	ND	0.1092	0.1050	96	0.1092	0.1115	102	6	71-133	0	

Lab Batch ID: 726548 **QC- Sample ID:** 306435-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/27/2008 **Date Prepared:** 06/25/2008 **Analyst:** ASA

Reporting Units: mg/kg

TPH by SW8015 Mod	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
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	1150	1070	93	1150	1100	96	3	70-135	3	
C12-C28 Diesel Range Hydrocarbons	ND	1150	1090	95	1150	1110	97	2	70-135	2	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 306435

Lab Batch #: 726542 **Project ID:** 2004-00061
Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR
QC- Sample ID: 306434-005 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	ND	ND	20	20	

Lab Batch #: 726290
Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** IRO
QC- Sample ID: 306432-001 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	5.72	5.68	1	20	

Lab Batch #: 726310
Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** IRO
QC- Sample ID: 306435-004 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	11.1	10.9	2	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley PAGE 01 OF 01 Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: 2004-00061

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) 441-2124 Fax No: (505) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: e-mail: cstanley@basinenv.com

(lab use only)
ORDER #: 306435

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: GW = Groundwater S = Soil/Solid SW = Surface Water SL = Sludge DW = Drinking Water NP = Non-Potable Specify Other	Analyze For: TPH: 418.1 8015M	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	HORM	CHLORIDES EPA 300.1			RUSH TAT (Pre-Scheduled) 24, 48, 72 hrs	Standard TAT
	CELL D VZ G 1 (3' - 4')			6/20/2008	1450		1	X								SOIL	X								X			X				X
	CELL D VZ G 2 (3' - 4')			6/20/2008	1500		1	X								SOIL	X								X			X				X
	CELL D VZ G 3 (3' - 4')			6/20/2008	1510		1	X								SOIL	X								X			X				X
	CELL D VZ G 4 (3' - 4')			6/20/2008	1520		1	X								SOIL	X								X			X				X
	CELL D VZ G 5 (3' - 4')			6/20/2008	1530		1	X								SOIL	X								X			X				X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	6/23/08	1700			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Cynthia Cruz	6-23-08	17:06

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 4.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 06-23-08 @ 1700

Lab ID #: 306435

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.0 °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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 306436

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lea Station Land Farm

2004-00061

30-JUN-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

30-JUN-08

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **306436**
Lea Station Land Farm
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 306436. 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. 306436 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

Sample Cross Reference 306436

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell E VZ G 1 (3'-4')	S	Jun-20-08 15:40	3 - 4 ft	306436-001
Cell E VZ G 2 (3'-4')	S	Jun-20-08 15:50	3 - 4 ft	306436-002
Cell E VZ G 3 (3'-4')	S	Jun-20-08 16:00	3 - 4 ft	306436-003
Cell E VZ G 4 (3'-4')	S	Jun-20-08 16:10	3 - 4 ft	306436-004

Certificate of Analysis Summary 306436

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: 2004-00061
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Mon Jun-23-08 05:57 pm
Report Date: 30-JUN-08
Project Manager: Brent Barron, II

Analysis Requested									
	Lab Id:	306436-001		306436-002		306436-003		306436-004	
	Field Id:	Cell E VZ G 1 (3'-4')		Cell E VZ G 2 (3'-4')		Cell E VZ G 3 (3'-4')		Cell E VZ G 4 (3'-4')	
	Depth:	3-4 ft		3-4 ft		3-4 ft		3-4 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-20-08 15:40		Jun-20-08 15:50		Jun-20-08 16:00		Jun-20-08 16:10	
BTEX by EPA 8021B	*Extracted:*	Jun-30-08 09:00		Jun-27-08 10:43		Jun-27-08 10:43		Jun-27-08 10:43	
	Analyzed:	Jun-30-08 15:24		Jun-27-08 18:49		Jun-27-08 19:12		Jun-27-08 19:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0010	ND	0.0012	ND	0.0010
Toluene		ND	0.0022	ND	0.0021	ND	0.0024	ND	0.0021
Ethylbenzene		ND	0.0011	ND	0.0010	ND	0.0012	ND	0.0010
m,p-Xylenes		ND	0.0022	ND	0.0021	ND	0.0024	ND	0.0021
o-Xylene		ND	0.0011	ND	0.0010	ND	0.0012	ND	0.0010
Total Xylenes		ND		ND		ND		ND	
Total BTEX		ND		ND		ND		ND	
Inorganic Anions by EPA 300	*Extracted:*								
	Analyzed:	Jun-26-08 20:28		Jun-26-08 20:28		Jun-26-08 20:28		Jun-26-08 20:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	5.45	ND	5.24	ND	5.87	ND	5.24
Percent Moisture	*Extracted:*								
	Analyzed:	Jun-25-08 08:20		Jun-25-08 08:20		Jun-25-08 08:20		Jun-25-08 08:20	
	Units/RL:	%	RL	%	RL	%	RL	%	RL
Percent Moisture		8.30	1.00	4.62	1.00	14.9	1.00	4.56	1.00
TPH by SW8015 Mod	*Extracted:*	Jun-25-08 10:20		Jun-25-08 10:20		Jun-25-08 10:20		Jun-25-08 10:20	
	Analyzed:	Jun-26-08 20:21		Jun-27-08 09:41		Jun-26-08 21:14		Jun-26-08 21:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.4	ND	15.7	ND	17.6	ND	15.7
C12-C28 Diesel Range Hydrocarbons		ND	16.4	ND	15.7	ND	17.6	ND	15.7
C28-C35 Oil Range Hydrocarbons		ND	16.4	ND	15.7	ND	17.6	ND	15.7
Total TPH		ND		ND		ND		ND	

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(PQL) and above the SQL(MDL).

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

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306436 **Project ID:** 2004-00061

Lab Batch #: 726683 **Sample:** 306436-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0342	0.0300	114	80-120	
4-Bromofluorobenzene	0.0314	0.0300	105	80-120	

Lab Batch #: 726683 **Sample:** 306436-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0337	0.0300	112	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 726683 **Sample:** 306436-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

Lab Batch #: 726683 **Sample:** 511302-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0320	0.0300	107	80-120	

Lab Batch #: 726683 **Sample:** 511302-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	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: Lea Station Land Farm

Work Order #: 306436 **Project ID:** 2004-00061

Lab Batch #: 726683 **Sample:** 511302-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0319	0.0300	106	80-120	

Lab Batch #: 726752 **Sample:** 306436-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 726752 **Sample:** 511362-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0272	0.0300	91	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 726752 **Sample:** 511362-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0346	0.0300	115	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 726752 **Sample:** 511362-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0272	0.0300	91	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	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: Lea Station Land Farm

Work Order #: 306436 **Project ID:** 2004-00061

Lab Batch #: 726548 **Sample:** 306435-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.6	100	85	70-135	
o-Terphenyl	40.5	50.0	81	70-135	

Lab Batch #: 726548 **Sample:** 306435-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.1	100	86	70-135	
o-Terphenyl	40.3	50.0	81	70-135	

Lab Batch #: 726548 **Sample:** 306436-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76.6	100	77	70-135	
o-Terphenyl	40.4	50.0	81	70-135	

Lab Batch #: 726548 **Sample:** 306436-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.4	100	73	70-135	
o-Terphenyl	38.4	50.0	77	70-135	

Lab Batch #: 726548 **Sample:** 306436-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77.0	100	77	70-135	
o-Terphenyl	41.1	50.0	82	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: Lea Station Land Farm

Work Order #: 306436 **Project ID:** 2004-00061

Lab Batch #: 726548 **Sample:** 306436-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.7	100	76	70-135	
o-Terphenyl	39.9	50.0	80	70-135	

Lab Batch #: 726548 **Sample:** 511227-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.4	100	93	70-135	
o-Terphenyl	44.3	50.0	89	70-135	

Lab Batch #: 726548 **Sample:** 511227-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.6	100	74	70-135	
o-Terphenyl	39.3	50.0	79	70-135	

Lab Batch #: 726548 **Sample:** 511227-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	48.4	50.0	97	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 306436 **Project ID:** 2004-00061

Lab Batch #: 726542 **Sample:** 726542-1-BKS **Matrix:** Solid

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	11.6	116	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306436 **Project ID:** 2004-00061

Analyst: BRB **Date Prepared:** 06/27/2008 **Date Analyzed:** 06/27/2008

Lab Batch ID: 726683 **Sample:** 511302-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	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	0.1027	103	0.1	0.0858	86	18	70-130	35	
Toluene	ND	0.1000	0.0996	100	0.1	0.0812	81	20	70-130	35	
Ethylbenzene	ND	0.1000	0.1094	109	0.1	0.0875	88	22	71-129	35	
m,p-Xylenes	ND	0.2000	0.2208	110	0.2	0.1785	89	21	70-135	35	
o-Xylene	ND	0.1000	0.1073	107	0.1	0.0889	89	19	71-133	35	

Analyst: BRB **Date Prepared:** 06/30/2008 **Date Analyzed:** 06/30/2008

Lab Batch ID: 726752 **Sample:** 511362-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	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	0.1031	103	0.1	0.0996	100	3	70-130	35	
Toluene	ND	0.1000	0.1005	101	0.1	0.0972	97	3	70-130	35	
Ethylbenzene	ND	0.1000	0.1125	113	0.1	0.1078	108	4	71-129	35	
m,p-Xylenes	ND	0.2000	0.2273	114	0.2	0.2174	109	4	70-135	35	
o-Xylene	ND	0.1000	0.1107	111	0.1	0.1051	105	5	71-133	35	

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

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306436
Analyst: ASA
Lab Batch ID: 726548 **Sample:** 511227-1-BKS
Units: mg/kg

Date Prepared: 06/25/2008 **Batch #:** 1

Project ID: 2004-00061
Date Analyzed: 06/26/2008
Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1030	103	1000	1110	111	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1030	103	1000	1120	112	8	70-135	35	

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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306436
Lab Batch #: 726542
Date Analyzed: 06/26/2008
QC- Sample ID: 306434-005 S
Reporting Units: mg/kg

Project ID: 2004-00061
Date Prepared: 06/26/2008
Analyst: LATCOR
Batch #: 1
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	109	123	113	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

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Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # 306436 **Project ID:** 2004-00061

Lab Batch ID: 726548 **QC- Sample ID:** 306435-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/27/2008 **Date Prepared:** 06/25/2008 **Analyst:** ASA

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	1150	1070	93	1150	1100	96	3	70-135	3	
C12-C28 Diesel Range Hydrocarbons	ND	1150	1090	95	1150	1110	97	2	70-135	2	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 306436

Lab Batch #: 726542 **Project ID:** 2004-00061
Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR
QC- Sample ID: 306434-005 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	ND	ND	NC	20	

Lab Batch #: 726310
Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** IRO
QC- Sample ID: 306435-004 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	11.1	10.9	2	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley PAGE 01 OF 01 Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: 2004-00061

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) 441-2124 Fax No: (505) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: e-mail: cstanley@basinenv.com

(lab use only)
ORDER #: 306436

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW = Drinking Water SL = Sludge GW = Groundwater S = Soil/Solid SW = Surface Water NP = Non-Potable Specify Other	Analyze For: TPH: 418.1 / 8015M	TPH: TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX (8021B/5030 or EPA 8260)	RCI	N.O.R.M.	CHLORIDES EPA 300.1		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
-001	CELL E VZ G 1 (3' - 4')			6/20/2008	1540		1	X								SOIL	X								X			X			X
-002	CELL E VZ G 2 (3' - 4')			6/20/2008	1550		1	X								SOIL	X								X			X			X
-003	CELL E VZ G 3 (3' - 4')			6/20/2008	1600		1	X								SOIL	X								X			X			X
-004	CELL E VZ G 4 (3' - 4')			6/20/2008	1610		1	X								SOIL	X								X			X			X

Special Instructions:

	Date	Time	Received by:	Date	Time
Relinquished by:	6/23/08	1700			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Sam	6/23/08	11:00

Laboratory Comments:

Sample Containers Intact?		N
VOCs Free of Headspace?		N
Labels on bottle(s)?		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	4.0	°C
Temperature Upon Receipt:		

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 06-23-08 @ 1700

Lab ID #: 306436

Initials: AL

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	(Yes)	No	4.0 °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 Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20 VOC samples have zero headspace?	(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 306437

for

PLAINS ALL AMERICAN EH&S

Project Manager: Camille Reynolds

Lea Station Land Farm

2004-00061

30-JUN-08

ENVIRONMENTAL LAB OF

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

30-JUN-08

Project Manager: **Camille Reynolds**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **306437**
Lea Station Land Farm
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 306437. 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. 306437 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

Sample Cross Reference 306437

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell F VZ G 1 (3'-4')	S	Jun-20-08 16:20	3 - 4 ft	306437-001
Cell F VZ G 2 (3'-4')	S	Jun-20-08 16:30	3 - 4 ft	306437-002

Certificate of Analysis Summary 306437

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: 2004-00061
Contact: Camille Reynolds
Project Location: Lea County, NM

Date Received in Lab: Mon Jun-23-08 05:57 pm
Report Date: 30-JUN-08
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	306437-001				306437-002							
	Field Id:	Cell F VZ G 1 (3'-4')				Cell F VZ G 2 (3'-4')							
	Depth:	3-4 ft				3-4 ft							
	Matrix:	SOIL				SOIL							
	Sampled:	Jun-20-08 16:20				Jun-20-08 16:30							
BTEX by EPA 8021B	*Extracted:*	Jun-27-08 10:43				Jun-27-08 10:43							
	Analyzed:	Jun-27-08 20:48				Jun-27-08 21:12							
	Units/RL:	mg/kg	RL			mg/kg	RL						
Benzene		ND	0.0010			ND	0.0010						
Toluene		ND	0.0020			ND	0.0020						
Ethylbenzene		ND	0.0010			ND	0.0010						
m,p-Xylenes		ND	0.0020			ND	0.0020						
o-Xylene		ND	0.0010			ND	0.0010						
Total Xylenes		ND				ND							
Total BTEX		ND				ND							
Inorganic Anions by EPA 300	*Extracted:*												
	Analyzed:	Jun-26-08 20:28				Jun-26-08 20:28							
	Units/RL:	mg/kg	RL			mg/kg	RL						
Chloride		ND	5.08			ND	5.06						
Percent Moisture	*Extracted:*												
	Analyzed:	Jun-25-08 08:10				Jun-25-08 08:10							
	Units/RL:	%	RL			%	RL						
Percent Moisture		1.66	1.00			1.23	1.00						
TPH by SW8015 Mod	*Extracted:*	Jun-25-08 10:20				Jun-25-08 10:20							
	Analyzed:	Jun-27-08 10:07				Jun-26-08 23:00							
	Units/RL:	mg/kg	RL			mg/kg	RL						
C6-C12 Gasoline Range Hydrocarbons		ND	15.3			ND	15.2						
C12-C28 Diesel Range Hydrocarbons		ND	15.3			ND	15.2						
C28-C35 Oil Range Hydrocarbons		ND	15.3			ND	15.2						
Total TPH		ND				ND							

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(PQL) and above the SQL(MDL).

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

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306437 **Project ID:** 2004-00061

Lab Batch #: 726683 **Sample:** 306437-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0336	0.0300	112	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 726683 **Sample:** 306437-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0338	0.0300	113	80-120	
4-Bromofluorobenzene	0.0326	0.0300	109	80-120	

Lab Batch #: 726683 **Sample:** 511302-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0320	0.0300	107	80-120	

Lab Batch #: 726683 **Sample:** 511302-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 726683 **Sample:** 511302-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0319	0.0300	106	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: Lea Station Land Farm

Work Order #: 306437 **Project ID:** 2004-00061

Lab Batch #: 726548 **Sample:** 306435-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.6	100	85	70-135	
o-Terphenyl	40.5	50.0	81	70-135	

Lab Batch #: 726548 **Sample:** 306435-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.1	100	86	70-135	
o-Terphenyl	40.3	50.0	81	70-135	

Lab Batch #: 726548 **Sample:** 306437-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77.5	100	78	70-135	
o-Terphenyl	39.9	50.0	80	70-135	

Lab Batch #: 726548 **Sample:** 306437-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	71.1	100	71	70-135	
o-Terphenyl	37.8	50.0	76	70-135	

Lab Batch #: 726548 **Sample:** 511227-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.4	100	93	70-135	
o-Terphenyl	44.3	50.0	89	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: Lea Station Land Farm

Work Order #: 306437 **Project ID:** 2004-00061

Lab Batch #: 726548 **Sample:** 511227-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.6	100	74	70-135	
o-Terphenyl	39.3	50.0	79	70-135	

Lab Batch #: 726548 **Sample:** 511227-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	48.4	50.0	97	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 306437 **Project ID:** 2004-00061

Lab Batch #: 726542 **Sample:** 726542-1-BKS **Matrix:** Solid

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	11.6	116	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306437 **Project ID:** 2004-00061

Analyst: BRB **Date Prepared:** 06/27/2008 **Date Analyzed:** 06/27/2008

Lab Batch ID: 726683 **Sample:** 511302-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	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	0.1027	103	0.1	0.0858	86	18	70-130	35	
Toluene	ND	0.1000	0.0996	100	0.1	0.0812	81	20	70-130	35	
Ethylbenzene	ND	0.1000	0.1094	109	0.1	0.0875	88	22	71-129	35	
m,p-Xylenes	ND	0.2000	0.2208	110	0.2	0.1785	89	21	70-135	35	
o-Xylene	ND	0.1000	0.1073	107	0.1	0.0889	89	19	71-133	35	

Analyst: ASA **Date Prepared:** 06/25/2008 **Date Analyzed:** 06/26/2008

Lab Batch ID: 726548 **Sample:** 511227-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1030	103	1000	1110	111	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1030	103	1000	1120	112	8	70-135	35	

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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 306437

Lab Batch #: 726542

Project ID: 2004-00061

Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR

QC- Sample ID: 306434-005 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	109	123	113	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference [E] = 200*(C-A)/(C+B)

All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 306437 **Project ID:** 2004-00061

Lab Batch ID: 726548 **QC- Sample ID:** 306435-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 06/27/2008 **Date Prepared:** 06/25/2008 **Analyst:** ASA

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	1150	1070	93	1150	1100	96	3	70-135	3	
C12-C28 Diesel Range Hydrocarbons	ND	1150	1090	95	1150	1110	97	2	70-135	2	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 306437

Lab Batch #: 726542 **Project ID:** 2004-00061
Date Analyzed: 06/26/2008 **Date Prepared:** 06/26/2008 **Analyst:** LATCOR
QC- Sample ID: 306434-005 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	ND	ND	20	20	

Lab Batch #: 726290
Date Analyzed: 06/25/2008 **Date Prepared:** 06/25/2008 **Analyst:** IRO
QC- Sample ID: 306432-001 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	5.72	5.68	1	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley PAGE 01 OF 01 Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: 2004-00061

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) 441-2124 Fax No: (505) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: e-mail: cstanley@basinenv.com

(lab use only) ORDER #: 306437

Analyze For: TCLP / TOTAL

Preservation & # of Containers / Matrix

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: SW – Surface Water, S – Soil/Sed, GW – Groundwater, S – Soil/Sed, NP – Non-Potable, Specify Other	TPH: 418.1 / 8015M	TPH: TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semi-Volatiles	BTEX 8021B/5030 / BTEX 8260	RCI	HORM	CHLORIDES EPA 300.1		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
006	CELL F VZ G 1 (3' - 4')			6/20/2008	1620		1	X								SOIL	X								X			X			X
007	CELL F VZ G 2 (3' - 4')			6/20/2008	1630		1	X								SOIL	X								X			X			X

Special Instructions:

Relinquished by:	Date 6/23/08	Time 1700	Received by:		Date	Time
Relinquished by:	Date	Time	Received by:		Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Sam		Date 6-23-08	Time 17:00

Laboratory Comments:

Sample Containers Intact?	Y N
VOCs Free of Headspace?	Y N
Labels on container(s)	Y N
Custody seals on container(s)	Y N
Custody seals on cooler(s)	Y N
Sample Hand Delivered by Sampler/Client Rep.?	Y N
by Courier? UPS DHL FedEx Lone Star	
Temperature Upon Receipt: 4.0 °C	

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains

Date/ Time: 06-23-08 @ 1706

Lab ID # : 306437

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.0 °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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 318065

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Lea Station Land Farm

SRS 2004-00061

24-NOV-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B - Odessa/Midland, TX T104704400-08

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

24-NOV-08

Project Manager: **Daniel Bryant**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **318065**
Lea Station Land Farm
Project Address: Lea County, NM

Daniel 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 318065. 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. 318065 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

Sample Cross Reference 318065

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell A TZ G 1	S	Nov-13-08 08:05		318065-001
Cell A TZ G 2	S	Nov-13-08 08:10		318065-002
Cell A TZ G 3	S	Nov-13-08 08:15		318065-003
Cell A TZ G 4	S	Nov-13-08 08:20		318065-004
Cell A TZ G 5	S	Nov-13-08 08:25		318065-005

Certificate of Analysis Summary 318065

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: SRS 2004-00061
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Tue Nov-18-08 05:12 pm
Report Date: 24-NOV-08
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	318065-001		318065-002		318065-003		318065-004		318065-005	
	Field Id:	Cell A TZ G 1		Cell A TZ G 2		Cell A TZ G 3		Cell A TZ G 4		Cell A TZ G 5	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-13-08 08:05		Nov-13-08 08:10		Nov-13-08 08:15		Nov-13-08 08:20		Nov-13-08 08:25	
Inorganic Anions by EPA 300\300.1	***Extracted:***										
	Analyzed:	Nov-19-08 14:38		Nov-19-08 14:38		Nov-19-08 14:38		Nov-19-08 14:38		Nov-19-08 14:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		36.3	5.21	31.6	5.45	10.9	5.40	ND	5.24	ND	5.40
Percent Moisture	***Extracted:***										
	Analyzed:	Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		3.98	1.00	8.29	1.00	7.47	1.00	4.66	1.00	7.49	1.00
TPH by SW8015 Mod	***Extracted:***	Nov-21-08 11:00		Nov-21-08 11:00		Nov-21-08 11:00		Nov-21-08 11:00		Nov-21-08 11:00	
	Analyzed:	Nov-22-08 05:44		Nov-22-08 06:07		Nov-22-08 06:30		Nov-22-08 06:54		Nov-22-08 07:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.6	ND	16.4	ND	16.2	ND	15.7	ND	16.2
C12-C28 Diesel Range Hydrocarbons		396	15.6	144	16.4	115	16.2	193	15.7	63.4	16.2
C28-C35 Oil Range Hydrocarbons		247	15.6	69.5	16.4	66.1	16.2	133	15.7	36.9	16.2
Total TPH		643	15.6	213.5	16.4	181.1	16.2	326	15.7	100.3	16.2

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318065,

Project ID: SRS 2004-00061

Lab Batch #: 741108 **Sample:** 317893-043 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	63.4	50.0	127	70-135	

Lab Batch #: 741108 **Sample:** 317893-043 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	63.9	50.0	128	70-135	

Lab Batch #: 741108 **Sample:** 318065-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	58.4	50.0	117	70-135	

Lab Batch #: 741108 **Sample:** 318065-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	57.0	50.0	114	70-135	

Lab Batch #: 741108 **Sample:** 318065-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	100	111	70-135	
o-Terphenyl	58.0	50.0	116	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: Lea Station Land Farm

Work Orders : 318065,

Project ID: SRS 2004-00061

Lab Batch #: 741108 **Sample:** 318065-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	58.4	50.0	117	70-135	

Lab Batch #: 741108 **Sample:** 318065-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	100	110	70-135	
o-Terphenyl	56.9	50.0	114	70-135	

Lab Batch #: 741108 **Sample:** 519789-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	64.3	50.0	129	70-135	

Lab Batch #: 741108 **Sample:** 519789-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	56.8	50.0	114	70-135	

Lab Batch #: 741108 **Sample:** 519789-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	60.9	50.0	122	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 318065 **Project ID:** SRS 2004-00061

Lab Batch #: 740951 **Sample:** 740951-1-BKS **Matrix:** Solid

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300\300.1 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	9.99	100	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318065 **Project ID:** SRS 2004-00061

Analyst: BHW **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/21/2008

Lab Batch ID: 741108 **Sample:** 519789-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	867	87	1000	874	87	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	903	90	1000	915	92	1	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318065
Lab Batch #: 740951
Date Analyzed: 11/19/2008
QC- Sample ID: 318065-001 S
Reporting Units: mg/kg

Project ID: SRS 2004-00061
Date Prepared: 11/19/2008
Analyst: LATCOR
Batch #: 1
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	36.3	104	163	122	80-120	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 318065 **Project ID:** SRS 2004-00061

Lab Batch ID: 741108 **QC- Sample ID:** 317893-043 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/22/2008 **Date Prepared:** 11/21/2008 **Analyst:** BHW

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1030	872	85	1030	860	83	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1030	921	89	1030	906	88	1	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 318065

Lab Batch #: 740951 **Project ID:** SRS 2004-00061
Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR
QC- Sample ID: 318065-001 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300\300.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	36.3	36.5	1	20	

Lab Batch #: 740820
Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** BEV
QC- Sample ID: 318073-002 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	3.64	3.90	7	20	

Lab Batch #: 740824
Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** BEV
QC- Sample ID: 318065-003 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	7.47	7.32	2	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley — 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: (575) 441-2244
Sampler Signature: [signature]
Fax No: (575) 396-1429
e-mail: cstanley@basinenv.com

Project Name: LEA STATION LAND FARM
Project #: SRS: 2004-00061
Project Loc: Lea County, NM
PO #: PAA - D. M. Bryant
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 318065

Analyze For: TCLP: / TOTAL: X

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (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, SO4, Alkalinity)	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 300.1	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	CELL A TZ G 1			11/13/2008	805		1	X								SOIL	X											X		X
02	CELL A TZ G 2			11/13/2008	810		1	X								SOIL	X											X		X
03	CELL A TZ G 3			11/13/2008	815		1	X								SOIL	X											X		X
04	CELL A TZ G 4			11/13/2008	820		1	X								SOIL	X											X		X
05	CELL A TZ G 5			11/13/2008	825		1	X								SOIL	X											X		X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	11/13/08	1712			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: [signature]	11-13-08	1712

Laboratory Comments:
Sample Containers intact? (Y) N
VOCs Free of Headspace? (Y) N
Labels on container(s) (Y) N
Custody seals on container(s)/labels (Y) N
Custody seals on cooler(s) Y (N)
Sample Hand Delivered (Y) N
by Sampler/Client Rep ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 3.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains / Basin Environmental

Date/ Time: 11-18-08 @ 1712

Lab ID #: 31906

Initials: JMF

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? / label	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	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	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 318066

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Lea Station Land Farm

SRS 2004-00061

24-NOV-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B - Odessa/Midland, TX T104704400-08

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

24-NOV-08

Project Manager: **Daniel Bryant**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **318066**
Lea Station Land Farm
Project Address: Lea County, NM

Daniel 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 318066. 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. 318066 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

Sample Cross Reference 318066

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell B TZ G 1	S	Nov-13-08 08:30		318066-001
Cell B TZ G 2	S	Nov-13-08 08:35		318066-002
Cell B TZ G 3	S	Nov-13-08 08:40		318066-003
Cell B TZ G 4	S	Nov-13-08 08:45		318066-004
Cell B TZ G 5	S	Nov-13-08 08:50		318066-005

Certificate of Analysis Summary 318066

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: SRS 2004-00061
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Tue Nov-18-08 05:12 pm
Report Date: 24-NOV-08
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	318066-001		318066-002		318066-003		318066-004		318066-005	
	Field Id:	Cell B TZ G 1		Cell B TZ G 2		Cell B TZ G 3		Cell B TZ G 4		Cell B TZ G 5	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-13-08 08:30		Nov-13-08 08:35		Nov-13-08 08:40		Nov-13-08 08:45		Nov-13-08 08:50	
Inorganic Anions by EPA 300\300.1	*Extracted:*										
	Analyzed:	Nov-19-08 14:38		Nov-19-08 14:38		Nov-19-08 14:38		Nov-19-08 14:38		Nov-19-08 14:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	5.30	12.0	5.39	ND	5.38	ND	5.37	ND	5.28
Percent Moisture	*Extracted:*										
	Analyzed:	Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		5.62	1.00	7.24	1.00	7.08	1.00	6.97	1.00	5.37	1.00
TPH by SW8015 Mod	*Extracted:*	Nov-21-08 11:00		Nov-21-08 11:00		Nov-21-08 11:00		Nov-21-08 12:00		Nov-21-08 12:00	
	Analyzed:	Nov-22-08 07:40		Nov-22-08 08:04		Nov-22-08 08:27		Nov-22-08 18:04		Nov-22-08 18:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.9	ND	16.2	ND	16.1	ND	16.1	ND	15.9
C12-C28 Diesel Range Hydrocarbons		857	15.9	279	16.2	75.6	16.1	110	16.1	63.0	15.9
C28-C35 Oil Range Hydrocarbons		292	15.9	156	16.2	50.0	16.1	45.6	16.1	35.1	15.9
Total TPH		1149	15.9	435	16.2	125.6	16.1	155.6	16.1	98.1	15.9

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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318066,

Project ID: SRS 2004-00061

Lab Batch #: 741108 **Sample:** 317893-043 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	63.4	50.0	127	70-135	

Lab Batch #: 741108 **Sample:** 317893-043 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	63.9	50.0	128	70-135	

Lab Batch #: 741108 **Sample:** 318066-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	58.4	50.0	117	70-135	

Lab Batch #: 741108 **Sample:** 318066-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	100	111	70-135	
o-Terphenyl	58.6	50.0	117	70-135	

Lab Batch #: 741108 **Sample:** 318066-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	100	111	70-135	
o-Terphenyl	57.6	50.0	115	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: Lea Station Land Farm

Work Orders : 318066, **Project ID:** SRS 2004-00061

Lab Batch #: 741108 **Sample:** 519789-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	64.3	50.0	129	70-135	

Lab Batch #: 741108 **Sample:** 519789-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	56.8	50.0	114	70-135	

Lab Batch #: 741108 **Sample:** 519789-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	60.9	50.0	122	70-135	

Lab Batch #: 741114 **Sample:** 318066-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	100	111	70-135	
o-Terphenyl	57.5	50.0	115	70-135	

Lab Batch #: 741114 **Sample:** 318066-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	57.2	50.0	114	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: Lea Station Land Farm

Work Orders : 318066,

Project ID: SRS 2004-00061

Lab Batch #: 741114 **Sample:** 318066-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	61.1	50.0	122	70-135	

Lab Batch #: 741114 **Sample:** 318066-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	60.9	50.0	122	70-135	

Lab Batch #: 741114 **Sample:** 519794-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	62.4	50.0	125	70-135	

Lab Batch #: 741114 **Sample:** 519794-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	57.6	50.0	115	70-135	

Lab Batch #: 741114 **Sample:** 519794-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	62.8	50.0	126	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 318066 **Project ID:** SRS 2004-00061

Lab Batch #: 740951 **Sample:** 740951-1-BKS **Matrix:** Solid

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300\300.1 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	9.99	100	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318066 **Project ID:** SRS 2004-00061

Analyst: BHW **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/21/2008

Lab Batch ID: 741108 **Sample:** 519789-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	867	87	1000	874	87	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	903	90	1000	915	92	1	70-135	35	

Analyst: BHW **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/22/2008

Lab Batch ID: 741114 **Sample:** 519794-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	877	88	1000	860	86	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	922	92	1000	901	90	2	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318066

Lab Batch #: 740951

Project ID: SRS 2004-00061

Date Analyzed: 11/19/2008

Date Prepared: 11/19/2008

Analyst: LATCOR

QC- Sample ID: 318065-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	36.3	104	163	122	80-120	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference [E] = 200*(C-A)/(C+B)

All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 318066 **Project ID:** SRS 2004-00061

Lab Batch ID: 741108 **QC- Sample ID:** 317893-043 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/22/2008 **Date Prepared:** 11/21/2008 **Analyst:** BHW

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1030	872	85	1030	860	83	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1030	921	89	1030	906	88	1	70-135	35	

Lab Batch ID: 741114 **QC- Sample ID:** 318066-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/22/2008 **Date Prepared:** 11/21/2008 **Analyst:** BHW

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1060	902	85	1060	893	84	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	63.0	1060	988	87	1060	958	84	4	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 318066

Lab Batch #: 740951 **Project ID:** SRS 2004-00061

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR

QC- Sample ID: 318065-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300\300.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	36.3	36.5	1	20	

Lab Batch #: 740820

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** BEV

QC- Sample ID: 318073-002 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	3.64	3.90	7	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley PAGE 01 OF 01 Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: 2004-00061

Company Address: P. O. Box 301 Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 PO #: PAA - D.M. Bryant

Telephone No: (575) 441-2244 Fax No: (575) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: e-mail: cstanley@basinenv.com

(lab use only) ORDER #: 318066

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW – Drinking Water; GW – Groundwater; S – Soil/Sol; SW – Surface Water; Sl – Sludge; NP – Non-Potable Specify Other	Analyze For: 8015M	TPH: 418.1	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B or 5030 or BTEX 8260	RCI	N.O.R.M.	CHLORIDES EPA 300.1		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	CELL B TZ G 1			11/13/2008	830		1	X								SOIL	X													X			X
02	CELL B TZ G 2			11/13/2008	835		1	X								SOIL	X													X			X
03	CELL B TZ G 3			11/13/2008	840		1	X								SOIL	X													X			X
04	CELL B TZ G 4			11/13/2008	845		1	X								SOIL	X													X			X
05	CELL B TZ G 5			11/13/2008	850		1	X								SOIL	X													X			X

Special Instructions: * NO BTEX as per C.Stanley 11/17/08

Relinquished by:	Date	Time	Received by:	Date	Time
	11/13/08	1712			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				11/18/08	1712

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s) / labels	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains / Basin Environmental

Date/ Time: 11-18-08 @ 1712

Lab ID #: 31804

Initials: JMF

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? / Label	(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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 318067

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Lea Station Land Farm

SRS 2004-00061

24-NOV-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B - Odessa/Midland, TX T104704400-08

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

24-NOV-08

Project Manager: **Daniel Bryant**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **318067**
Lea Station Land Farm
Project Address: Lea County, NM

Daniel 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 318067. 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. 318067 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

Sample Cross Reference 318067

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell C TZ G 1	S	Nov-13-08 09:00		318067-001
Cell C TZ G 2	S	Nov-13-08 09:05		318067-002
Cell C TZ G 3	S	Nov-13-08 09:10		318067-003
Cell C TZ G 4	S	Nov-13-08 09:15		318067-004
Cell C TZ G 5	S	Nov-13-08 09:20		318067-005

Certificate of Analysis Summary 318067

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: SRS 2004-00061
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Tue Nov-18-08 05:12 pm
Report Date: 24-NOV-08
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	318067-001		318067-002		318067-003		318067-004		318067-005		
	Field Id:	Cell C TZ G 1		Cell C TZ G 2		Cell C TZ G 3		Cell C TZ G 4		Cell C TZ G 5		
	Depth:											
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Nov-13-08 09:00		Nov-13-08 09:05		Nov-13-08 09:10		Nov-13-08 09:15		Nov-13-08 09:20		
Inorganic Anions by EPA 300\300.1	*Extracted:*											
	Analyzed:	Nov-19-08 14:38		Nov-19-08 14:38		Nov-19-08 14:38		Nov-19-08 14:38		Nov-19-08 14:38		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		24.3	5.39	ND	10.7	ND	5.42	ND	5.31	ND	5.43	
Percent Moisture	*Extracted:*											
	Analyzed:	Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	
Percent Moisture		7.30	1.00	6.72	1.00	7.72	1.00	5.77	1.00	8.00	1.00	
TPH by SW8015 Mod	*Extracted:*	Nov-21-08 12:00		Nov-21-08 12:00		Nov-21-08 12:00		Nov-21-08 12:00		Nov-21-08 12:00		
	Analyzed:	Nov-22-08 18:50		Nov-22-08 19:13		Nov-22-08 19:37		Nov-22-08 20:00		Nov-22-08 20:24		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
C6-C12 Gasoline Range Hydrocarbons		ND	16.2	ND	16.1	ND	16.3	ND	15.9	ND	16.3	
C12-C28 Diesel Range Hydrocarbons		36.1	16.2	52.6	16.1	46.8	16.3	50.7	15.9	53.8	16.3	
C28-C35 Oil Range Hydrocarbons		ND	16.2	19.0	16.1	22.4	16.3	16.9	15.9	27.7	16.3	
Total TPH		36.1	16.2	71.6	16.1	69.2	16.3	67.6	15.9	81.5	16.3	

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318067, **Project ID:** SRS 2004-00061

Lab Batch #: 741114 **Sample:** 318066-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	61.1	50.0	122	70-135	

Lab Batch #: 741114 **Sample:** 318066-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	60.9	50.0	122	70-135	

Lab Batch #: 741114 **Sample:** 318067-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	59.3	50.0	119	70-135	

Lab Batch #: 741114 **Sample:** 318067-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	58.1	50.0	116	70-135	

Lab Batch #: 741114 **Sample:** 318067-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	58.9	50.0	118	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: Lea Station Land Farm

Work Orders : 318067,

Project ID: SRS 2004-00061

Lab Batch #: 741114 **Sample:** 318067-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	58.8	50.0	118	70-135	

Lab Batch #: 741114 **Sample:** 318067-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	59.0	50.0	118	70-135	

Lab Batch #: 741114 **Sample:** 519794-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	62.4	50.0	125	70-135	

Lab Batch #: 741114 **Sample:** 519794-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	57.6	50.0	115	70-135	

Lab Batch #: 741114 **Sample:** 519794-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	62.8	50.0	126	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 318067 **Project ID:** SRS 2004-00061

Lab Batch #: 740951 **Sample:** 740951-1-BKS **Matrix:** Solid

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300\300.1 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	9.99	100	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318067
Analyst: BHW
Lab Batch ID: 741114
Sample: 519794-1-BKS
Units: mg/kg

Date Prepared: 11/21/2008
Batch #: 1

Project ID: SRS 2004-00061
Date Analyzed: 11/22/2008
Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	877	88	1000	860	86	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	922	92	1000	901	90	2	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318067
Lab Batch #: 740951
Date Analyzed: 11/19/2008
QC- Sample ID: 318065-001 S
Reporting Units: mg/kg

Date Prepared: 11/19/2008
Batch #: 1

Project ID: SRS 2004-00061
Analyst: LATCOR
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	36.3	104	163	122	80-120	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 318067 **Project ID:** SRS 2004-00061

Lab Batch ID: 741114 **QC- Sample ID:** 318066-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/22/2008 **Date Prepared:** 11/21/2008 **Analyst:** BHW

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	1060	902	85	1060	893	84	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	63.0	1060	988	87	1060	958	84	4	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 318067

Lab Batch #: 740951 **Project ID:** SRS 2004-00061

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR

QC- Sample ID: 318065-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300\300.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	36.3	36.5	1	20	

Lab Batch #: 740809

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** BEV

QC- Sample ID: 318049-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	1.79	1.64	9	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley 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: (55) 441-2244

Fax No: (575) 396-1429

Sampler Signature: [signature]

e-mail: cstanley@basinenv.com

Project Name: LEA STATION LAND FARM

Project #: SRS: 2004-00061

Project Loc: Lea County, NM

PO #: PAA - D. M. Bryant

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 318067

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers (4oz glass)	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (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, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX (8021B/5030) or BTEX 8260 (TOTAL: X)	RCI	N.O.R.M.	CHLORIDES EPA (300.1)			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	CELL C TZ G 1			11/13/2008	900		1	X								SOIL	X											X				X
	CELL C TZ G 2			11/13/2008	905		1	X								SOIL	X											X				X
	CELL C TZ G 3			11/13/2008	910		1	X								SOIL	X											X				X
	CELL C TZ G 4			11/13/2008	915		1	X								SOIL	X											X				X
	CELL C TZ G 5			11/13/2008	920		1	X								SOIL	X											X				X

Special Instructions: * No BTEX - [illegible]

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	11/18/08	1712			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			[signature]	11-18-08	1712

Laboratory Comments:
Sample Containers Intact? (Y) N
VOCs Free of Headspace? (Y) N
Labels on container(s) (Y) N
Custody seals on container(s) / lab 15 (Y) N
Custody seals on cooler(s) Y (N)
Sample Hand Delivered (Y) N
by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 3.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains / Basin Environmental

Date/ Time: 11-18-08 @ 1712

Lab ID #: 38C67

Initials: JMF

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? / Label	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	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	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 318068

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Lea Station Land Farm

SRS 2004-00061

24-NOV-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B - Odessa/Midland, TX T104704400-08

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

24-NOV-08

Project Manager: **Daniel Bryant**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **318068**
Lea Station Land Farm
Project Address: Lea County, NM

Daniel 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 318068. 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. 318068 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

Sample Cross Reference 318068

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell D TZ G 1	S	Nov-13-08 09:25		318068-001
Cell D TZ G 2	S	Nov-13-08 09:30		318068-002
Cell D TZ G 3	S	Nov-13-08 09:35		318068-003
Cell D TZ G 4	S	Nov-13-08 09:40		318068-004
Cell D TZ G 5	S	Nov-13-08 09:45		318068-005

Certificate of Analysis Summary 318068

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: SRS 2004-00061
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Tue Nov-18-08 05:12 pm
Report Date: 24-NOV-08
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	318068-001		318068-002		318068-003		318068-004		318068-005	
	Field Id:	Cell D TZ G 1		Cell D TZ G 2		Cell D TZ G 3		Cell D TZ G 4		Cell D TZ G 5	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-13-08 09:25		Nov-13-08 09:30		Nov-13-08 09:35		Nov-13-08 09:40		Nov-13-08 09:45	
Inorganic Anions by EPA 300\300.1	*Extracted:*										
	Analyzed:	Nov-19-08 14:38		Nov-19-08 14:38		Nov-19-08 14:38		Nov-19-08 14:38		Nov-19-08 14:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		16.8	5.29	20.3	5.32	56.4	5.39	9.85	5.29	ND	5.31
Percent Moisture	*Extracted:*										
	Analyzed:	Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		5.56	1.00	6.07	1.00	7.26	1.00	5.50	1.00	5.83	1.00
TPH by SW8015 Mod	*Extracted:*	Nov-21-08 13:00		Nov-21-08 13:00		Nov-21-08 13:00		Nov-21-08 13:00		Nov-21-08 13:00	
	Analyzed:	Nov-23-08 00:42		Nov-23-08 01:06		Nov-23-08 01:29		Nov-23-08 01:53		Nov-23-08 02:16	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.9	ND	16.0	ND	16.2	ND	15.9	ND	15.9
C12-C28 Diesel Range Hydrocarbons		467	15.9	373	16.0	557	16.2	515	15.9	1510	15.9
C28-C35 Oil Range Hydrocarbons		158	15.9	134	16.0	209	16.2	206	15.9	378	15.9
Total TPH		625	15.9	507	16.0	766	16.2	721	15.9	1888	15.9

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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318068,

Project ID: SRS 2004-00061

Lab Batch #: 741117 **Sample:** 318068-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	60.4	50.0	121	70-135	

Lab Batch #: 741117 **Sample:** 318068-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	59.2	50.0	118	70-135	

Lab Batch #: 741117 **Sample:** 318068-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	61.6	50.0	123	70-135	

Lab Batch #: 741117 **Sample:** 318068-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	63.0	50.0	126	70-135	

Lab Batch #: 741117 **Sample:** 318068-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	64.8	50.0	130	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: Lea Station Land Farm

Work Orders : 318068,

Project ID: SRS 2004-00061

Lab Batch #: 741117 **Sample:** 318071-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	100	129	70-135	
o-Terphenyl	61.5	50.0	123	70-135	

Lab Batch #: 741117 **Sample:** 318071-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	60.7	50.0	121	70-135	

Lab Batch #: 741117 **Sample:** 519795-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	63.1	50.0	126	70-135	

Lab Batch #: 741117 **Sample:** 519795-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	59.0	50.0	118	70-135	

Lab Batch #: 741117 **Sample:** 519795-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	59.8	50.0	120	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 318068 **Project ID:** SRS 2004-00061

Lab Batch #: 740951 **Sample:** 740951-1-BKS **Matrix:** Solid

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300\300.1 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	9.99	100	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318068 **Project ID:** SRS 2004-00061

Analyst: BHW **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/22/2008

Lab Batch ID: 741117 **Sample:** 519795-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	901	90	1000	868	87	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	942	94	1000	917	92	3	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318068

Lab Batch #: 740951 **Project ID:** SRS 2004-00061

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR

QC- Sample ID: 318065-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	36.3	104	163	122	80-120	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 318068 **Project ID:** SRS 2004-00061

Lab Batch ID: 741117 **QC- Sample ID:** 318071-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/23/2008 **Date Prepared:** 11/21/2008 **Analyst:** BHW

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1030	896	87	1030	884	86	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1030	961	93	1030	946	92	1	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 318068

Lab Batch #: 740951 **Project ID:** SRS 2004-00061

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR

QC- Sample ID: 318065-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300\300.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	36.3	36.5	1	20	

Lab Batch #: 740815

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** BEV

QC- Sample ID: 318075-002 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	2.01	2.49	21	20	F

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley   PAGE 01 OF 01

Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC

Project #: SRS: 2004-00061

Company Address: P. O. Box 301

Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260

PO #: PAA - D.M. Bryant

Telephone No: (575) 441-2244   Fax No. (575) 396-1429

Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: [signature]   e-mail: cstanley@basinenv.com

(lab use only)
ORDER #: 318068

Analyze For: TCLP: / TOTAL: X

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (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 Se	Volatiles	Semivolatiles	BTEX (8021B)/5030 or BTEX 8260	RCI	N.O.R.M.	CHLORIDES EPA 300			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	CELL D TZ G 1			11/13/2008	925		1	X								SOIL	X											X				X
	CELL D TZ G 2			11/13/2008	930		1	X								SOIL	X											X				X
	CELL D TZ G 3			11/13/2008	935		1	X								SOIL	X											X				X
	CELL D TZ G 4			11/13/2008	940		1	X								SOIL	X											X				X
	CELL D TZ G 5			11/13/2008	945		1	X								SOIL	X											X				X

Special Instructions: [illegible]

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	11/18/08	1712			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jeanne Fitch	11-18-08	1712

Laboratory Comments:
Sample Containers Intact? (Y) N
VOCs Free of Headspace? (Y) N
Labels on container(s) (Y) N
Custody seals on container(s) N/A (Y) N
Custody seals on cooler(s) Y (N)
Sample Hand Delivered (Y) N
by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 3.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains / Basin Environmental

Date/ Time: 11-18-08 @ 1712

Lab ID # : 31866

Initials: JMF

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? / label	(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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 318070

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Lea Station Land Farm

SRS 2004-00061

24-NOV-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B - Odessa/Midland, TX T104704400-08

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

24-NOV-08

Project Manager: **Daniel Bryant**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **318070**
Lea Station Land Farm
Project Address: Lea County, NM

Daniel 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 318070. 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. 318070 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

Sample Cross Reference 318070

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell E TZ G 1	S	Nov-13-08 09:50		318070-001
Cell E TZ G 2	S	Nov-13-08 09:55		318070-002
Cell E TZ G 3	S	Nov-13-08 10:00		318070-003
Cell E TZ G 4	S	Nov-13-08 10:05		318070-004

Certificate of Analysis Summary 318070

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: SRS 2004-00061
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Tue Nov-18-08 05:12 pm
Report Date: 24-NOV-08
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	318070-001		318070-002		318070-003		318070-004					
	Field Id:	Cell E TZ G 1		Cell E TZ G 2		Cell E TZ G 3		Cell E TZ G 4					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Nov-13-08 09:50		Nov-13-08 09:55		Nov-13-08 10:00		Nov-13-08 10:05					
Inorganic Anions by EPA 300\300.1	*Extracted:*												
	Analyzed:	Nov-19-08 22:50		Nov-19-08 22:50		Nov-19-08 22:50		Nov-19-08 22:50					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		ND	5.27	ND	5.25	ND	5.28	ND	5.38				
Percent Moisture	*Extracted:*												
	Analyzed:	Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00					
	Units/RL:	%	RL	%	RL	%	RL	%	RL				
Percent Moisture		5.06	1.00	4.79	1.00	5.33	1.00	7.04	1.00				
TPH by SW8015 Mod	*Extracted:*	Nov-21-08 13:00		Nov-21-08 13:00		Nov-21-08 13:00		Nov-21-08 13:00					
	Analyzed:	Nov-23-08 05:01		Nov-23-08 05:24		Nov-23-08 05:47		Nov-23-08 06:11					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	15.8	ND	15.8	ND	15.8	ND	16.1				
C12-C28 Diesel Range Hydrocarbons		109	15.8	167	15.8	79.0	15.8	20.4	16.1				
C28-C35 Oil Range Hydrocarbons		76.2	15.8	101	15.8	44.8	15.8	17.4	16.1				
Total TPH		185.2	15.8	268	15.8	123.8	15.8	37.8	16.1				

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318070,

Project ID: SRS 2004-00061

Lab Batch #: 741117 **Sample:** 318070-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	58.6	50.0	117	70-135	

Lab Batch #: 741117 **Sample:** 318070-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	56.8	50.0	114	70-135	

Lab Batch #: 741117 **Sample:** 318070-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	55.2	50.0	110	70-135	

Lab Batch #: 741117 **Sample:** 318070-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	58.1	50.0	116	70-135	

Lab Batch #: 741117 **Sample:** 318071-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	100	129	70-135	
o-Terphenyl	61.5	50.0	123	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: Lea Station Land Farm

Work Orders : 318070,

Project ID: SRS 2004-00061

Lab Batch #: 741117 **Sample:** 318071-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	60.7	50.0	121	70-135	

Lab Batch #: 741117 **Sample:** 519795-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	63.1	50.0	126	70-135	

Lab Batch #: 741117 **Sample:** 519795-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	59.0	50.0	118	70-135	

Lab Batch #: 741117 **Sample:** 519795-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	59.8	50.0	120	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 318070 **Project ID:** SRS 2004-00061

Lab Batch #: 740954 **Sample:** 740954-1-BKS **Matrix:** Solid

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300\300.1 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	9.09	91	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318070 **Project ID:** SRS 2004-00061

Analyst: BHW **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/22/2008

Lab Batch ID: 741117 **Sample:** 519795-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
TPH by SW8015 Mod **Analytes**	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	901	90	1000	868	87	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	942	94	1000	917	92	3	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318070
Lab Batch #: 740954
Date Analyzed: 11/19/2008
QC- Sample ID: 318069-001 S
Reporting Units: mg/kg

Project ID: SRS 2004-00061
Date Prepared: 11/19/2008
Analyst: LATCOR
Batch #: 1
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	166	223	410	109	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 318070 **Project ID:** SRS 2004-00061

Lab Batch ID: 741117 **QC- Sample ID:** 318071-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/23/2008 **Date Prepared:** 11/21/2008 **Analyst:** BHW

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1030	896	87	1030	884	86	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1030	961	93	1030	946	92	1	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 318070

Lab Batch #: 740954 **Project ID:** SRS 2004-00061

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR

QC- Sample ID: 318069-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300\300.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	166	168	1	20	

Lab Batch #: 740820

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** BEV

QC- Sample ID: 318073-002 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	3.64	3.90	7	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley PAGE 01 OF 01 Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: 2004-00061

Company Address: P. O. Box 301 Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 PO #: PAA - D.M. Bryant

Telephone No: (575) 441-2244 Fax No: (575) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: e-mail: cstanley@basinenv.com

(lab use only) ORDER #: 318070

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW - Drinking Water SL - Sludge GW - Groundwater S - Soil/Solid NP - Non-Potable Specify Other	Analyze For: TCLP: 8015M	TOTAL: 8015M	TPH TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or 8TEX 8260	HCl	N O R M	CHLORIDES EPA 300.1		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	CELL E TZ G 1			11/13/2008	950		1	X								SOIL	X									X					X
	CELL E TZ G 2			11/13/2008	955		1	X								SOIL	X									X					X
	CELL E TZ G 3			11/13/2008	1000		1	X								SOIL	X									X					X
	CELL E TZ G 4			11/13/2008	1005		1	X								SOIL	X									X					X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	11/18/08	1712			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				11-18-08	1712

Laboratory Comments:

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

Temperature Upon Receipt: 3.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains / Basin Environmental

Date/ Time: 11-18-08 @ 1712

Lab ID #: 31X:10

Initials: JMF

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? / label	(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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 318069

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Lea Station Land Farm

SRS 2004-00061

24-NOV-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B - Odessa/Midland, TX T104704400-08

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

24-NOV-08

Project Manager: **Daniel Bryant**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **318069**
Lea Station Land Farm
Project Address: Lea County, NM

Daniel 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 318069. 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. 318069 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

Sample Cross Reference 318069

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell F TZ G 1	S	Nov-13-08 10:10		318069-001
Cell F TZ G 2	S	Nov-13-08 10:15		318069-002
Cell F TZ G 3	S	Nov-13-08 10:20		318069-003
Cell F TZ G 4	S	Nov-13-08 10:25		318069-004
Cell F TZ G 5	S	Nov-13-08 10:30		318069-005

Certificate of Analysis Summary 318069

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: SRS 2004-00061
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Tue Nov-18-08 05:12 pm
Report Date: 24-NOV-08
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	318069-001		318069-002		318069-003		318069-004		318069-005	
	Field Id:	Cell F TZ G 1		Cell F TZ G 2		Cell F TZ G 3		Cell F TZ G 4		Cell F TZ G 5	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-13-08 10:10		Nov-13-08 10:15		Nov-13-08 10:20		Nov-13-08 10:25		Nov-13-08 10:30	
Inorganic Anions by EPA 300\300.1	*Extracted:*										
	Analyzed:	Nov-19-08 22:50		Nov-19-08 22:50		Nov-19-08 22:50		Nov-19-08 22:50		Nov-19-08 22:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		166	11.2	193	5.47	131	11.1	140	5.38	30.7	5.29
Percent Moisture	*Extracted:*										
	Analyzed:	Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		10.39	1.00	8.52	1.00	10.24	1.00	7.10	1.00	5.53	1.00
TPH by SW8015 Mod	*Extracted:*	Nov-21-08 13:00		Nov-21-08 13:00		Nov-21-08 13:00		Nov-21-08 13:00		Nov-21-08 13:00	
	Analyzed:	Nov-23-08 02:40		Nov-23-08 03:03		Nov-23-08 03:27		Nov-23-08 03:50		Nov-23-08 04:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.7	ND	16.4	ND	16.7	ND	16.1	ND	15.9
C12-C28 Diesel Range Hydrocarbons		214	16.7	189	16.4	415	16.7	431	16.1	139	15.9
C28-C35 Oil Range Hydrocarbons		109	16.7	74.7	16.4	96.6	16.7	98.7	16.1	60.0	15.9
Total TPH		323	16.7	263.7	16.4	511.6	16.7	529.7	16.1	199	15.9

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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318069,

Project ID: SRS 2004-00061

Lab Batch #: 741117 **Sample:** 318069-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	60.2	50.0	120	70-135	

Lab Batch #: 741117 **Sample:** 318069-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	59.5	50.0	119	70-135	

Lab Batch #: 741117 **Sample:** 318069-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	61.9	50.0	124	70-135	

Lab Batch #: 741117 **Sample:** 318069-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	62.3	50.0	125	70-135	

Lab Batch #: 741117 **Sample:** 318069-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	59.2	50.0	118	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: Lea Station Land Farm

Work Orders : 318069,

Project ID: SRS 2004-00061

Lab Batch #: 741117 **Sample:** 318071-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	100	129	70-135	
o-Terphenyl	61.5	50.0	123	70-135	

Lab Batch #: 741117 **Sample:** 318071-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	60.7	50.0	121	70-135	

Lab Batch #: 741117 **Sample:** 519795-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	63.1	50.0	126	70-135	

Lab Batch #: 741117 **Sample:** 519795-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	59.0	50.0	118	70-135	

Lab Batch #: 741117 **Sample:** 519795-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	59.8	50.0	120	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 318069 **Project ID:** SRS 2004-00061

Lab Batch #: 740954 **Sample:** 740954-1-BKS **Matrix:** Solid

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

Inorganic Anions by EPA 300\300.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
	BLANK /BLANK SPIKE RECOVERY STUDY					
Chloride	ND	10.0	9.09	91	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318069 **Project ID:** SRS 2004-00061

Analyst: BHW **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/22/2008

Lab Batch ID: 741117 **Sample:** 519795-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	901	90	1000	868	87	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	942	94	1000	917	92	3	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318069
Lab Batch #: 740954
Date Analyzed: 11/19/2008
QC- Sample ID: 318069-001 S
Reporting Units: mg/kg

Project ID: SRS 2004-00061
Date Prepared: 11/19/2008
Analyst: LATCOR
Batch #: 1
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	166	223	410	109	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 318069 **Project ID:** SRS 2004-00061

Lab Batch ID: 741117 **QC- Sample ID:** 318071-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/23/2008 **Date Prepared:** 11/21/2008 **Analyst:** BHW

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	1030	896	87	1030	884	86	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1030	961	93	1030	946	92	1	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 318069

Lab Batch #: 740954 **Project ID:** SRS 2004-00061

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR

QC- Sample ID: 318069-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300\300.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	166	168	1	20	

Lab Batch #: 740820

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** BEV

QC- Sample ID: 318073-002 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	3.64	3.90	7	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley PAGE 01 OF 01 Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: 2004-00061

Company Address: P. O. Box 301 Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 PO #: PAA - D.M. Bryant

Telephone No: (575) 441-2244 Fax No: (575) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: e-mail: cstanley@basinenv.com

(lab use only) ORDER #: 318069

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW - Drinking Water SL - Sludge; GW - Groundwater S - Soil/Solid; NP - Non-Potable Specify Other	Analyze For: TPH: 418.1 / 8015M	TPH: TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	TCLP: Metals Ag As Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	HCl	N O R M	CHLORIDES EPA 300.1		RUSH TAT (Pre-Schedule) 24, 48, 72 Hrs	Standard TAT
	CELL F TZ G 1			11/13/2008	1010		1	X								SOIL	X								X				X		X
	CELL F TZ G 2			11/13/2008	1015		1	X								SOIL	X								X				X		X
	CELL F TZ G 3			11/13/2008	1020		1	X								SOIL	X								X				X		X
	CELL F TZ G 4			11/13/2008	1025		1	X								SOIL	X								X				X		X
	CELL F TZ G 5			11/13/2008	1030		1	X								SOIL	X								X				X		X

Special Instructions: * No BTEX as per Client's request

Relinquished by:	Date	Time	Received by:	Date	Time
	11/18/08	1712			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jeanne Fitch	11/18/08	1712

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)/labels	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains / Basin Environmental

Date/ Time: 11-18-08 @ 1712

Lab ID #: 31806

Initials: JMF

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? / Label	(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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 318071

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Lea Station Land Farm

SRS 2004-00061

25-NOV-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B - Odessa/Midland, TX T104704400-08

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

25-NOV-08

Project Manager: **Daniel Bryant**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **318071**
Lea Station Land Farm
Project Address: Lea County, NM

Daniel 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 318071. 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. 318071 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

Sample Cross Reference 318071

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell A VZ G 1 (3'-4')	S	Nov-14-08 08:00		318071-001
Cell A VZ G 2 (3'-4')	S	Nov-14-08 08:15		318071-002
Cell A VZ G 3 (3'-4')	S	Nov-14-08 08:30		318071-003
Cell A VZ G 4 (3'-4')	S	Nov-14-08 08:45		318071-004
Cell A VZ G 5 (3'-4')	S	Nov-14-08 09:00		318071-005

Certificate of Analysis Summary 318071

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: SRS 2004-00061
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Tue Nov-18-08 05:12 pm
Report Date: 25-NOV-08
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	318071-001		318071-002		318071-003		318071-004		318071-005	
	Field Id:	Cell A VZ G 1 (3'-4')		Cell A VZ G 2 (3'-4')		Cell A VZ G 3 (3'-4')		Cell A VZ G 4 (3'-4')		Cell A VZ G 5 (3'-4')	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-14-08 08:00		Nov-14-08 08:15		Nov-14-08 08:30		Nov-14-08 08:45		Nov-14-08 09:00	
BTEX by EPA 8021B	*Extracted:*	Nov-20-08 08:00		Nov-20-08 08:00		Nov-20-08 08:00		Nov-20-08 08:00		Nov-20-08 08:00	
	Analyzed:	Nov-20-08 13:14		Nov-20-08 13:35		Nov-20-08 13:57		Nov-20-08 14:20		Nov-20-08 14:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0010	ND	0.0011	ND	0.0012	ND	0.0011	ND	0.0012
Toluene		ND	0.0021	ND	0.0021	ND	0.0023	ND	0.0023	ND	0.0024
Ethylbenzene		ND	0.0010	ND	0.0011	ND	0.0012	ND	0.0011	ND	0.0012
m,p-Xylenes		ND	0.0021	ND	0.0021	ND	0.0023	ND	0.0023	ND	0.0024
o-Xylene		ND	0.0010	ND	0.0011	ND	0.0012	ND	0.0011	ND	0.0012
Total Xylenes		ND	0.0031	ND	0.0032	ND	0.0035	ND	0.0034	ND	0.0036
Total BTEX		ND	0.0072	ND	0.0075	ND	0.0082	ND	0.0079	ND	0.0084
Inorganic Anions by EPA 300\300.1	*Extracted:*										
	Analyzed:	Nov-19-08 22:50		Nov-19-08 22:50		Nov-19-08 22:50		Nov-19-08 22:50		Nov-19-08 22:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	5.17	ND	5.34	ND	5.76	ND	5.71	ND	6.10
Percent Moisture	*Extracted:*										
	Analyzed:	Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		3.38	1.00	6.32	1.00	13.16	1.00	12.46	1.00	17.97	1.00
TPH by SW8015 Mod	*Extracted:*	Nov-21-08 13:00		Nov-21-08 13:00		Nov-21-08 13:00		Nov-21-08 13:00		Nov-21-08 13:00	
	Analyzed:	Nov-23-08 06:34		Nov-23-08 06:58		Nov-23-08 07:21		Nov-23-08 07:45		Nov-23-08 08:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.5	ND	16.0	ND	17.3	ND	17.1	ND	18.3
C12-C28 Diesel Range Hydrocarbons		ND	15.5	ND	16.0	ND	17.3	ND	17.1	ND	18.3
C28-C35 Oil Range Hydrocarbons		ND	15.5	ND	16.0	ND	17.3	ND	17.1	ND	18.3
Total TPH		ND	15.5	ND	16.0	ND	17.3	ND	17.1	ND	18.3

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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318071,

Project ID: SRS 2004-00061

Lab Batch #: 740971 **Sample:** 318071-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0332	0.0300	111	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 740971 **Sample:** 318071-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0314	0.0300	105	80-120	

Lab Batch #: 740971 **Sample:** 318071-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 740971 **Sample:** 318071-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

Lab Batch #: 740971 **Sample:** 318071-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0329	0.0300	110	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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318071,

Project ID: SRS 2004-00061

Lab Batch #: 740971 **Sample:** 318071-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 740971 **Sample:** 318071-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	80-120	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	

Lab Batch #: 740971 **Sample:** 519683-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 740971 **Sample:** 519683-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 740971 **Sample:** 519683-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0292	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: Lea Station Land Farm

Work Orders : 318071,

Project ID: SRS 2004-00061

Lab Batch #: 741117 **Sample:** 318071-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	56.7	50.0	113	70-135	

Lab Batch #: 741117 **Sample:** 318071-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	100	129	70-135	
o-Terphenyl	61.5	50.0	123	70-135	

Lab Batch #: 741117 **Sample:** 318071-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	60.7	50.0	121	70-135	

Lab Batch #: 741117 **Sample:** 318071-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	57.0	50.0	114	70-135	

Lab Batch #: 741117 **Sample:** 318071-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	58.6	50.0	117	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: Lea Station Land Farm

Work Orders : 318071,

Project ID: SRS 2004-00061

Lab Batch #: 741117 **Sample:** 318071-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	59.2	50.0	118	70-135	

Lab Batch #: 741117 **Sample:** 318071-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	59.0	50.0	118	70-135	

Lab Batch #: 741117 **Sample:** 519795-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	63.1	50.0	126	70-135	

Lab Batch #: 741117 **Sample:** 519795-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	59.0	50.0	118	70-135	

Lab Batch #: 741117 **Sample:** 519795-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	59.8	50.0	120	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 318071 **Project ID:** SRS 2004-00061

Lab Batch #: 740954 **Sample:** 740954-1-BKS **Matrix:** Solid

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300\300.1 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	9.09	91	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318071 **Project ID:** SRS 2004-00061

Analyst: ASA **Date Prepared:** 11/20/2008 **Date Analyzed:** 11/20/2008

Lab Batch ID: 740971 **Sample:** 519683-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	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	0.0913	91	0.1	0.0932	93	2	70-130	35	
Toluene	ND	0.1000	0.0890	89	0.1	0.0909	91	2	70-130	35	
Ethylbenzene	ND	0.1000	0.0950	95	0.1	0.0966	97	2	71-129	35	
m,p-Xylenes	ND	0.2000	0.1932	97	0.2	0.1960	98	1	70-135	35	
o-Xylene	ND	0.1000	0.0921	92	0.1	0.0935	94	2	71-133	35	

Analyst: BHW **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/22/2008

Lab Batch ID: 741117 **Sample:** 519795-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	901	90	1000	868	87	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	942	94	1000	917	92	3	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318071
Lab Batch #: 740954
Date Analyzed: 11/19/2008
QC- Sample ID: 318069-001 S
Reporting Units: mg/kg

Project ID: SRS 2004-00061
Date Prepared: 11/19/2008
Analyst: LATCOR
Batch #: 1
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	166	223	410	109	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 318071 **Project ID:** SRS 2004-00061

Lab Batch ID: 740971 **QC- Sample ID:** 318071-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/20/2008 **Date Prepared:** 11/20/2008 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	0.1035	0.0698	67	0.1035	0.0710	69	3	70-130	35	X
Toluene	ND	0.1035	0.0674	65	0.1035	0.0684	66	2	70-130	35	X
Ethylbenzene	ND	0.1035	0.0701	68	0.1035	0.0710	69	1	71-129	35	X
m,p-Xylenes	ND	0.2070	0.1425	69	0.2070	0.1439	70	1	70-135	35	X
o-Xylene	ND	0.1035	0.0672	65	0.1035	0.0678	66	2	71-133	35	X

Lab Batch ID: 741117 **QC- Sample ID:** 318071-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/23/2008 **Date Prepared:** 11/21/2008 **Analyst:** BHW

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1030	896	87	1030	884	86	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1030	961	93	1030	946	92	1	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 318071

Lab Batch #: 740954 **Project ID:** SRS 2004-00061
Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR
QC- Sample ID: 318069-001 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300\300.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	166	168	1	20	

Lab Batch #: 740815
Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** BEV
QC- Sample ID: 318075-002 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	2.01	2.49	21	20	F

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley PAGE 01 OF 01 Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: 2004-00061

Company Address: P. O. Box 301 Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 PO #: PAA - D.M. Bryant

Telephone No: (575) 441-2244 Fax No: (575) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: C. Bryant e-mail: cstanley@basinenv.com

(lab use only) ORDER #: 318071

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW - Drinking Water SL - Sludge; GW - Groundwater S - Soil/Solid; NP - Non-Potable Specify Other	Analyze For: TPH: 418.1 8015M	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	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 300.1		RUSH TAT (Pre-Scheduled) 24, 48, 72 hrs.	Standard TAT
	CELL A VZ G 1 (3'- 4')			11/14/2008	800		1	X								SOIL	X								X			X			X
	CELL A VZ G 2 (3'- 4')			11/14/2008	815		1	X								SOIL	X								X			X			X
	CELL A VZ G 3 (3'- 4')			11/14/2008	830		1	X								SOIL	X								X			X			X
	CELL A VZ G 4 (3'- 4')			11/14/2008	845		1	X								SOIL	X								X			X			X
	CELL A VZ G 5 (3'- 4')			11/14/2008	900		1	X								SOIL	X								X			X			X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	11/13/08	17:12			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by	Date	Time	Received by ELOT	Date	Time
				11-18-08	17:12

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s) / labels	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sample/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains / Basin Environmental

Date/ Time: 11-13-08 @ 1712

Lab ID #: 31201

Initials: JMF

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? / (label)	(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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 318072

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Lea Station Land Farm

SRS 2004-00061

25-NOV-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B - Odessa/Midland, TX T104704400-08

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

25-NOV-08

Project Manager: **Daniel Bryant**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **318072**
Lea Station Land Farm
Project Address: Lea County, NM

Daniel 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 318072. 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. 318072 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

Sample Cross Reference 318072

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell B VZ G 1 (3'-4')	S	Nov-14-08 09:15		318072-001
Cell B VZ G 2 (3'-4')	S	Nov-14-08 09:30		318072-002
Cell B VZ G 3 (3'-4')	S	Nov-14-08 09:45		318072-003
Cell B VZ G 4 (3'-4')	S	Nov-14-08 10:00		318072-004
Cell B VZ G 5 (3'-4')	S	Nov-14-08 10:15		318072-005

Certificate of Analysis Summary 318072

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: SRS 2004-00061
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Tue Nov-18-08 05:12 pm
Report Date: 25-NOV-08
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	318072-001		318072-002		318072-003		318072-004		318072-005	
	Field Id:	Cell B VZ G 1 (3'-4')		Cell B VZ G 2 (3'-4')		Cell B VZ G 3 (3'-4')		Cell B VZ G 4 (3'-4')		Cell B VZ G 5 (3'-4')	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-14-08 09:15		Nov-14-08 09:30		Nov-14-08 09:45		Nov-14-08 10:00		Nov-14-08 10:15	
BTEX by EPA 8021B	*Extracted:*	Nov-20-08 08:00		Nov-20-08 08:00		Nov-20-08 08:00		Nov-20-08 08:00		Nov-20-08 08:00	
	Analyzed:	Nov-20-08 15:05		Nov-20-08 15:27		Nov-20-08 15:51		Nov-20-08 16:13		Nov-20-08 18:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0010	ND	0.0011
Toluene		ND	0.0022	ND	0.0022	ND	0.0021	ND	0.0020	ND	0.0022
Ethylbenzene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0010	ND	0.0011
m,p-Xylenes		ND	0.0022	ND	0.0022	ND	0.0021	ND	0.0020	ND	0.0022
o-Xylene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0010	ND	0.0011
Total Xylenes		ND	0.0033	ND	0.0033	ND	0.0032	ND	0.0030	ND	0.0033
Total BTEX		ND	0.0077	ND	0.0077	ND	0.0075	ND	0.0070	ND	0.0077
Inorganic Anions by EPA 300\300.1	*Extracted:*										
	Analyzed:	Nov-19-08 22:50		Nov-19-08 22:50		Nov-19-08 22:50		Nov-19-08 22:50		Nov-19-08 22:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	5.61	ND	5.55	ND	5.26	ND	5.11	ND	5.50
Percent Moisture	*Extracted:*										
	Analyzed:	Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		10.90	1.00	9.95	1.00	4.94	1.00	2.24	1.00	9.02	1.00
TPH by SW8015 Mod	*Extracted:*	Nov-21-08 13:00		Nov-21-08 14:00		Nov-21-08 14:00		Nov-21-08 14:00		Nov-21-08 14:00	
	Analyzed:	Nov-23-08 08:32		Nov-23-08 12:49		Nov-23-08 13:12		Nov-23-08 13:35		Nov-23-08 13:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.8	ND	16.7	ND	15.8	ND	15.3	ND	16.5
C12-C28 Diesel Range Hydrocarbons		ND	16.8	ND	16.7	ND	15.8	ND	15.3	ND	16.5
C28-C35 Oil Range Hydrocarbons		ND	16.8	ND	16.7	ND	15.8	ND	15.3	ND	16.5
Total TPH		ND	16.8	ND	16.7	ND	15.8	ND	15.3	ND	16.5

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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318072, **Project ID:** SRS 2004-00061

Lab Batch #: 740971 **Sample:** 318071-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0314	0.0300	105	80-120	

Lab Batch #: 740971 **Sample:** 318071-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 740971 **Sample:** 318072-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 740971 **Sample:** 318072-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene	0.0237	0.0300	79	80-120	**

Lab Batch #: 740971 **Sample:** 318072-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	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: Lea Station Land Farm

Work Orders : 318072,

Project ID: SRS 2004-00061

Lab Batch #: 740971 **Sample:** 318072-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 740971 **Sample:** 318072-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0346	0.0300	115	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 740971 **Sample:** 519683-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 740971 **Sample:** 519683-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 740971 **Sample:** 519683-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0292	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: Lea Station Land Farm

Work Orders : 318072,

Project ID: SRS 2004-00061

Lab Batch #: 741117 **Sample:** 318071-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	100	129	70-135	
o-Terphenyl	61.5	50.0	123	70-135	

Lab Batch #: 741117 **Sample:** 318071-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	60.7	50.0	121	70-135	

Lab Batch #: 741117 **Sample:** 318072-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	58.4	50.0	117	70-135	

Lab Batch #: 741117 **Sample:** 519795-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	63.1	50.0	126	70-135	

Lab Batch #: 741117 **Sample:** 519795-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	59.0	50.0	118	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: Lea Station Land Farm

Work Orders : 318072,

Project ID: SRS 2004-00061

Lab Batch #: 741117 **Sample:** 519795-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	59.8	50.0	120	70-135	

Lab Batch #: 741130 **Sample:** 318072-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	57.7	50.0	115	70-135	

Lab Batch #: 741130 **Sample:** 318072-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	100	120	70-135	
o-Terphenyl	58.7	50.0	117	70-135	

Lab Batch #: 741130 **Sample:** 318072-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	56.5	50.0	113	70-135	

Lab Batch #: 741130 **Sample:** 318072-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	57.4	50.0	115	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: Lea Station Land Farm

Work Orders : 318072,

Project ID: SRS 2004-00061

Lab Batch #: 741130 **Sample:** 318074-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	61.3	50.0	123	70-135	

Lab Batch #: 741130 **Sample:** 318074-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	128	100	128	70-135	
o-Terphenyl	61.2	50.0	122	70-135	

Lab Batch #: 741130 **Sample:** 519805-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	62.7	50.0	125	70-135	

Lab Batch #: 741130 **Sample:** 519805-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	59.3	50.0	119	70-135	

Lab Batch #: 741130 **Sample:** 519805-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	130	100	130	70-135	
o-Terphenyl	61.6	50.0	123	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 318072 **Project ID:** SRS 2004-00061

Lab Batch #: 740954 **Sample:** 740954-1-BKS **Matrix:** Solid

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300\300.1 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	9.09	91	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318072 **Project ID:** SRS 2004-00061

Analyst: ASA **Date Prepared:** 11/20/2008 **Date Analyzed:** 11/20/2008

Lab Batch ID: 740971 **Sample:** 519683-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	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	0.0913	91	0.1	0.0932	93	2	70-130	35	
Toluene	ND	0.1000	0.0890	89	0.1	0.0909	91	2	70-130	35	
Ethylbenzene	ND	0.1000	0.0950	95	0.1	0.0966	97	2	71-129	35	
m,p-Xylenes	ND	0.2000	0.1932	97	0.2	0.1960	98	1	70-135	35	
o-Xylene	ND	0.1000	0.0921	92	0.1	0.0935	94	2	71-133	35	

Analyst: BHW **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/22/2008

Lab Batch ID: 741117 **Sample:** 519795-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	901	90	1000	868	87	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	942	94	1000	917	92	3	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+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

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318072 **Project ID:** SRS 2004-00061

Analyst: BHW **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/23/2008

Lab Batch ID: 741130 **Sample:** 519805-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	910	91	1000	893	89	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	938	94	1000	935	94	0	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318072

Lab Batch #: 740954

Project ID: SRS 2004-00061

Date Analyzed: 11/19/2008

Date Prepared: 11/19/2008

Analyst: LATCOR

QC- Sample ID: 318069-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	166	223	410	109	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference [E] = 200*(C-A)/(C+B)

All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 318072 **Project ID:** SRS 2004-00061

Lab Batch ID: 740971 **QC- Sample ID:** 318071-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/20/2008 **Date Prepared:** 11/20/2008 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	0.1035	0.0698	67	0.1035	0.0710	69	3	70-130	35	X
Toluene	ND	0.1035	0.0674	65	0.1035	0.0684	66	2	70-130	35	X
Ethylbenzene	ND	0.1035	0.0701	68	0.1035	0.0710	69	1	71-129	35	X
m,p-Xylenes	ND	0.2070	0.1425	69	0.2070	0.1439	70	1	70-135	35	X
o-Xylene	ND	0.1035	0.0672	65	0.1035	0.0678	66	2	71-133	35	X

Lab Batch ID: 741117 **QC- Sample ID:** 318071-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/23/2008 **Date Prepared:** 11/21/2008 **Analyst:** BHW

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1030	896	87	1030	884	86	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1030	961	93	1030	946	92	1	70-135	35	

Lab Batch ID: 741130 **QC- Sample ID:** 318074-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/23/2008 **Date Prepared:** 11/21/2008 **Analyst:** BHW

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1120	963	86	1120	964	86	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1120	1010	90	1120	1030	92	2	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 318072

Lab Batch #: 740954 **Project ID:** SRS 2004-00061
Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR
QC- Sample ID: 318069-001 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300\300.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	166	168	1	20	

Lab Batch #: 740815
Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** BEV
QC- Sample ID: 318075-002 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	2.01	2.49	21	20	F

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley PAGE 01 OF 01 Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: 2004-00081

Company Address: P. O. Box 301 Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 PO #: PAA - D.M. Bryant

Telephone No: (575) 441-2244 Fax No: (575) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: e-mail: cstanley@basinenv.com

(lab use only)
ORDER #: 318072

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: SL - Sludge; GW - Drinking Water; S - Soil/Solid; NP - non potable Specify Other	Analyze For: TPH: 418.1 / 8015M	TPH: TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	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 300.1		RUSH TAT (Pre-Scheduled by 24, 48, 72 hrs.)	Standard TAT
	CELL B VZ G 1 (3'- 4')			11/14/2008	915		1	X								SOIL	X								X			X			X
	CELL B VZ G 2 (3' - 4')			11/14/2008	930		1	X								SOIL	X								X			X			X
	CELL B VZ G 3 (3'- 4')			11/14/2008	945		1	X								SOIL	X								X			X			X
	CELL B VZ G 4 (3' - 4')			11/14/2008	1000		1	X								SOIL	X								X			X			X
	CELL B VZ G 5 (3' - 4')			11/14/2008	1015		1	X								SOIL	X								X			X			X

Special Instructions:

	Date	Time		Date	Time
Relinquished by:	11/18/08	1712	Received by:		
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by	Date	Time	Received by ELOT:	Date	Time
			Jeanne Fitch	11-18-08	1712

Laboratory Comments:

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

Temperature Upon Receipt: 3.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains / Basin Environmental

Date/ Time: 11-18-08 @ 1712

Lab ID #: 31E072

Initials: JMF

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? / (Label)	(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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 318073

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Lea Station Land Farm

SRS 2004-00061

24-NOV-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B - Odessa/Midland, TX T104704400-08

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

24-NOV-08

Project Manager: **Daniel Bryant**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **318073**
Lea Station Land Farm
Project Address: Lea County, NM

Daniel 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 318073. 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. 318073 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

Sample Cross Reference 318073

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell C VZ G 1 (3'-4')	S	Nov-14-08 10:30		318073-001
Cell C VZ G 2 (3'-4')	S	Nov-14-08 10:45		318073-002
Cell C VZ G 3 (3'-4')	S	Nov-14-08 11:00		318073-003
Cell C VZ G 4 (3'-4')	S	Nov-14-08 11:15		318073-004
Cell C VZ G 5 (3'-4')	S	Nov-14-08 11:30		318073-005

Certificate of Analysis Summary 318073

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: SRS 2004-00061
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Tue Nov-18-08 05:12 pm
Report Date: 24-NOV-08
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	318073-001		318073-002		318073-003		318073-004		318073-005	
	Field Id:	Cell C VZ G 1 (3'-4')		Cell C VZ G 2 (3'-4')		Cell C VZ G 3 (3'-4')		Cell C VZ G 4 (3'-4')		Cell C VZ G 5 (3'-4')	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-14-08 10:30		Nov-14-08 10:45		Nov-14-08 11:00		Nov-14-08 11:15		Nov-14-08 11:30	
BTEX by EPA 8021B	*Extracted:*	Nov-20-08 08:00		Nov-20-08 08:00		Nov-20-08 08:00		Nov-20-08 08:00		Nov-20-08 08:00	
	Analyzed:	Nov-20-08 18:27		Nov-20-08 18:49		Nov-20-08 19:11		Nov-20-08 19:33		Nov-20-08 19:56	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0012	ND	0.0010	ND	0.0012	ND	0.0011	ND	0.0011
Toluene		ND	0.0024	ND	0.0021	ND	0.0024	ND	0.0023	ND	0.0022
Ethylbenzene		ND	0.0012	ND	0.0010	ND	0.0012	ND	0.0011	ND	0.0011
m,p-Xylenes		ND	0.0024	ND	0.0021	ND	0.0024	ND	0.0023	ND	0.0022
o-Xylene		ND	0.0012	ND	0.0010	ND	0.0012	ND	0.0011	ND	0.0011
Total Xylenes		ND	0.0036	ND	0.0031	ND	0.0036	ND	0.0034	ND	0.0033
Total BTEX		ND	0.0084	ND	0.0072	ND	0.0084	ND	0.0079	ND	0.0077
Inorganic Anions by EPA 300\300.1	*Extracted:*										
	Analyzed:	Nov-19-08 22:50		Nov-20-08 07:02		Nov-20-08 07:02		Nov-20-08 07:02		Nov-20-08 07:02	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	6.09	ND	5.19	ND	6.12	ND	5.74	ND	5.60
Percent Moisture	*Extracted:*										
	Analyzed:	Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		17.96	1.00	3.64	1.00	18.33	1.00	12.89	1.00	10.75	1.00
TPH by SW8015 Mod	*Extracted:*	Nov-21-08 14:00		Nov-21-08 14:00		Nov-21-08 14:00		Nov-21-08 14:00		Nov-21-08 14:00	
	Analyzed:	Nov-23-08 14:22		Nov-23-08 14:47		Nov-23-08 15:11		Nov-23-08 15:35		Nov-23-08 15:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	18.3	ND	15.6	ND	18.4	ND	17.2	ND	16.8
C12-C28 Diesel Range Hydrocarbons		ND	18.3	ND	15.6	ND	18.4	ND	17.2	ND	16.8
C28-C35 Oil Range Hydrocarbons		ND	18.3	ND	15.6	ND	18.4	ND	17.2	ND	16.8
Total TPH		ND	18.3	ND	15.6	ND	18.4	ND	17.2	ND	16.8

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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318073,

Project ID: SRS 2004-00061

Lab Batch #: 740971 **Sample:** 318071-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0314	0.0300	105	80-120	

Lab Batch #: 740971 **Sample:** 318071-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 740971 **Sample:** 318073-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0337	0.0300	112	80-120	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	

Lab Batch #: 740971 **Sample:** 318073-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0332	0.0300	111	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

Lab Batch #: 740971 **Sample:** 318073-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0329	0.0300	110	80-120	
4-Bromofluorobenzene	0.0223	0.0300	74	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: Lea Station Land Farm

Work Orders : 318073,

Project ID: SRS 2004-00061

Lab Batch #: 740971 **Sample:** 318073-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0250	0.0300	83	80-120	

Lab Batch #: 740971 **Sample:** 318073-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 740971 **Sample:** 519683-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 740971 **Sample:** 519683-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 740971 **Sample:** 519683-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0292	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: Lea Station Land Farm

Work Orders : 318073,

Project ID: SRS 2004-00061

Lab Batch #: 741130 **Sample:** 318073-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	58.0	50.0	116	70-135	

Lab Batch #: 741130 **Sample:** 318073-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	57.4	50.0	115	70-135	

Lab Batch #: 741130 **Sample:** 318073-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	59.3	50.0	119	70-135	

Lab Batch #: 741130 **Sample:** 318073-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	57.5	50.0	115	70-135	

Lab Batch #: 741130 **Sample:** 318073-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	59.1	50.0	118	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: Lea Station Land Farm

Work Orders : 318073,

Project ID: SRS 2004-00061

Lab Batch #: 741130 **Sample:** 318074-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	61.3	50.0	123	70-135	

Lab Batch #: 741130 **Sample:** 318074-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	128	100	128	70-135	
o-Terphenyl	61.2	50.0	122	70-135	

Lab Batch #: 741130 **Sample:** 519805-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	62.7	50.0	125	70-135	

Lab Batch #: 741130 **Sample:** 519805-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	59.3	50.0	119	70-135	

Lab Batch #: 741130 **Sample:** 519805-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	130	100	130	70-135	
o-Terphenyl	61.6	50.0	123	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 318073 **Project ID:** SRS 2004-00061

Lab Batch #: 740954 **Sample:** 740954-1-BKS **Matrix:** Solid
Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR
Reporting Units: mg/kg **Batch #:** 1

Inorganic Anions by EPA 300\300.1 Analytes	Blank Result [A]	BLANK /BLANK SPIKE RECOVERY STUDY Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	9.09	91	80-120	

Lab Batch #: 740955 **Sample:** 740955-1-BKS **Matrix:** Solid
Date Analyzed: 11/20/2008 **Date Prepared:** 11/20/2008 **Analyst:** LATCOR
Reporting Units: mg/kg **Batch #:** 1

Inorganic Anions by EPA 300\300.1 Analytes	Blank Result [A]	BLANK /BLANK SPIKE RECOVERY STUDY Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	10.1	101	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318073 **Project ID:** SRS 2004-00061

Analyst: ASA **Date Prepared:** 11/20/2008 **Date Analyzed:** 11/20/2008

Lab Batch ID: 740971 **Sample:** 519683-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	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	0.0913	91	0.1	0.0932	93	2	70-130	35	
Toluene	ND	0.1000	0.0890	89	0.1	0.0909	91	2	70-130	35	
Ethylbenzene	ND	0.1000	0.0950	95	0.1	0.0966	97	2	71-129	35	
m,p-Xylenes	ND	0.2000	0.1932	97	0.2	0.1960	98	1	70-135	35	
o-Xylene	ND	0.1000	0.0921	92	0.1	0.0935	94	2	71-133	35	

Analyst: BHW **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/23/2008

Lab Batch ID: 741130 **Sample:** 519805-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	910	91	1000	893	89	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	938	94	1000	935	94	0	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318073

Lab Batch #: 740954 **Project ID:** SRS 2004-00061

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR

QC- Sample ID: 318069-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	166	223	410	109	80-120	

Lab Batch #: 740955

Date Analyzed: 11/20/2008 **Date Prepared:** 11/20/2008 **Analyst:** LATCOR

QC- Sample ID: 318073-002 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	104	95.4	92	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 318073 **Project ID:** SRS 2004-00061

Lab Batch ID: 740971 **QC- Sample ID:** 318071-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/20/2008 **Date Prepared:** 11/20/2008 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
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	0.1035	0.0698	67	0.1035	0.0710	69	3	70-130	35	X
Toluene	ND	0.1035	0.0674	65	0.1035	0.0684	66	2	70-130	35	X
Ethylbenzene	ND	0.1035	0.0701	68	0.1035	0.0710	69	1	71-129	35	X
m,p-Xylenes	ND	0.2070	0.1425	69	0.2070	0.1439	70	1	70-135	35	X
o-Xylene	ND	0.1035	0.0672	65	0.1035	0.0678	66	2	71-133	35	X

Lab Batch ID: 741130 **QC- Sample ID:** 318074-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/23/2008 **Date Prepared:** 11/21/2008 **Analyst:** BHW

Reporting Units: mg/kg

TPH by SW8015 Mod	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
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	1120	963	86	1120	964	86	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1120	1010	90	1120	1030	92	2	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 318073

Lab Batch #: 740954 **Project ID:** SRS 2004-00061
Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** LATCOR
QC- Sample ID: 318069-001 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300\300.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	166	168	1	20	

Lab Batch #: 740955
Date Analyzed: 11/20/2008 **Date Prepared:** 11/20/2008 **Analyst:** LATCOR
QC- Sample ID: 318073-002 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300\300.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	ND	ND	NC	20	

Lab Batch #: 740815
Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** BEV
QC- Sample ID: 318075-002 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	2.01	2.49	21	20	F

Lab Batch #: 740820
Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** BEV
QC- Sample ID: 318073-002 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	3.64	3.90	7	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley PAGE 01 OF 01 Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: 2004-00061

Company Address: P. O. Box 301 Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 PO #: PAA - D.M. Bryant

Telephone No.: (575) 441-2244 Fax No: (575) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: e-mail: cstanley@basinenv.com

(lab use only) ORDER #: 318073

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW = Drinking Water SL = Sludge; GW = Groundwater S = Soil/Sol; NP = Non-Potable Specify Other	Analyze For: TPH: 418.1 / 8015M	TPH: TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	HCl	NO3-NM	CHLORIDES EPA 300.1		RUSH TAT (pre-Schedule) 24, 48, 72 hrs	Standard TAT
	CELL C VZ G 1 (3' - 4')			11/14/2008	1030		1	X								SOIL	X								X			X			X
	CELL C VZ G 2 (3' - 4')			11/14/2008	1045		1	X								SOIL	X								X			X			X
	CELL C VZ G 3 (3' - 4')			11/14/2008	1100		1	X								SOIL	X								X			X			X
	CELL C VZ G 4 (3' - 4')			11/14/2008	1115		1	X								SOIL	X								X			X			X
	CELL C VZ G 5 (3' - 4')			11/14/2008	1130		1	X								SOIL	X								X			X			X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	11/18/08	1712			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				11-18-08	1712

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

Temperature Upon Receipt: 3.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains / Basin Environmental

Date/ Time: 11-18-08 @ 1712

Lab ID #: 31803

Initials: JMF

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? / label	(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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 318074

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Lea Station Land Farm

SRS 2004-00061

25-NOV-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B - Odessa/Midland, TX T104704400-08

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

25-NOV-08

Project Manager: **Daniel Bryant**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **318074**
Lea Station Land Farm
Project Address: Lea County, NM

Daniel 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 318074. 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. 318074 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

Sample Cross Reference 318074

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell D VZ G 1 (3'-4')	S	Nov-14-08 11:45		318074-001
Cell D VZ G 2 (3'-4')	S	Nov-14-08 12:00		318074-002
Cell D VZ G 3 (3'-4')	S	Nov-14-08 12:15		318074-003
Cell D VZ G 4 (3'-4')	S	Nov-14-08 12:30		318074-004
Cell D VZ G 5 (3'-4')	S	Nov-14-08 12:45		318074-005

Certificate of Analysis Summary 318074

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: SRS 2004-00061
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Tue Nov-18-08 05:12 pm
Report Date: 25-NOV-08
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	318074-001		318074-002		318074-003		318074-004		318074-005	
	Field Id:	Cell D VZ G 1 (3'-4')		Cell D VZ G 2 (3'-4')		Cell D VZ G 3 (3'-4')		Cell D VZ G 4 (3'-4')		Cell D VZ G 5 (3'-4')	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-14-08 11:45		Nov-14-08 12:00		Nov-14-08 12:15		Nov-14-08 12:30		Nov-14-08 12:45	
BTEX by EPA 8021B	*Extracted:*	Nov-21-08 08:00		Nov-21-08 08:00		Nov-21-08 08:00		Nov-21-08 08:00		Nov-21-08 08:00	
	Analyzed:	Nov-21-08 14:21		Nov-21-08 14:44		Nov-21-08 16:16		Nov-21-08 16:39		Nov-21-08 17:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
Toluene		ND	0.0022	ND	0.0022	ND	0.0022	ND	0.0023	ND	0.0022
Ethylbenzene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
m,p-Xylenes		ND	0.0022	ND	0.0022	ND	0.0022	ND	0.0023	ND	0.0022
o-Xylene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
Total Xylenes		ND	0.0022	ND	0.0022	ND	0.0022	ND	0.0023	ND	0.0022
Total BTEX		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
Inorganic Anions by EPA 300\300.1	*Extracted:*										
	Analyzed:	Nov-20-08 07:02		Nov-20-08 07:02		Nov-20-08 07:02		Nov-20-08 07:02		Nov-20-08 07:02	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	5.53	ND	5.41	ND	5.53	ND	5.73	ND	5.61
Percent Moisture	*Extracted:*										
	Analyzed:	Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		9.63	1.00	7.62	1.00	9.63	1.00	12.77	1.00	10.85	1.00
TPH by SW8015 Mod	*Extracted:*	Nov-21-08 14:00		Nov-21-08 14:00		Nov-21-08 14:00		Nov-21-08 14:00		Nov-21-08 14:00	
	Analyzed:	Nov-23-08 16:23		Nov-23-08 17:11		Nov-24-08 15:42		Nov-23-08 17:58		Nov-23-08 18:22	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.6	ND	16.2	ND	16.6	ND	17.2	ND	16.8
C12-C28 Diesel Range Hydrocarbons		ND	16.6	ND	16.2	ND	16.6	ND	17.2	ND	16.8
C28-C35 Oil Range Hydrocarbons		ND	16.6	ND	16.2	ND	16.6	ND	17.2	ND	16.8
Total TPH		ND	16.6	ND	16.2	ND	16.6	ND	17.2	ND	16.8

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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318074, **Project ID:** SRS 2004-00061

Lab Batch #: 741216 **Sample:** 318074-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0330	0.0300	110	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 741216 **Sample:** 318074-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

Lab Batch #: 741216 **Sample:** 318074-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 741216 **Sample:** 318074-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0330	0.0300	110	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

Lab Batch #: 741216 **Sample:** 318074-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	80-120	
4-Bromofluorobenzene	0.0271	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: Lea Station Land Farm

Work Orders : 318074, **Project ID:** SRS 2004-00061

Lab Batch #: 741216 **Sample:** 318074-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	80-120	
4-Bromofluorobenzene	0.0282	0.0300	94	80-120	

Lab Batch #: 741216 **Sample:** 318074-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	

Lab Batch #: 741216 **Sample:** 519846-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 741216 **Sample:** 519846-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0330	0.0300	110	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 741216 **Sample:** 519846-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318074,

Project ID: SRS 2004-00061

Lab Batch #: 741130 **Sample:** 318074-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	121	100	121	70-135	
o-Terphenyl	60.3	50.0	121	70-135	

Lab Batch #: 741130 **Sample:** 318074-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	58.7	50.0	117	70-135	

Lab Batch #: 741130 **Sample:** 318074-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	100	120	70-135	
o-Terphenyl	60.9	50.0	122	70-135	

Lab Batch #: 741130 **Sample:** 318074-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	122	100	122	70-135	
o-Terphenyl	61.1	50.0	122	70-135	

Lab Batch #: 741130 **Sample:** 318074-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	100	120	70-135	
o-Terphenyl	60.3	50.0	121	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: Lea Station Land Farm

Work Orders : 318074, **Project ID:** SRS 2004-00061

Lab Batch #: 741130 **Sample:** 318074-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	61.3	50.0	123	70-135	

Lab Batch #: 741130 **Sample:** 318074-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	128	100	128	70-135	
o-Terphenyl	61.2	50.0	122	70-135	

Lab Batch #: 741130 **Sample:** 519805-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	62.7	50.0	125	70-135	

Lab Batch #: 741130 **Sample:** 519805-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	59.3	50.0	119	70-135	

Lab Batch #: 741130 **Sample:** 519805-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	130	100	130	70-135	
o-Terphenyl	61.6	50.0	123	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 318074 **Project ID:** SRS 2004-00061

Lab Batch #: 740955 **Sample:** 740955-1-BKS **Matrix:** Solid

Date Analyzed: 11/20/2008 **Date Prepared:** 11/20/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

Inorganic Anions by EPA 300\300.1	BLANK /BLANK SPIKE RECOVERY STUDY					
Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	10.1	101	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318074

Project ID: SRS 2004-00061

Analyst: ASA **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/21/2008

Lab Batch ID: 741216 **Sample:** 519846-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	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	0.1041	104	0.1	0.1041	104	0	70-130	35	
Toluene	ND	0.1000	0.0976	98	0.1	0.0976	98	0	70-130	35	
Ethylbenzene	ND	0.1000	0.0968	97	0.1	0.0968	97	0	71-129	35	
m,p-Xylenes	ND	0.2000	0.1949	97	0.2	0.1949	97	0	70-135	35	
o-Xylene	ND	0.1000	0.0918	92	0.1	0.0918	92	0	71-133	35	

Analyst: BHW **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/23/2008

Lab Batch ID: 741130 **Sample:** 519805-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	910	91	1000	893	89	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	938	94	1000	935	94	0	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318074
Lab Batch #: 740955
Date Analyzed: 11/20/2008
QC- Sample ID: 318073-002 S
Reporting Units: mg/kg

Project ID: SRS 2004-00061
Date Prepared: 11/20/2008
Analyst: LATCOR
Batch #: 1
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	104	95.4	92	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 318074 **Project ID:** SRS 2004-00061

Lab Batch ID: 741216 **QC- Sample ID:** 318074-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/22/2008 **Date Prepared:** 11/21/2008 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	0.1107	0.1067	96	0.1107	0.1110	100	4	70-130	35	
Toluene	ND	0.1107	0.0986	89	0.1107	0.1030	93	4	70-130	35	
Ethylbenzene	ND	0.1107	0.0942	85	0.1107	0.1016	92	8	71-129	35	
m,p-Xylenes	ND	0.2213	0.1907	86	0.2213	0.2056	93	8	70-135	35	
o-Xylene	ND	0.1107	0.0931	84	0.1107	0.0982	89	6	71-133	35	

Lab Batch ID: 741130 **QC- Sample ID:** 318074-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/23/2008 **Date Prepared:** 11/21/2008 **Analyst:** BHW

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1120	963	86	1120	964	86	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1120	1010	90	1120	1030	92	2	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 318074

Lab Batch #: 740955 **Project ID:** SRS 2004-00061

Date Analyzed: 11/20/2008 **Date Prepared:** 11/20/2008 **Analyst:** LATCOR

QC- Sample ID: 318073-002 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300\300.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	ND	ND	NC	20	

Lab Batch #: 740809

Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** BEV

QC- Sample ID: 318049-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	1.79	1.64	9	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley PAGE 01 OF 01 Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: 2004-00061

Company Address: P. O. Box 301 Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 PO #: PAA - D. M. Bryant

Telephone No: (575) 441-2244 Fax No: (575) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: C. Bryant e-mail: cstanley@basinenv.com

(lab use only) ORDER #: 318074

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: GW - Groundwater S - Soil/Sol NP - Non-Potable Specify Oth	Analyze For: TPH: 418.1 8015M	TPH: TX 1005 TX 1006	Chloride (Cl, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B 8260 or BTEX 8260	HCl	N O R M	CHLORIDES EPA 300.1		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	CELL D VZ G 1 (3' - 4')			11/14/2008	1145		1	X								SOIL	X								X			X			X
	CELL D VZ G 2 (3' - 4')			11/14/2008	1200		1	X								SOIL	X								X			X			X
	CELL D VZ G 3 (3' - 4')			11/14/2008	1215		1	X								SOIL	X								X			X			X
	CELL D VZ G 4 (3' - 4')			11/14/2008	1230		1	X								SOIL	X								X			X			X
	CELL D VZ G 5 (3' - 4')			11/14/2008	1245		1	X								SOIL	X								X			X			X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Curt Stanley	11/18/08	1712			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jeanne Fitch	11-18-08	1712

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains / Basin Environmental

Date/ Time: 11-18-08 @ 1712

Lab ID #: 31806 14

Initials: JMF

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? / Label	(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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 318076

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Lea Station Land Farm

SRS 2004-00061

25-NOV-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B - Odessa/Midland, TX T104704400-08

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

25-NOV-08

Project Manager: **Daniel Bryant**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **318076**
Lea Station Land Farm
Project Address: Lea County, NM

Daniel 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 318076. 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. 318076 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

Sample Cross Reference 318076

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell E VZ G 1 (3'-4')	S	Nov-14-08 13:00		318076-001
Cell E VZ G 2 (3'-4')	S	Nov-14-08 13:15		318076-002
Cell E VZ G 3 (3'-4')	S	Nov-14-08 13:30		318076-003
Cell E VZ G 4 (3'-4')	S	Nov-14-08 13:45		318076-004

Certificate of Analysis Summary 318076

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: SRS 2004-00061
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Tue Nov-18-08 05:12 pm
Report Date: 25-NOV-08
Project Manager: Brent Barron, II

Analysis Requested		Lab Id:	318076-001		318076-002		318076-003		318076-004			
		Field Id:	Cell E VZ G 1 (3'-4')		Cell E VZ G 2 (3'-4')		Cell E VZ G 3 (3'-4')		Cell E VZ G 4 (3'-4')			
		Depth:										
		Matrix:	SOIL		SOIL		SOIL		SOIL			
		Sampled:	Nov-14-08 13:00		Nov-14-08 13:15		Nov-14-08 13:30		Nov-14-08 13:45			
BTEX by EPA 8021B		Extracted:	Nov-20-08 08:00		Nov-20-08 08:00		Nov-20-08 08:00		Nov-21-08 17:45			
		Analyzed:	Nov-20-08 20:18		Nov-20-08 20:40		Nov-20-08 21:02		Nov-24-08 00:07			
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene			ND	0.0011	ND	0.0010	ND	0.0011	ND	0.0011		
Toluene			ND	0.0022	ND	0.0021	ND	0.0022	ND	0.0022		
Ethylbenzene			ND	0.0011	ND	0.0010	ND	0.0011	ND	0.0011		
m,p-Xylenes			ND	0.0022	ND	0.0021	ND	0.0022	ND	0.0022		
o-Xylene			ND	0.0011	ND	0.0010	ND	0.0011	ND	0.0011		
Total Xylenes			ND	0.0033	ND	0.0031	ND	0.0033	ND	0.0022		
Total BTEX			ND	0.0077	ND	0.0072	ND	0.0077	ND	0.0011		
Inorganic Anions by EPA 300\300.1		Extracted:										
		Analyzed:	Nov-20-08 07:02		Nov-20-08 07:02		Nov-20-08 07:02		Nov-20-08 07:02			
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride			ND	5.44	ND	5.21	32.1	5.56	ND	5.40		
Percent Moisture		Extracted:										
		Analyzed:	Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00			
		Units/RL:	%	RL	%	RL	%	RL	%	RL		
Percent Moisture			8.14	1.00	4.02	1.00	10.04	1.00	7.43	1.00		
TPH by SW8015 Mod		Extracted:	Nov-21-08 14:00		Nov-21-08 15:00		Nov-21-08 15:00		Nov-21-08 15:00			
		Analyzed:	Nov-23-08 20:47		Nov-24-08 04:30		Nov-24-08 04:53		Nov-24-08 05:16			
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C12 Gasoline Range Hydrocarbons			ND	16.3	ND	15.6	ND	16.7	ND	16.2		
C12-C28 Diesel Range Hydrocarbons			ND	16.3	ND	15.6	ND	16.7	ND	16.2		
C28-C35 Oil Range Hydrocarbons			ND	16.3	ND	15.6	ND	16.7	ND	16.2		
Total TPH			ND	16.3	ND	15.6	ND	16.7	ND	16.2		

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318076, **Project ID:** SRS 2004-00061

Lab Batch #: 740971 **Sample:** 318071-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0314	0.0300	105	80-120	

Lab Batch #: 740971 **Sample:** 318071-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 740971 **Sample:** 318076-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 740971 **Sample:** 318076-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	80-120	
4-Bromofluorobenzene	0.0182	0.0300	61	80-120	**

Lab Batch #: 740971 **Sample:** 318076-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318076, **Project ID:** SRS 2004-00061

Lab Batch #: 740971 **Sample:** 519683-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 740971 **Sample:** 519683-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 740971 **Sample:** 519683-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 741149 **Sample:** 318076-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

Lab Batch #: 741149 **Sample:** 318423-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	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: Lea Station Land Farm

Work Orders : 318076, **Project ID:** SRS 2004-00061

Lab Batch #: 741149 **Sample:** 318423-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 741149 **Sample:** 519811-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0272	0.0300	91	80-120	
4-Bromofluorobenzene	0.0253	0.0300	84	80-120	

Lab Batch #: 741149 **Sample:** 519811-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	80-120	
4-Bromofluorobenzene	0.0243	0.0300	81	80-120	

Lab Batch #: 741149 **Sample:** 519811-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0266	0.0300	89	80-120	

Lab Batch #: 741130 **Sample:** 318074-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	61.3	50.0	123	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: Lea Station Land Farm

Work Orders : 318076, **Project ID:** SRS 2004-00061

Lab Batch #: 741130 **Sample:** 318074-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	128	100	128	70-135	
o-Terphenyl	61.2	50.0	122	70-135	

Lab Batch #: 741130 **Sample:** 318076-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	58.3	50.0	117	70-135	

Lab Batch #: 741130 **Sample:** 519805-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	62.7	50.0	125	70-135	

Lab Batch #: 741130 **Sample:** 519805-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	59.3	50.0	119	70-135	

Lab Batch #: 741130 **Sample:** 519805-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	130	100	130	70-135	
o-Terphenyl	61.6	50.0	123	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: Lea Station Land Farm

Work Orders : 318076, **Project ID:** SRS 2004-00061

Lab Batch #: 741354 **Sample:** 318076-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	57.5	50.0	115	70-135	

Lab Batch #: 741354 **Sample:** 318076-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	58.6	50.0	117	70-135	

Lab Batch #: 741354 **Sample:** 318076-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	59.2	50.0	118	70-135	

Lab Batch #: 741354 **Sample:** 318268-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	161	100	161	70-135	**
o-Terphenyl	76.8	50.0	154	70-135	**

Lab Batch #: 741354 **Sample:** 318268-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	177	100	177	70-135	**
o-Terphenyl	77.5	50.0	155	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: Lea Station Land Farm

Work Orders : 318076, **Project ID:** SRS 2004-00061

Lab Batch #: 741354 **Sample:** 519924-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	178	100	178	70-135	**
o-Terphenyl	83.5	50.0	167	70-135	**

Lab Batch #: 741354 **Sample:** 519924-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	146	100	146	70-135	**
o-Terphenyl	72.5	50.0	145	70-135	**

Lab Batch #: 741354 **Sample:** 519924-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	161	100	161	70-135	**
o-Terphenyl	76.6	50.0	153	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 318076 **Project ID:** SRS 2004-00061

Lab Batch #: 740955 **Sample:** 740955-1-BKS **Matrix:** Solid

Date Analyzed: 11/20/2008 **Date Prepared:** 11/20/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

Inorganic Anions by EPA 300\300.1 Analytes	BLANK /BLANK SPIKE RECOVERY STUDY					
	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	10.1	101	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318076 **Project ID:** SRS 2004-00061

Analyst: ASA **Date Prepared:** 11/20/2008 **Date Analyzed:** 11/20/2008

Lab Batch ID: 740971 **Sample:** 519683-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	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	0.0913	91	0.1	0.0932	93	2	70-130	35	
Toluene	ND	0.1000	0.0890	89	0.1	0.0909	91	2	70-130	35	
Ethylbenzene	ND	0.1000	0.0950	95	0.1	0.0966	97	2	71-129	35	
m,p-Xylenes	ND	0.2000	0.1932	97	0.2	0.1960	98	1	70-135	35	
o-Xylene	ND	0.1000	0.0921	92	0.1	0.0935	94	2	71-133	35	

Analyst: ASA **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/23/2008

Lab Batch ID: 741149 **Sample:** 519811-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	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	0.0971	97	0.1	0.0984	98	1	70-130	35	
Toluene	ND	0.1000	0.0901	90	0.1	0.0912	91	1	70-130	35	
Ethylbenzene	ND	0.1000	0.0870	87	0.1	0.0892	89	2	71-129	35	
m,p-Xylenes	ND	0.2000	0.1746	87	0.2	0.1796	90	3	70-135	35	
o-Xylene	ND	0.1000	0.0846	85	0.1	0.0873	87	3	71-133	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+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

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318076 **Project ID:** SRS 2004-00061

Analyst: BHW **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/23/2008

Lab Batch ID: 741130 **Sample:** 519805-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	910	91	1000	893	89	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	938	94	1000	935	94	0	70-135	35	

Analyst: BHW **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/24/2008

Lab Batch ID: 741354 **Sample:** 519924-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1200	120	1000	1110	111	8	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1120	112	1000	1170	117	4	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318076
Lab Batch #: 740955
Date Analyzed: 11/20/2008
QC- Sample ID: 318073-002 S
Reporting Units: mg/kg

Project ID: SRS 2004-00061
Date Prepared: 11/20/2008
Analyst: LATCOR
Batch #: 1
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	104	95.4	92	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 318076 **Project ID:** SRS 2004-00061

Lab Batch ID: 740971 **QC- Sample ID:** 318071-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/20/2008 **Date Prepared:** 11/20/2008 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	0.1035	0.0698	67	0.1035	0.0710	69	3	70-130	35	X
Toluene	ND	0.1035	0.0674	65	0.1035	0.0684	66	2	70-130	35	X
Ethylbenzene	ND	0.1035	0.0701	68	0.1035	0.0710	69	1	71-129	35	X
m,p-Xylenes	ND	0.2070	0.1425	69	0.2070	0.1439	70	1	70-135	35	X
o-Xylene	ND	0.1035	0.0672	65	0.1035	0.0678	66	2	71-133	35	X

Lab Batch ID: 741149 **QC- Sample ID:** 318423-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/24/2008 **Date Prepared:** 11/21/2008 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	0.1178	0.0776	66	0.1178	0.0789	67	2	70-130	35	X
Toluene	ND	0.1178	0.0707	60	0.1178	0.0734	62	3	70-130	35	X
Ethylbenzene	ND	0.1178	0.0669	57	0.1178	0.0685	58	2	71-129	35	X
m,p-Xylenes	ND	0.2355	0.1348	57	0.2355	0.1383	59	3	70-135	35	X
o-Xylene	ND	0.1178	0.0620	53	0.1178	0.0643	55	4	71-133	35	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 318076 **Project ID:** SRS 2004-00061

Lab Batch ID: 741130 **QC- Sample ID:** 318074-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/23/2008 **Date Prepared:** 11/21/2008 **Analyst:** BHW

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1120	963	86	1120	964	86	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1120	1010	90	1120	1030	92	2	70-135	35	

Lab Batch ID: 741354 **QC- Sample ID:** 318268-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/24/2008 **Date Prepared:** 11/21/2008 **Analyst:** BHW

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	1130	1270	112	1130	1340	119	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	30.5	1130	1330	115	1130	1280	111	4	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 318076

Lab Batch #: 740955 **Project ID:** SRS 2004-00061
Date Analyzed: 11/20/2008 **Date Prepared:** 11/20/2008 **Analyst:** LATCOR
QC- Sample ID: 318073-002 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300\300.1 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	ND	ND	NC	20	

Lab Batch #: 740809
Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** BEV
QC- Sample ID: 318049-001 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	1.79	1.64	9	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley PAGE 01 OF 01 Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: 2004-00061

Company Address: P. O. Box 301 Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 PO #: PAA - D.M. Bryant

Telephone No: (575) 441-2124 Fax No: (575) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: C Bryant e-mail: cstanley@basinenv.com

(lab use only) ORDER #: 318076

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW – Drinking Water SL – Sludge; GW – Groundwater S – Soil/Solid; NP – Non-Potable Specify Other	Analyze For: 8015B (8015M) TPH: 418.1 TPH TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B 5030 or UTLX 8260	RCI	NITRM	CHLORIDES EPA 300.1		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	CELL E VZ G 1 (3' - 4')			11/14/2008	1300		1	X							SOIL	X							X			X			X
	CELL E VZ G 2 (3' - 4')			11/14/2008	1315		1	X							SOIL	X							X			X			X
	CELL E VZ G 3 (3' - 4')			11/14/2008	1330		1	X							SOIL	X							X			X			X
	CELL E VZ G 4 (3' - 4')			11/14/2008	1345		1	X							SOIL	X							X			X			X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
C Bryant	11/18/08	1717			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Jeanne Fitch	Date 11 18 08	Time 1712

Laboratory Comments:

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

Temperature Upon Receipt: 3.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains / Basin Environmental

Date/ Time: 11-18-08 @ 1712

Lab ID #: 31801[illegible]

Initials: JMF

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? / label	(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	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(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 318075

for

PLAINS ALL AMERICAN EH&S

Project Manager: Daniel Bryant

Lea Station Land Farm

SRS 2004-00061

25-NOV-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B - Odessa/Midland, TX T104704400-08

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

25-NOV-08

Project Manager: **Daniel Bryant**
PLAINS ALL AMERICAN EH&S
1301 S. COUNTY ROAD 1150
Midland, TX 79706

Reference: XENCO Report No: **318075**
Lea Station Land Farm
Project Address: Lea County, NM

Daniel 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 318075. 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. 318075 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

Sample Cross Reference 318075

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Station Land Farm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell F VZ G 1 (3'-4')	S	Nov-14-08 14:15		318075-001
Cell F VZ G 2 (3'-4')	S	Nov-14-08 14:30		318075-002
Cell F VZ G 3 (3'-4')	S	Nov-14-08 14:45		318075-003
Cell F VZ G 4 (3'-4')	S	Nov-14-08 15:00		318075-004
Cell F VZ G 5 (3'-4')	S	Nov-14-08 15:15		318075-005

Certificate of Analysis Summary 318075

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Station Land Farm

Project Id: SRS 2004-00061
Contact: Daniel Bryant
Project Location: Lea County, NM

Date Received in Lab: Tue Nov-18-08 05:12 pm
Report Date: 25-NOV-08
Project Manager: Brent Barron, II

Analysis Requested		318075-001		318075-002		318075-003		318075-004		318075-005	
	Field Id:	Cell F VZ G 1 (3'-4')		Cell F VZ G 2 (3'-4')		Cell F VZ G 3 (3'-4')		Cell F VZ G 4 (3'-4')		Cell F VZ G 5 (3'-4')	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-14-08 14:15		Nov-14-08 14:30		Nov-14-08 14:45		Nov-14-08 15:00		Nov-14-08 15:15	
BTEX by EPA 8021B	Extracted:	Nov-21-08 08:00		Nov-21-08 08:00		Nov-21-08 08:00		Nov-24-08 08:15		Nov-21-08 08:00	
	Analyzed:	Nov-21-08 17:23		Nov-22-08 13:33		Nov-22-08 13:55		Nov-24-08 13:21		Nov-22-08 15:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0010	ND	0.0011	ND	0.0010	ND	0.0010
Toluene		ND	0.0021	ND	0.0020	ND	0.0022	ND	0.0020	ND	0.0020
Ethylbenzene		ND	0.0011	ND	0.0010	ND	0.0011	ND	0.0010	ND	0.0010
m,p-Xylenes		ND	0.0021	ND	0.0020	ND	0.0022	ND	0.0020	ND	0.0020
o-Xylene		ND	0.0011	ND	0.0010	ND	0.0011	ND	0.0010	ND	0.0010
Total Xylenes		ND	0.0021	ND	0.0020	ND	0.0022	ND	0.0020	ND	0.0020
Total BTEX		ND	0.0011	ND	0.0010	ND	0.0011	ND	0.0010	ND	0.0010
Inorganic Anions by EPA 300\300.1	Extracted:										
	Analyzed:	Nov-20-08 07:02		Nov-20-08 07:02		Nov-20-08 07:02		Nov-20-08 07:02		Nov-20-08 07:02	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		ND	5.29	ND	5.10	ND	5.52	ND	5.04	ND	5.02
Percent Moisture	Extracted:										
	Analyzed:	Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00		Nov-19-08 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		5.51	1.00	2.01	1.00	9.43	1.00	ND	1.00	ND	1.00
TPH by SW8015 Mod	Extracted:	Nov-21-08 14:00		Nov-21-08 14:00		Nov-21-08 14:00		Nov-21-08 14:00		Nov-21-08 14:00	
	Analyzed:	Nov-23-08 18:46		Nov-23-08 19:10		Nov-23-08 19:34		Nov-23-08 19:58		Nov-23-08 20:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.9	ND	15.3	ND	16.6	ND	15.1	ND	15.1
C12-C28 Diesel Range Hydrocarbons		ND	15.9	ND	15.3	ND	16.6	ND	15.1	ND	15.1
C28-C35 Oil Range Hydrocarbons		ND	15.9	ND	15.3	ND	16.6	ND	15.1	ND	15.1
Total TPH		ND	15.9	ND	15.3	ND	16.6	ND	15.1	ND	15.1

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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318075,

Project ID: SRS 2004-00061

Lab Batch #: 741216 **Sample:** 318074-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

Lab Batch #: 741216 **Sample:** 318074-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 741216 **Sample:** 318075-001 / SMP **Batch:** 1 **Matrix:** Soil

Units mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	80-120	
4-Bromofluorobenzene	0.0275	0.0300	92	80-120	

Lab Batch #: 741216 **Sample:** 318075-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	

Lab Batch #: 741216 **Sample:** 318075-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	80-120	
4-Bromofluorobenzene	0.0268	0.0300	89	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: Lea Station Land Farm

Work Orders : 318075, **Project ID:** SRS 2004-00061

Lab Batch #: 741216 **Sample:** 318075-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	80-120	
4-Bromofluorobenzene	0.0265	0.0300	88	80-120	

Lab Batch #: 741216 **Sample:** 519846-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 741216 **Sample:** 519846-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0330	0.0300	110	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 741216 **Sample:** 519846-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0265	0.0300	88	80-120	

Lab Batch #: 741347 **Sample:** 318075-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	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.

Form 2 - Surrogate Recoveries

Project Name: Lea Station Land Farm

Work Orders : 318075,

Project ID: SRS 2004-00061

Lab Batch #: 741347 **Sample:** 318075-004 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 741347 **Sample:** 318075-004 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 741347 **Sample:** 519915-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

Lab Batch #: 741347 **Sample:** 519915-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0340	0.0300	113	80-120	
4-Bromofluorobenzene	0.0278	0.0300	93	80-120	

Lab Batch #: 741347 **Sample:** 519915-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0315	0.0300	105	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: Lea Station Land Farm

Work Orders : 318075, **Project ID:** SRS 2004-00061

Lab Batch #: 741130 **Sample:** 318074-005 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	61.3	50.0	123	70-135	

Lab Batch #: 741130 **Sample:** 318074-005 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	128	100	128	70-135	
o-Terphenyl	61.2	50.0	122	70-135	

Lab Batch #: 741130 **Sample:** 318075-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	59.5	50.0	119	70-135	

Lab Batch #: 741130 **Sample:** 318075-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	58.6	50.0	117	70-135	

Lab Batch #: 741130 **Sample:** 318075-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	59.2	50.0	118	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: Lea Station Land Farm

Work Orders : 318075,

Project ID: SRS 2004-00061

Lab Batch #: 741130 **Sample:** 318075-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	56.4	50.0	113	70-135	

Lab Batch #: 741130 **Sample:** 318075-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	58.8	50.0	118	70-135	

Lab Batch #: 741130 **Sample:** 519805-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	62.7	50.0	125	70-135	

Lab Batch #: 741130 **Sample:** 519805-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	59.3	50.0	119	70-135	

Lab Batch #: 741130 **Sample:** 519805-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	130	100	130	70-135	
o-Terphenyl	61.6	50.0	123	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.

Blank Spike Recovery

Project Name: Lea Station Land Farm

Work Order #: 318075 **Project ID:** SRS 2004-00061

Lab Batch #: 740955 **Sample:** 740955-1-BKS **Matrix:** Solid

Date Analyzed: 11/20/2008 **Date Prepared:** 11/20/2008 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

Inorganic Anions by EPA 300\300.1	BLANK /BLANK SPIKE RECOVERY STUDY					
Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	10.1	101	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318075 **Project ID:** SRS 2004-00061

Analyst: ASA **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/21/2008

Lab Batch ID: 741216 **Sample:** 519846-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	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	0.1041	104	0.1	0.1041	104	0	70-130	35	
Toluene	ND	0.1000	0.0976	98	0.1	0.0976	98	0	70-130	35	
Ethylbenzene	ND	0.1000	0.0968	97	0.1	0.0968	97	0	71-129	35	
m,p-Xylenes	ND	0.2000	0.1949	97	0.2	0.1949	97	0	70-135	35	
o-Xylene	ND	0.1000	0.0918	92	0.1	0.0918	92	0	71-133	35	

Analyst: ASA **Date Prepared:** 11/24/2008 **Date Analyzed:** 11/24/2008

Lab Batch ID: 741347 **Sample:** 519915-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	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	0.1064	106	0.1	0.1062	106	0	70-130	35	
Toluene	ND	0.1000	0.1019	102	0.1	0.1040	104	2	70-130	35	
Ethylbenzene	ND	0.1000	0.1011	101	0.1	0.1066	107	5	71-129	35	
m,p-Xylenes	ND	0.2000	0.2056	103	0.2	0.2181	109	6	70-135	35	
o-Xylene	ND	0.1000	0.0969	97	0.1	0.1025	103	6	71-133	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+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

BS / BSD Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318075 **Project ID:** SRS 2004-00061

Analyst: BHW **Date Prepared:** 11/21/2008 **Date Analyzed:** 11/23/2008

Lab Batch ID: 741130 **Sample:** 519805-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	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
C6-C12 Gasoline Range Hydrocarbons	ND	1000	910	91	1000	893	89	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	938	94	1000	935	94	0	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+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 Recoveries

Project Name: Lea Station Land Farm

Work Order #: 318075

Lab Batch #: 740955

Project ID: SRS 2004-00061

Date Analyzed: 11/20/2008

Date Prepared: 11/20/2008

Analyst: LATCOR

QC- Sample ID: 318073-002 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	104	95.4	92	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference [E] = 200*(C-A)/(C+B)

All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 318075 **Project ID:** SRS 2004-00061

Lab Batch ID: 741216 **QC- Sample ID:** 318074-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/22/2008 **Date Prepared:** 11/21/2008 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	0.1107	0.1067	96	0.1107	0.1110	100	4	70-130	35	
Toluene	ND	0.1107	0.0986	89	0.1107	0.1030	93	4	70-130	35	
Ethylbenzene	ND	0.1107	0.0942	85	0.1107	0.1016	92	8	71-129	35	
m,p-Xylenes	ND	0.2213	0.1907	86	0.2213	0.2056	93	8	70-135	35	
o-Xylene	ND	0.1107	0.0931	84	0.1107	0.0982	89	6	71-133	35	

Lab Batch ID: 741347 **QC- Sample ID:** 318075-004 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/24/2008 **Date Prepared:** 11/24/2008 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	0.1008	0.0860	85	0.1008	0.0909	90	6	70-130	35	
Toluene	ND	0.1008	0.0809	80	0.1008	0.0854	85	6	70-130	35	
Ethylbenzene	ND	0.1008	0.0768	76	0.1008	0.0847	84	10	71-129	35	
m,p-Xylenes	ND	0.2017	0.1606	80	0.2017	0.1728	86	7	70-135	35	
o-Xylene	ND	0.1008	0.0770	76	0.1008	0.0823	82	8	71-133	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Lea Station Land Farm

Work Order # : 318075 **Project ID:** SRS 2004-00061

Lab Batch ID: 741130 **QC- Sample ID:** 318074-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/23/2008 **Date Prepared:** 11/21/2008 **Analyst:** BHW

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	1120	963	86	1120	964	86	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1120	1010	90	1120	1030	92	2	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Station Land Farm

Work Order #: 318075

Lab Batch #: 740955 **Project ID:** SRS 2004-00061
Date Analyzed: 11/20/2008 **Date Prepared:** 11/20/2008 **Analyst:** LATCOR
QC- Sample ID: 318073-002 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300\300.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	ND	ND	NC	20	

Lab Batch #: 740809
Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** BEV
QC- Sample ID: 318049-001 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	1.79	1.64	9	20	

Lab Batch #: 740815
Date Analyzed: 11/19/2008 **Date Prepared:** 11/19/2008 **Analyst:** BEV
QC- Sample ID: 318075-002 D **Batch #:** 1 **Matrix:** Soil
Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	2.01	2.49	21	20	F

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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: Curt Stanley — PAGE 01 OF 01 — Project Name: LEA STATION LAND FARM

Company Name: Basin Environmental Service Technologies, LLC — Project #: SRS: 2004-00061

Company Address: P. O. Box 301 — Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 — PO #: PAA - D.M. Bryant

Telephone No: (575) 441-2244 — Fax No: (575) 396-1429 — Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: C. Bryant — e-mail: cstanley@basinenv.com

(lab use only) ORDER #: 318075

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW - Drinking Water, GW - Groundwater, WW - Non Potable, SL - Sludge, S - Soil/Solid, Specify Other	Analyze For: TCLP: 8015M	TPH: 418.1	TPH: TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	CHLORIDES EPA 300.1		TURN AROUND TIME: RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	CELL F VZ G 1 (3' - 4')			11/14/2008	1415		1	X								SOIL	X									X			X			X
	CELL F VZ G 2 (3' - 4')			11/14/2008	1430		1	X								SOIL	X									X			X			X
	CELL F VZ G 3 (3' - 4')			11/14/2008	1445		1	X								SOIL	X									X			X			X
	CELL F VZ G 4 (3' - 4')			11/14/2008	1500		1	X								SOIL	X									X			X			X
	CELL F VZ G 5 (3' - 4')			11/14/2008	1515		1	X								SOIL	X									X			X			X

Special Instructions:

Relinquished by	Date	Time	Received by:	Date	Time
[signature]	11/18/08	1712			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Jeanne Fitch	Date 11-18-08	Time 1712

Laboratory Comments:

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

Temperature Upon Receipt: 3.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Plains / Basin Environmental

Date/ Time: 11-18 08 @ 1712

Lab ID #: 31[illegible]

Initials: JMF

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? / Label	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	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	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

Lea Station Landfarm Cell A

Lea Station Landfarm Cell B

Lea Station Landfarm Cell C

Lea Station Landfarm Cell D

Lea Station Landfarm Cell E

Lea Station Landfarm Cell F