Basin Environmental Consulting, LLC

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

Effective Solutions

RECEIVED
MAR 16 2010
NMOCD ARTESIA

REMEDIATION SUMMARY

AND

SITE CLOSURE REQUEST

PLAINS PIPELINE, L.P. (231735)
Loco Hills Station Bypass Line
Eddy County, New Mexico
Plains SRS# 2009-251
UNIT "G" (SW/NE), Section 23, Township 17 South, Range 31 East
Latitude 32° 49' 23.4" North, Longitude 103° 50' 15.6" West

Prepared For:

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

Prepared By:
Basin Environmental Consulting, LLC

February 2010

Curt D. Stanley
Project Manager

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

1.0 INTRODUCTION

Basin Environmental Consulting, LLC (Basin), on behalf of Plains Pipeline, L.P. (Plains), has prepared this Remediation Summary and Site Closure Request for the release site known as Loco Hills Station Bypass Line (SRS# 2009-251). The site is located in Unit Letter "G" (SW ¼ NE ¼), Section 23, Township 17 South, Range 31 East, in Eddy County, New Mexico. The property is owned by the United States Department of the Interior, Bureau of Land Management (BLM). The site latitude is 32° 49' 23.4" North, and the longitude is 103° 50' 15.6" West. The Site Location and Site and Sample Location Map are provided as Figure 1 and Figure 2, respectively. The Release Notification and Corrective Action (NMOCD Form C-141) indicated approximately thirty-five (35) barrels of crude oil was released from the Plains pipeline and twenty-five (25) barrels were recovered during the initial response activities, resulting in a net loss of ten (10) barrels of crude oil. The Release Notification and Corrective Action is provided as Appendix C.

The release occurred on November 19, 2009, on a four (4) inch bypass line at the Plains Loco Hills Station facility. Plains operations personnel mitigated the crude oil release by installing a temporary clamp on the pipeline. Crude oil released from the pipeline was recovered using a vacuum truck and the impacted soil excavated during initial response activities was stockpiled on a 6-mil poly liner adjacent to the excavation. The initial visually stained area covered an area measuring approximately thirty (30) feet in width and forty (40) feet in length.

As required by the BLM, a Cultural Resource Survey was conducted by Boone Archaeological Services of Carlsbad, New Mexico. The results of the survey indicated no cultural resources were affected by the release or the subsequent remediation activities. The results of the Cultural Resource Survey are provided as Appendix A.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Office of the State Engineer (NMOSE) database indicated no registered water wells were located in the above referenced section. A depth to groundwater reference map utilized by the New Mexico Oil Conservation Division (NMOCD) indicated groundwater should be encountered at approximately two hundred fifty (250) feet below ground surface (bgs). The depth to groundwater at the Loco Hills Station Bypass Line release site results in a score of zero (0) points being assigned to the site, based on the NMOCD depth to groundwater criteria.

The water well database, maintained by the NMOSE, indicated there are no registered water wells located less than 1,000 feet from the release, resulting in zero (0) points being assigned to this site as a result of this criteria.

There are no surface water bodies located within 1,000 feet of the site. Based on the NMOCD ranking system zero (0) points will be assigned to the site as a result of the criteria.

The NMOCD guidelines indicate the Loco Hills Station Bypass Line release site has a ranking score of zero (0). Based on this score, the soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 5,000 mg/Kg (ppm)

3.0 SUMMARY OF FIELD ACTIVITIES

On November 24 and 25, 2009, hydrocarbon impacted soil was excavated at the release site. Approximately 150 cubic yards (cy) of impacted soil was stockpiled adjacent to the excavation pending final disposition. The final dimensions of the excavation were approximately eighteen (18) feet in length and ten (10) feet in width and approximately ten (10) feet bgs in depth. An irregular shaped flowpath extended to the west and south of the release point, measuring approximately ninety (90) feet in length and two (2) to twelve (12) feet in width and one (1) to two (2) feet in depth.

On November 25, 2009, four (4) soil samples (NSW @ 8', ESW @ 8', WSW @ 8' and SSW @ 8') were collected from the sidewalls of the excavation and submitted to the laboratory for analysis. The soil samples were analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX) using method EPA 8021b and concentrations of total petroleum hydrocarbon (TPH) using method SW-8015 modified. The laboratory analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory method detection limit (MDL) in each of the four (4) soil samples. TPH concentrations ranged from less than the laboratory MDL in soil samples NSW @ 8', WSW @ 8' and SSW @ 8' to 45.2 mg/Kg in soil sample ESW @ 8'. A summary of the analytical results are included in Table 1, Concentrations of BTEX and TPH in Soil. Laboratory results are included in Appendix B and soil sample locations are depicted on Figure 2, Site and Sample Location Map. Photographs of the site are provided in Appendix C.

On November 25, 2009, an excavation floor soil sample (Floor @ 10') and two (2) release flowpath soil samples (WFP and SFP) were collected and submitted to the laboratory for analysis. The laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL in each of the three (3) soil samples.

A five-point composite baseline stockpile soil sample (Baseline SP) was collected and analyzed to determine the final disposition of the excavated soil. The analytical results indicated the benzene concentration was less than the laboratory MDL of 0.0106 mg/Kg. The BTEX and TPH concentrations were 8.594 mg/Kg and 2,773 mg/Kg, respectively.

On December 9, 2009, in a meeting with Plains, Basin and NMOCD representatives, Plains requested NMOCD approval to backfill the excavation with the on-site stockpiled soil. The NMOCD representative requested Plains blend the stockpile and resample the blended soil prior to granting permission to backfill the excavation.

On December 11, 2009, the stockpile was mechanically blended, as requested by the NMOCD. On December 22, 2009, a five-point composite stockpile soil was collected and submitted to the laboratory. The analytical results indicated the benzene concentration was less than the

laboratory MDL of 0.001 mg/Kg, the BTEX concentration was 0.3007 mg/Kg and the TPH concentration was 1,139 mg/Kg.

On January 4, 2010, in a meeting with Basin and NMOCD representatives, Plains requested NMOCD approval to backfill the excavation with the on-site stockpiled soil. The NMOCD approved the backfilling activities and on January 12, 2009, the excavation was backfilled with the on-site soil and compacted with the aid of fresh water transported to the site. Following the backfill activities the site was contoured to fit the surrounding topography.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Xenco Laboratories, Inc. in Odessa, Texas for BTEX and/or TPH analyses using the methods described below. Soil samples were analyzed for BTEX and/or TPH within fourteen days following the collection date.

The soil samples were analyzed as follows:

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

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

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

5.0 SITE CLOSURE REQUEST

Based on the analytical results of confirmation soil samples, Basin recommends Plains provide the NMOCD Artesia District Office and the BLM Carlsbad District Office, a copy of this Remediation Summary and Site Closure Request and request the NMOCD and BLM grant site closure to the Loco Hills Station Bypass Line release site.

6.0 LIMITATIONS

Basin Environmental Consulting, LLC has prepared this Remediation Summary and Site Closure Proposal 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 Pipeline, 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 Pipeline, L.P.

7.0 DISTRIBUTION:

Copy 1: Mike Bratcher
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 2)
1301 W. Grand Avenue
Artesia, New Mexico 88210

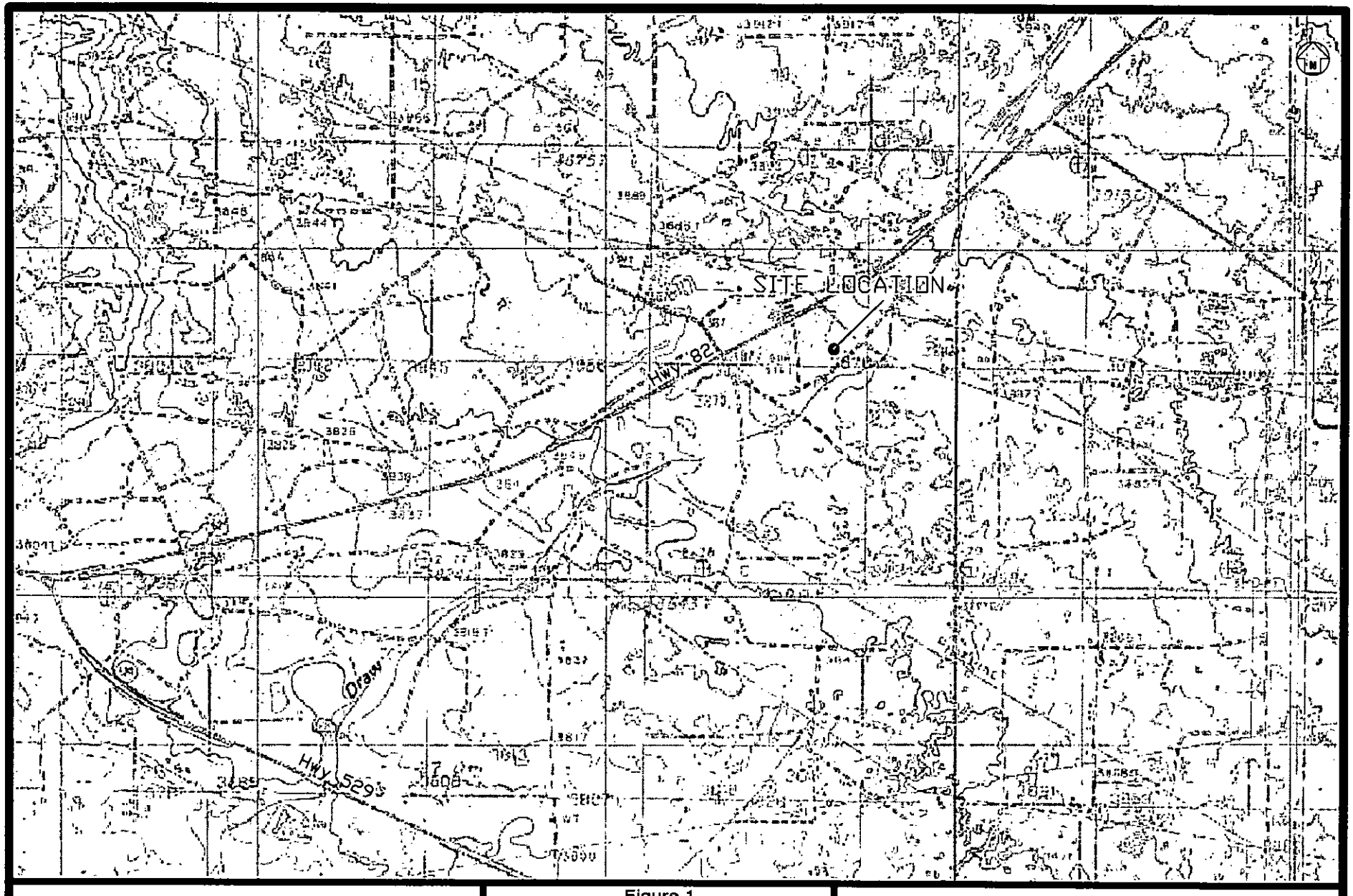
Copy 2: James Amos
U.S. Department of the Interior
Bureau of Land Management
620 East Greene Street
P.O. Box 1778
Carlsbad, New Mexico 88220

Copy 3: Jeff Dann
Plains Pipeline, L.P.
333 Clay Street, Suite 1600
Houston, Texas 77002
jpdann@paalp.com

Copy 4: Jason Henry
Plains Pipeline, L.P.
2530 State Highway 214
Denver City, Texas 79323
jhenry@paalp.com

Copy 5: Curt D. Stanley
Basin Environmental Consulting, LLC
P.O. Box 381
Lovington, New Mexico 88260
cdstanley@basin-consulting.com

Figures



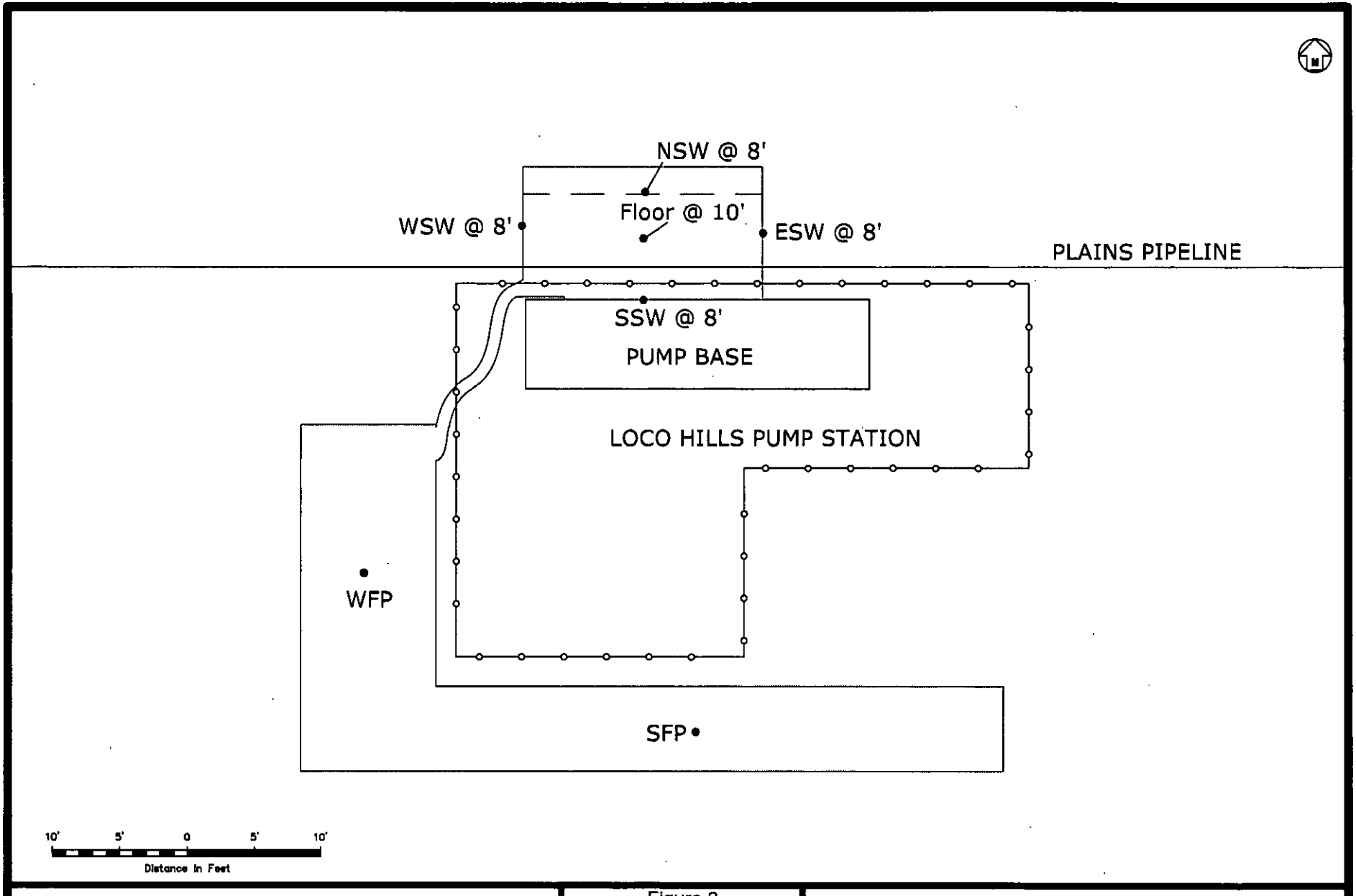
2000 1000 0 1000 2000

Distance in Feet

Figure 1
Site Location Map
Plains Marketing, L.P.
Loco Hills Station Bypass Line
Eddy County, New Mexico
SRS # 2009-251

Basin Environmental Consulting

Prep By: CDS	Checked By: CDS
February 15, 2010	Scale 1"=3000'



Legend:

- Excavation Extents
- Pipeline
- Fence

Figure 2
Site Map
Plains Pipeline, L.P.
Loco Hills Station
Bypass Line
Eddy County, New Mexico
SRS # 2009-251

Basin Environmental Consulting

Prep By: CDS	Checked By: CDS
September 8, 2008	1" = 10 feet

Tables

TABLE 1

CONCENTRATIONS OF BTEX AND TPH IN SOIL

PLAINS PIPELINE, L.P.
LOCO HILLS STATION BYPASS LINE
EDDY COUNTY, NEW MEXICO
SRS: 2009-251

SAMPLE LOCATION	SAMPLE DEPTH (below ground surface)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M			
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENE (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	TPH GRO C_6 - C_{12} (mg/Kg)	TPH DRO C_{12} - C_{28} (mg/Kg)	TPH ORO C_{28} - C_{35} (mg/Kg)	TOTAL TPH C6 - C35 (mg/Kg)
NSW @ 8'	8 Feet	11/25/09	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.0	<16.0	<16.0	<16.0
ESW @ 8'	8 Feet	11/25/09	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.1	45.2	<16.1	45.2
WSW @ 8'	8 Feet	11/25/09	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9
SSW @ 8'	8 Feet	11/25/09	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.5	<15.5	<15.5	<15.5
Floor @ 10'	10 Feet	11/25/09	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.6	<15.6	<15.6	<15.6
WFP	6 Inches	11/25/09	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.3	<15.3	<15.3	<15.3
SFP	6 Inches	11/25/09	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	<15.9	<15.9	<15.9
Base line SP	N/A	11/25/09	N/A	<0.0106	0.2955	2.464	3.955	1.879	8.594	873	1,900	<159	2,773
Blended	N/A	12/22/09	N/A	<0.0010	<0.0021	0.0130	0.1697	0.118	0.3007	279	802	58.1	1,139
NMOCD REGULATORY STANDARD				10					50				5,000

Appendices

Appendix A
Cultural Resource Survey

NMCRIS INVESTIGATION ABSTRACT FORM (NIAF)

1. NMCRIS Activity No.: 115951	2a. Lead (Sponsoring) Agency: BLM-CFO	2b. Other Permitting Agency(ies):	3. Lead Agency Report No.:

Title of Report: **An Archaeological Survey of a work area at the Loco Hills Station Bypass Line**

Author(s) Jeffrey Pangburn

5. Type of Report ☒ Negative ☐ Positive

6. Investigation Type
☐ Research Design ☒ Survey/Inventory ☐ Test Excavation ☐ Excavation ☐ Collections/Non-Field Study
☐ Overview/Lit Review ☐ Monitoring ☐ Ethnographic study ☐ Site specific visit ☐ Other

7. Description of Undertaking (what does the project entail?): On 7 December 2009 Jeffrey Pangburn, of Boone Archaeological Services, conducted a class III survey of a work area at the Loco Hills Station Bypass Line. The project was conducted at the request of Plains Pipeline LP and is needed to allow for clean up of an oil field relared spill. The project consists of a 300' x 300' survey area for the work area the impact area is unknown but estimated to be 100' x 100'. The work area will be accessed by existing bladed and caliche capped lease roads. The project is within a coppice dune field and portions of the proposed project area are impacted by existing bladed and caliche capped lease roads, overhead electric lines, pipelines, and various oil field installations. The survey located no cultural materials and is recommended to proceed as it is currently delineated. The project area is plotted on the attached maps. Location plots for the project were obtained by utilizing a hand held GPS unit. The client, prior to fieldwork, delineated the project with an orange barricade fence.

8. . Dates of Investigation: 7 Dec 2009	9. Report Date: 8 Dec 2009
10. Performing Agency/Consultant: Boone Archaeological Services, LLC 2030 North Canal Carlsbad NM 88220 Principal Investigator: Danny Boone Field Supervisor: Jeffrey Pangburn Field Personnel Names:	11. Performing Agency/Consultant Report No.: BAS 12-09-01 12. Applicable Cultural Resource Permit No(s): BLM 190-2920-09-L STATE: NM-09-157-S
13. Client/Customer (project proponent): **Plains Pipeline, LP.** Contact: Camille Bryant Address: **P.O. Box 3119** **Midland TX 79702** Phone: **(432) 686-1767**	14. Client/Customer Project No.: SRS#2009-251

15. Land Ownership Status *(Must be indicated on project map)*:

Land Owner	Acres Surveyed	Acres in APE
BLM	2.07 (+/-)	0.23 (+/-)
TOTALS	2.07 (+/-)	0.23 (+/-)

16 Records Search(es):

Date(s) of ARMS File Review 7 Dec 2009	Name of Reviewer(s) Jeffrey Pangburn	
Date(s) of NR/SR File Review	Name of Reviewer(s)	
Date(s) of Other Agency File Review 7 Dec 2009	Name of Reviewer(s) Jeffrey Pangburn	Agency BLM-CFO

Findings: A review of the BLM and ARMS data bases located LA: 79570 and 100787 within a quarter mile of the current undertaking.

17. Survey Data:

a. Source Graphics ☒ NAD 27 ☐ NAD 83

☒ USGS 7.5' (1:24,000) topo map ☐ Other topo map, Scale:

☒ GPS Unit Accuracy ☐<1.0m ☒ 1-10m ☐ 10-100m ☐>100m

b. USGS 7.5' Topographic Map Name | USGS Quad Code

MALJAMAR, New Mexico (Prov. Ed. 1985)	32103-G7

c. County: Eddy, New Mexico

17. Survey Data (continued):

d. Nearest City or Town: Maljamar, New Mexico

e. Legal Description:

Township (N/S)	Range (E/W)	Section	¼ ¼ ¼
17 S	31 E	23 (anchored in the southwest corner)	SW NE,

Projected legal description? Yes ☐ No ☒ Unplatted ☒

f. Other Description (e.g. well pad footages, mile markers, plats, land grant name, etc.):

18. Survey Field Methods:

Intensity: ☒ 100% coverage ☐ <100% coverage

Configuration: ☒ block survey units ☐ linear survey units (l x w): ☐ other survey units (specify):

Scope: ☒ non-selective (all sites recorded) ☐ selective/thematic (selected sites recorded)

Coverage Method: ☒ systematic pedestrian coverage ☐ other method (describe)

Survey Interval (m): 15 Crew Size: 1 Fieldwork Dates: 7 Dec 2009

Survey Person Hours: 2 Recording Person Hours: 0 Total Hours: 2

Additional Narrative:

19. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.):

Topography: Relatively Flat

Vegetative community: Mesquite, yucca, thistle drop seed grass and various other desert grasses and forbes

NRCS: Kermit-Berino association: Sandy, deep soils from wind-worked mixed sand deposits

Elevation: 3880'(+/-)

20.a. Percent Ground Visibility: 95% b. Condition of Survey Area (grazed, bladed, undisturbed, etc.): Developed Oil field

21. CULTURAL RESOURCE FINDINGS ☐ Yes, See Page 3 ☒No, Discuss Why: Unknown

22. Required Attachments (check all appropriate boxes):

☒ USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn
☒ Copy of NMCRIS Mapserver Map Check
☐ LA Site Forms - new sites (*with sketch map & topographic map*)
☐ LA Site Forms (update) - previously recorded & un-relocated sites (*first 2 pages minimum*)
☐ Historic Cultural Property Inventory Forms
☐ List and Description of Isolates, if applicable
☐ List and Description of Collections, if applicable

23. Other Attachments:

☐ Photographs and Log
☐ Other Attachments
(Describe):

24. I certify the information provided above is correct and accurate and meets all applicable agency standards.

Crew Chief/Responsible Archaeologist: Jeffrey Pangburn

Signature _____ Date: 8 Dec 2009 Title (if not PI): Field Supervisor

25. Reviewing Agency: Reviewer's Name/Date Accepted ( ) Rejected ( ) Tribal Consultation (if applicable): ☐ Yes ☐No	26. SHPO Reviewer's Name/Date: HPD Log #: SHPO File Location: Date sent to ARMS:

CULTURAL RESOURCE FINDINGS

[fill in appropriate section(s)]

1. NMCRIS Activity No.: 115951	2. Lead (Sponsoring) Agency: BLM-CFO	3. Lead Agency Report No.:

SURVEY RESULTS:

Sites discovered and registered: 0
Sites discovered and NOT registered: 0
Previously recorded sites revisited *(site update form required)*: 0
Previously recorded sites not relocated *(site update form required)*: 0
TOTAL SITES VISITED: 0
Total isolates recorded: 0 Non-selective isolate recording? ☐
Total structures recorded *(new and previously recorded, including acequias)*: 0

MANAGEMENT SUMMARY: Archaeological clearance is recommended, as the project is currently delineated, for the proposed work area at the Loco Hills Station Bypass Line to clean up an oil spill for Plains Pipeline LP. Should cultural material be encountered, at any time, all work should cease and a BLM-CFO staff archaeologist notified immediately.

IF REPORT IS NEGATIVE YOU ARE DONE AT THIS POINT.

SURVEY LA NUMBER LOG
Sites Discovered:

LA No.	Field/Agency No.	Eligible? (Y/N, applicable criteria)

Previously recorded revisited sites:

LA No.	Field/Agency No.	Eligible? (Y/N, applicable criteria)

MONITORING LA NUMBER LOG *(site form required)*
Sites Discovered *(site form required)* : Previously recorded sites *(Site update form required)*:

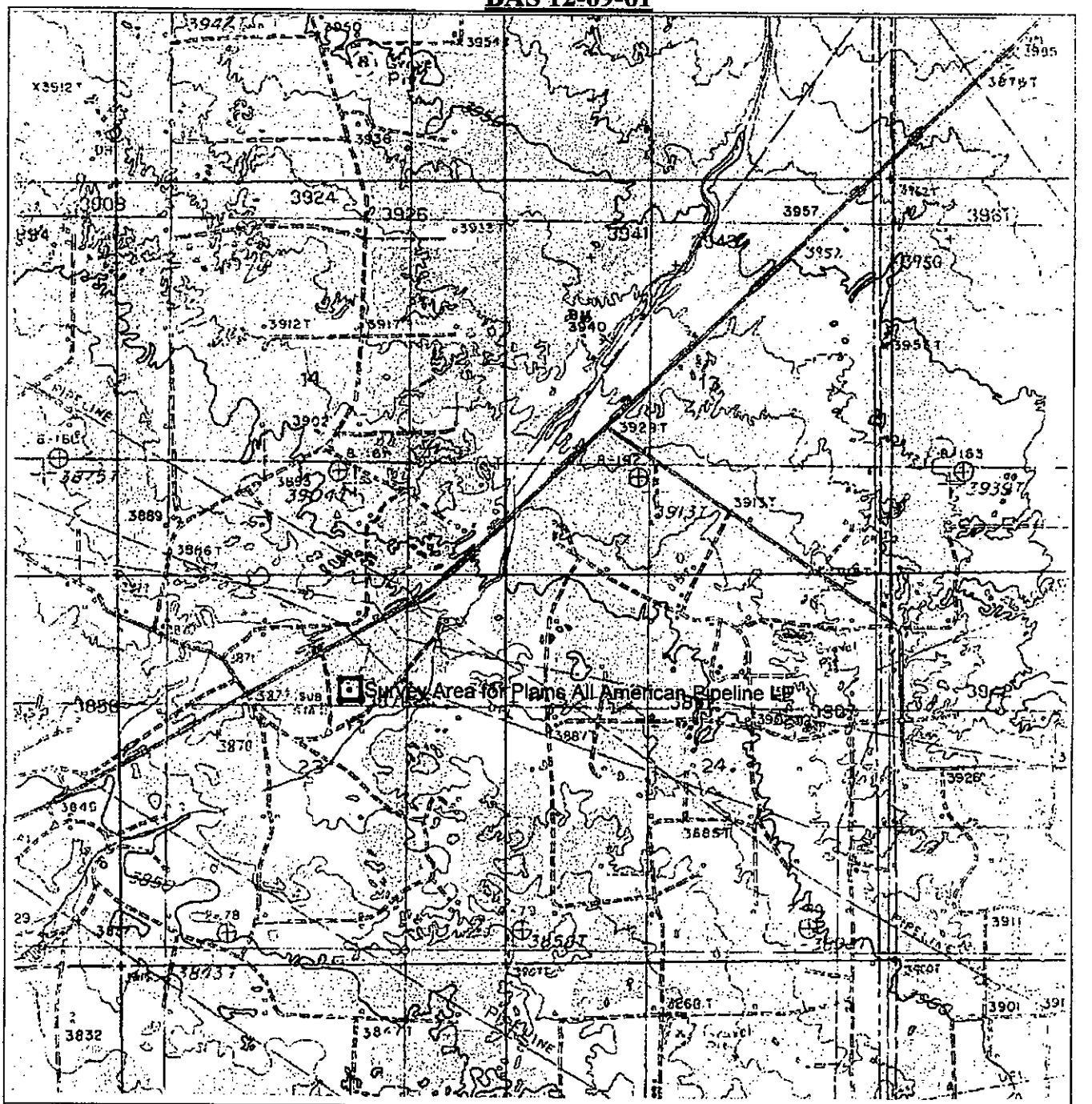
LA No.	Field/Agency No.	LA No.	Field/Agency No.

Areas outside known nearby site boundaries monitored? Yes ☐, No ☐ If no explain why:

TESTING & EXCAVATION LA NUMBER LOG *(site form required)*

Tested LA number(s)	Excavated LA number(s)

Project Map
BAS 12-09-01



A location map for a proposed work area to clean up an oil spill for Plians All Amarican LP. The project is located in the T 17S, R 31E, Section 23 SW ¼ NE ¼. Eddy County, New Mexico. USGS 7.5' minute series Quadrangle MALJAMAR, New Mexico (Prov. Ed. 1985) 32103-G7

SCALE 1:24000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

Appendix B
Laboratory Analytical Reports

Analytical Report 353698

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Loco Hills Station By Pass Line

2009-251

08-DEC-09

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALII), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)

08-DEC-09

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

Reference: XENCO Report No: **353698**
Loco Hills Station By Pass Line
Project Address: Eddy County, NM

Jason Henry:

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 353698. 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. 353698 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

XENCO Laboratories

Sample Cross Reference 353698

PLAINS ALL AMERICAN EH&S, Midland, TX

Loco Hills Station By Pass Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NSW @ 8'	S	Nov-25-09 14:30		353698-001
ESW @ 8'	S	Nov-25-09 14:35		353698-002
WSW @ 8'	S	Nov-25-09 14:40		353698-003
SSW @ 8'	S	Nov-25-09 14:45		353698-004
Floor @ 10'	S	Nov-25-09 14:50		353698-005
WFP	S	Nov-25-09 14:55		353698-006
SFP	S	Nov-25-09 15:00		353698-007
Base Line SP	S	Nov-25-09 15:10		353698-008

CASE NARRATIVE

XENCO Laboratories

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Loco Hills Station By Pass Line

Project ID: 2009-251 *Report Date:* 08-DEC-09
Work Order Number: 353698 *Date Received:* 11/27/2009

Sample receipt non conformances and Comments:
None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-783756 Percent Moisture
None

Batch: LBA-783801 TPH by SW8015 Mod
SW8015MOD_NM

Batch 783801, o-Terphenyl recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 353698-002.

Batch: LBA-784017 BTEX by EPA 8021
SW8021BM

Batch 784017, Toluene recovered below QC limits in the Matrix Spike. Benzene, Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 353698-006, -002, -003, -007, -005, -001, -004.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

CASE NARRATIVE

XENCO Laboratories

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Loco Hills Station By Pass Line

Project ID: 2009-251
Work Order Number: 353698

Report Date: 08-DEC-09
Date Received: 11/27/2009

Batch: LBA-784762 BTEX by EPA 8021
SW8021BM

Batch 784762, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 353698-008.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

SW8021BM

Batch 784762, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 353698-008.

Certificate of Analysis Summary 353698

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Loco Hills Station By Pass Line

Project Id: 2009-251
Contact: Jason Henry
Project Location: Eddy County, NM

Date Received in Lab: Fri Nov-27-09 01:39 pm
Report Date: 08-DEC-09
Project Manager: Brent Barron, II

Analysis Requested		Lab Id:	353698-001		353698-002		353698-003		353698-004		353698-005		353698-006	
		Field Id:	NSW @ 8'		ESW @ 8'		WSW @ 8'		SSW @ 8'		Floor @ 10'		WFP	
		Depth:												
		Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		Sampled:	Nov-25-09 14:30		Nov-25-09 14:35		Nov-25-09 14:40		Nov-25-09 14:45		Nov-25-09 14:50		Nov-25-09 14:55	
BTEX by EPA 8021		Extracted:	Dec-01-09 08:45		Dec-01-09 08:45		Dec-01-09 08:45		Dec-01-09 08:45		Dec-01-09 08:45		Dec-01-09 08:45	
		Analyzed:	Dec-01-09 12:36		Dec-01-09 12:57		Dec-01-09 13:18		Dec-01-09 13:39		Dec-01-09 14:00		Dec-01-09 14:21	
		Units/RL:	mg/kg	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	0.0010	ND	0.0010
Toluene			ND	0.0021	ND	0.0021	ND	0.0021	ND	0.0021	ND	0.0021	ND	0.0020
Ethylbenzene			ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0010
m,p-Xylenes			ND	0.0021	ND	0.0021	ND	0.0021	ND	0.0021	ND	0.0021	ND	0.0020
o-Xylene			ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0010
Xylenes, Total			ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0010
Total BTEX			ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0010
Percent Moisture		Extracted:												
		Analyzed:	Nov-30-09 17:00		Nov-30-09 17:00		Nov-30-09 17:00		Nov-30-09 17:00		Nov-30-09 17:00		Nov-30-09 17:00	
		Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture			6.81	1.00	6.83	1.00	6.17	1.00	3.40	1.00	3.81	1.00	2.41	1.00
TPH by SW8015 Mod		Extracted:	Nov-30-09 16:00		Nov-30-09 16:00		Nov-30-09 16:00		Nov-30-09 16:00		Nov-30-09 16:00		Nov-30-09 16:00	
		Analyzed:	Dec-01-09 03:48		Dec-01-09 04:13		Dec-01-09 04:39		Dec-01-09 05:05		Dec-01-09 05:30		Dec-01-09 05:56	
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons			ND	16.0	ND	16.1	ND	15.9	ND	15.5	ND	15.6	ND	15.3
C12-C28 Diesel Range Hydrocarbons			ND	16.0	45.2	16.1	ND	15.9	ND	15.5	ND	15.6	ND	15.3
C28-C35 Oil Range Hydrocarbons			ND	16.0	ND	16.1	ND	15.9	ND	15.5	ND	15.6	ND	15.3
Total TPH			ND	16.0	45.2	16.1	ND	15.9	ND	15.5	ND	15.6	ND	15.3

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 353698

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Loco Hills Station By Pass Line

Project Id: 2009-251
Contact: Jason Henry
Project Location: Eddy County, NM

Date Received in Lab: Fri Nov-27-09 01:39 pm
Report Date: 08-DEC-09
Project Manager: Brent Barron, II

Analysis Requested									
	Lab Id:	353698-007		353698-008					
	Field Id:	SFP		Base Line SP					
	Depth:								
	Matrix:	SOIL		SOIL					
	Sampled:	Nov-25-09 15:00		Nov-25-09 15:10					
BTEX by EPA 8021	*Extracted:*	Dec-01-09 08:45		Dec-07-09 14:35					
	Analyzed:	Dec-01-09 14:42		Dec-07-09 18:29					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.0011	ND	0.0106				
Toluene		ND	0.0021	0.2955	0.0211				
Ethylbenzene		ND	0.0011	2.464	0.0106				
m,p-Xylenes		ND	0.0021	3.955	0.0211				
o-Xylene		ND	0.0011	1.879	0.0106				
Xylenes, Total		ND	0.0011	5.834	0.0106				
Total BTEX		ND	0.0011	8.594	0.0106				
Percent Moisture	*Extracted:*								
	Analyzed:	Nov-30-09 17:00		Nov-30-09 17:00					
	Units/RL:	%	RL	%	RL				
Percent Moisture		5.85	1.00	5.37	1.00				
TPH by SW8015 Mod	*Extracted:*	Nov-30-09 16:00		Nov-30-09 16:00					
	Analyzed:	Dec-01-09 06:22		Dec-01-09 06:47					
	Units/RL:	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	15.9	873	159				
C12-C28 Diesel Range Hydrocarbons		ND	15.9	1900	159				
C28-C35 Oil Range Hydrocarbons		ND	15.9	ND	159				
Total TPH		ND	15.9	2773	159				

Brent Barron, II
Odessa Laboratory Manager

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.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Loco Hills Station By Pass Line

Work Orders : 353698,

Project ID: 2009-251

Lab Batch #: 784017 **Sample:** 544531-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/01/09 09:25

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 784017 **Sample:** 544531-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/01/09 09:46

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	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	0.0303	0.0300	101	80-120	

Lab Batch #: 784017 **Sample:** 544531-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/01/09 12:15

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0267	0.0300	89	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 784017 **Sample:** 353698-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 12:36

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0273	0.0300	91	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 784017 **Sample:** 353698-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 12:57

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	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	0.0318	0.0300	106	80-120	

* Surrogate outside of Laboratory QC limits

** 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.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Loco Hills Station By Pass Line

Work Orders : 353698,

Project ID: 2009-251

Lab Batch #: 784017 **Sample:** 353698-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 13:18

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	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	0.0298	0.0300	99	80-120	

Lab Batch #: 784017 **Sample:** 353698-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 13:39

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0308	0.0300	103	80-120	

Lab Batch #: 784017 **Sample:** 353698-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 14:00

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0266	0.0300	89	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 784017 **Sample:** 353698-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 14:21

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 784017 **Sample:** 353698-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 14:42

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0268	0.0300	89	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

* Surrogate outside of Laboratory QC limits

** 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.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Loco Hills Station By Pass Line

Work Orders : 353698,

Project ID: 2009-251

Lab Batch #: 784017 **Sample:** 353698-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 20:43

BTEX by EPA 8021	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	0.0320	0.0300	107	80-120	

Lab Batch #: 784017 **Sample:** 353698-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 21:04

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	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	0.0318	0.0300	106	80-120	

Lab Batch #: 784762 **Sample:** 544968-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/07/09 15:24

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0343	0.0300	114	80-120	
4-Bromofluorobenzene	0.0325	0.0300	108	80-120	

Lab Batch #: 784762 **Sample:** 544968-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/07/09 16:09

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	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	0.0329	0.0300	110	80-120	

Lab Batch #: 784762 **Sample:** 353698-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/07/09 18:29

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0931	0.0300	310	80-120	**

* Surrogate outside of Laboratory QC limits

** 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.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Loco Hills Station By Pass Line

Work Orders : 353698,

Project ID: 2009-251

Lab Batch #: 784762 **Sample:** 353806-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/07/09 19:59

BTEX by EPA 8021 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	0.0327	0.0300	109	80-120	

Lab Batch #: 784762 **Sample:** 353806-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/07/09 20:21

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0339	0.0300	113	80-120	
4-Bromofluorobenzene	0.0335	0.0300	112	80-120	

Lab Batch #: 783801 **Sample:** 544420-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/01/09 01:39

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	99.9	127	70-135	
o-Terphenyl	59.8	50.0	120	70-135	

Lab Batch #: 783801 **Sample:** 544420-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/01/09 02:05

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	99.7	124	70-135	
o-Terphenyl	53.9	49.9	108	70-135	

Lab Batch #: 783801 **Sample:** 544420-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/01/09 02:30

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.2	100	92	70-135	
o-Terphenyl	58.1	50.0	116	70-135	

* Surrogate outside of Laboratory QC limits

** 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.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Loco Hills Station By Pass Line

Work Orders : 353698,

Project ID: 2009-251

Lab Batch #: 783801 **Sample:** 353698-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 03:48

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.6	99.6	88	70-135	
o-Terphenyl	55.1	49.8	111	70-135	

Lab Batch #: 783801 **Sample:** 353698-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 04:13

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	99.7	112	70-135	
o-Terphenyl	69.6	49.9	139	70-135	*

Lab Batch #: 783801 **Sample:** 353698-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 04:39

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.4	99.6	87	70-135	
o-Terphenyl	54.1	49.8	109	70-135	

Lab Batch #: 783801 **Sample:** 353698-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 05:05

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.3	100	86	70-135	
o-Terphenyl	52.6	50.0	105	70-135	

Lab Batch #: 783801 **Sample:** 353698-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 05:30

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.2	100	84	70-135	
o-Terphenyl	52.1	50.0	104	70-135	

* Surrogate outside of Laboratory QC limits

** 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.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Loco Hills Station By Pass Line

Work Orders : 353698,

Project ID: 2009-251

Lab Batch #: 783801 **Sample:** 353698-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 05:56

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.6	99.5	82	70-135	
o-Terphenyl	49.8	49.8	100	70-135	

Lab Batch #: 783801 **Sample:** 353698-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 06:22

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.7	100	85	70-135	
o-Terphenyl	52.6	50.0	105	70-135	

Lab Batch #: 783801 **Sample:** 353698-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 06:47

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	63.7	50.0	127	70-135	

Lab Batch #: 783801 **Sample:** 353698-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 07:13

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	122	99.6	122	70-135	
o-Terphenyl	54.5	49.8	109	70-135	

Lab Batch #: 783801 **Sample:** 353698-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/01/09 07:39

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	99.9	125	70-135	
o-Terphenyl	58.1	50.0	116	70-135	

* Surrogate outside of Laboratory QC limits

** 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: Loco Hills Station By Pass Line

Work Order #: 353698 **Project ID:** 2009-251

Lab Batch #: 784762 **Sample:** 544968-1-BKS **Matrix:** Solid

Date Analyzed: 12/07/2009 **Date Prepared:** 12/07/2009 **Analyst:** ASA

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

BTEX by EPA 8021 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
	BLANK /BLANK SPIKE RECOVERY STUDY					
Benzene	ND	0.1000	0.0943	94	70-130	
Toluene	ND	0.1000	0.0979	98	70-130	
Ethylbenzene	0.0010	0.1000	0.0952	95	71-129	
m,p-Xylenes	ND	0.2000	0.1956	98	70-135	
o-Xylene	ND	0.1000	0.1027	103	71-133	

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

BRL - Below Reporting Limit

BS / BSD Recoveries

Project Name: Loco Hills Station By Pass Line

Work Order #: 353698 **Project ID:** 2009-251

Analyst: ASA **Date Prepared:** 12/01/2009 **Date Analyzed:** 12/01/2009

Lab Batch ID: 784017 **Sample:** 544531-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021	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	0.0928	93	0.1	0.0939	94	1	70-130	35	
Toluene	ND	0.1000	0.0947	95	0.1	0.0949	95	0	70-130	35	
Ethylbenzene	ND	0.1000	0.0920	92	0.1	0.0929	93	1	71-129	35	
m,p-Xylenes	ND	0.2000	0.1973	99	0.2	0.1987	99	1	70-135	35	
o-Xylene	ND	0.1000	0.0988	99	0.1	0.0998	100	1	71-133	35	

Analyst: BEV **Date Prepared:** 11/30/2009 **Date Analyzed:** 12/01/2009

Lab Batch ID: 783801 **Sample:** 544420-1-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	999	934	93	997	930	93	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	999	917	92	997	755	76	19	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 / MSD Recoveries

Project Name: Loco Hills Station By Pass Line

Work Order # : 353698 **Project ID:** 2009-251

Lab Batch ID: 784017 **QC- Sample ID:** 353698-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/01/2009 **Date Prepared:** 12/01/2009 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021 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	0.1073	0.0653	61	0.1073	0.0693	65	6	70-130	35	X
Toluene	ND	0.1073	0.0740	69	0.1073	0.0749	70	1	70-130	35	X
Ethylbenzene	ND	0.1073	0.0660	62	0.1073	0.0667	62	1	71-129	35	X
m,p-Xylenes	ND	0.2146	0.1458	68	0.2146	0.1424	66	2	70-135	35	X
o-Xylene	ND	0.1073	0.0743	69	0.1073	0.0724	67	3	71-133	35	X

Lab Batch ID: 784762 **QC- Sample ID:** 353806-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/07/2009 **Date Prepared:** 12/07/2009 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021 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	0.1187	0.0664	56	0.1184	0.0773	65	15	70-130	35	X
Toluene	0.0172	0.1187	0.0589	35	0.1184	0.0649	40	10	70-130	35	X
Ethylbenzene	ND	0.1187	0.0545	46	0.1184	0.0600	51	10	71-129	35	X
m,p-Xylenes	ND	0.2374	0.1040	44	0.2369	0.1122	47	8	70-135	35	X
o-Xylene	ND	0.1187	0.0604	51	0.1184	0.0660	56	9	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: Loco Hills Station By Pass Line

Work Order # : 353698 **Project ID:** 2009-251

Lab Batch ID: 783801 **QC- Sample ID:** 353698-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/01/2009 **Date Prepared:** 11/30/2009 **Analyst:** BEV

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	1070	1010	94	1070	990	93	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1070	772	72	1070	798	75	3	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: Loco Hills Station By Pass Line

Work Order #: 353698

Lab Batch #: 783756 **Project ID:** 2009-251

Date Analyzed: 11/30/2009 **Date Prepared:** 11/30/2009 **Analyst:** LATCOR

QC- Sample ID: 353696-001 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	6.90	7.55	9	20	

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

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: 2800 Plains Hwy

City/State/Zip: Lovington, NM 88260

Telephone No: (575) 441-2244 Fax No: (505) 396-1429

Sampler Signature:

e-mail: cstanley@basinenv.com

Project Name: Loco Hills Station Bypass Line

Project #: 2009-251

Project Loc: Eddy County, NM

PO #: PAA - J. Henry

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

(lab use only)
ORDER #: 353698

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 (VOA X 2)	H2SO4	NaOH	Na2S2O3	None (PAH)	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	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	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	PAH	EPA Paint Filter Test	Chlorides E 300	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	NSW@8'			11/25	1430		1	X									SOIL		X								X							X
02	ESW@8'				1435																													
03	WSW@8'				1440																													
04	SSW@8'				1445																													
05	FLOOR@10'				1450																													
06	WFP				1455																													
07	SFP				1500																													
08	BASELINE SP				1510																													

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	11/27/09	1300			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	11/27/09	13:35

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: 4.1 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Basin / Plains

Date/ Time: 11.27.09 13:39

Lab ID #: 353698

Initials: AL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.1 °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 356644

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Loco Hills Station By Pass Line

2009-251

30-DEC-09

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)

30-DEC-09

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

Reference: XENCO Report No: **356644**
Loco Hills Station By Pass Line
Project Address: Eddy County, NM

Jason Henry:

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 356644. 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. 356644 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 356644

PLAINS ALL AMERICAN EH&S, Midland, TX

Loco Hills Station By Pass Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Blended	S	Dec-22-09 13:05		356644-001

CASE NARRATIVE

XENCO Laboratories

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Loco Hills Station By Pass Line

Project ID:	*2009-251*	*Report Date:*	*30-DEC-09*
Work Order Number:	*356644*	*Date Received:*	*12/23/2009*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-786928 Percent Moisture
None

Batch: LBA-787280 TPH by SW8015 Mod
None

Batch: LBA-787636 BTEX by EPA 8021
SW8021BM

Batch 787636, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 356644-001.

Certificate of Analysis Summary 356644

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Loco Hills Station By Pass Line

Project Id: 2009-251
Contact: Jason Henry
Project Location: Eddy County, NM

Date Received in Lab: Wed Dec-23-09 08:17 am
Report Date: 30-DEC-09
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	356644-001					
	Field Id:	Blended					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Dec-22-09 13:05					
BTEX by EPA 8021	*Extracted:*	Dec-29-09 11:00					
	Analyzed:	Dec-29-09 15:37					
	Units/RL:	mg/kg RL					
Benzene		ND 0.0010					
Toluene		ND 0.0021					
Ethylbenzene		0.0130 0.0010					
m,p-Xylenes		0.1697 0.0021					
o-Xylene		0.1180 0.0010					
Xylenes, Total		0.2877 0.0010					
Total BTEX		0.3007 0.0010					
Percent Moisture	*Extracted:*						
	Analyzed:	Dec-23-09 08:35					
	Units/RL:	% RL					
Percent Moisture		4.95 1.00					
TPH by SW8015 Mod	*Extracted:*	Dec-23-09 13:00					
	Analyzed:	Dec-25-09 17:54					
	Units/RL:	mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons		279 15.7					
C12-C28 Diesel Range Hydrocarbons		802 15.7					
C28-C35 Oil Range Hydrocarbons		58.1 15.7					
Total TPH		1139 15.7					

Brent Barron, II
Odessa Laboratory Manager

XENCO Laboratories

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.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Loco Hills Station By Pass Line

Work Orders : 356644,

Project ID: 2009-251

Lab Batch #: 787636 **Sample:** 546631-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/29/09 08:43

BTEX by EPA 8021	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	0.0296	0.0300	99	80-120	

Lab Batch #: 787636 **Sample:** 546631-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/29/09 09:07

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0301	0.0300	100	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 787636 **Sample:** 546631-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/29/09 10:18

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0244	0.0300	81	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 787636 **Sample:** 356644-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/29/09 15:37

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0252	0.0300	84	80-120	
4-Bromofluorobenzene	0.1633	0.0300	544	80-120	*

Lab Batch #: 787636 **Sample:** 357001-006 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/29/09 22:42

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	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	0.0302	0.0300	101	80-120	

* Surrogate outside of Laboratory QC limits

** 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: Loco Hills Station By Pass Line

Work Orders : 356644,

Project ID: 2009-251

Lab Batch #: 787636 **Sample:** 357001-006 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/29/09 23:05

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 787280 **Sample:** 546413-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/25/09 13:25

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	99.8	117	70-135	
o-Terphenyl	54.5	49.9	109	70-135	

Lab Batch #: 787280 **Sample:** 546413-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/25/09 13:52

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	99.5	120	70-135	
o-Terphenyl	55.1	49.8	111	70-135	

Lab Batch #: 787280 **Sample:** 546413-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/25/09 14:19

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.9	102	70-135	
o-Terphenyl	57.2	50.0	114	70-135	

Lab Batch #: 787280 **Sample:** 356644-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/25/09 17:54

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	99.8	113	70-135	
o-Terphenyl	57.9	49.9	116	70-135	

* Surrogate outside of Laboratory QC limits

** 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: Loco Hills Station By Pass Line

Work Orders : 356644,

Project ID: 2009-251

Lab Batch #: 787280 **Sample:** 356667-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/25/09 22:17

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	100	123	70-135	
o-Terphenyl	55.7	50.0	111	70-135	

Lab Batch #: 787280 **Sample:** 356667-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/25/09 22:43

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	55.5	50.0	111	70-135	

* Surrogate outside of Laboratory QC limits

** 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.

XENCO Laboratories

BS / BSD Recoveries

Project Name: Loco Hills Station By Pass Line

Work Order #: 356644 **Project ID:** 2009-251

Analyst: ASA **Date Prepared:** 12/29/2009 **Date Analyzed:** 12/29/2009

Lab Batch ID: 787636 **Sample:** 546631-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021	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	0.1014	101	0.1	0.1089	109	7	70-130	35	
Toluene	ND	0.1000	0.1047	105	0.1	0.1123	112	7	70-130	35	
Ethylbenzene	ND	0.1000	0.1049	105	0.1	0.1121	112	7	71-129	35	
m,p-Xylenes	ND	0.2000	0.2315	116	0.2	0.2467	123	6	70-135	35	
o-Xylene	ND	0.1000	0.1157	116	0.1	0.1234	123	6	71-133	35	

Analyst: BEV **Date Prepared:** 12/23/2009 **Date Analyzed:** 12/25/2009

Lab Batch ID: 787280 **Sample:** 546413-1-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	998	966	97	995	958	96	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	998	703	70	995	767	77	9	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 / MSD Recoveries

Project Name: Loco Hills Station By Pass Line

Work Order # : 356644 **Project ID:** 2009-251

Lab Batch ID: 787636 **QC- Sample ID:** 357001-006 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/29/2009 **Date Prepared:** 12/29/2009 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021 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	0.1039	0.0798	77	0.1031	0.0855	83	7	70-130	35	
Toluene	ND	0.1039	0.0796	77	0.1031	0.0857	83	7	70-130	35	
Ethylbenzene	ND	0.1039	0.0739	71	0.1031	0.0807	78	9	71-129	35	
m,p-Xylenes	ND	0.2079	0.1605	77	0.2062	0.1742	84	8	70-135	35	
o-Xylene	ND	0.1039	0.0774	74	0.1031	0.0847	82	9	71-133	35	

Lab Batch ID: 787280 **QC- Sample ID:** 356667-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/25/2009 **Date Prepared:** 12/23/2009 **Analyst:** BEV

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	1070	1040	97	1070	1030	96	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	28.8	1070	842	76	1070	843	76	0	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

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

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

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

XENCO Laboratories

Sample Duplicate Recovery

Project Name: Loco Hills Station By Pass Line

Work Order #: 356644

Lab Batch #: 786928 **Project ID:** 2009-251

Date Analyzed: 12/23/2009 **Date Prepared:** 12/23/2009 **Analyst:** MOV

QC- Sample ID: 356606-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	7.64	7.71	1	20	

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

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) 441-2244 Fax No: (505) 396-1429

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

Project Name: Loco Hills Station ByPass Line

Project #: 2009-251

Project Loc: Eddy County, NM

PO #: PAA - J. Henry

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

(lab use only)
ORDER #: 356644

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	TPH: TX 1005 / TX 7006	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.	PAH 8270	TDS (EPA METHOD SM 2540c)	CHLORIDES E 300	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Blended SP			12/22/2009	1305		1	1								Soil	X							X								X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	12/22/09	3:20		12/22/09	3:20
Relinquished by:	Date	Time	Received by:	Date	Time
	12/23/09	08:17			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				12/23/09	8:17

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: 2.6 °C

4oz C.g.

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Basin Environmental/Plains

Date/ Time: 12/23/09 8:17

Lab ID # : 356644

Initials: AS

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	2.6 °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: _____

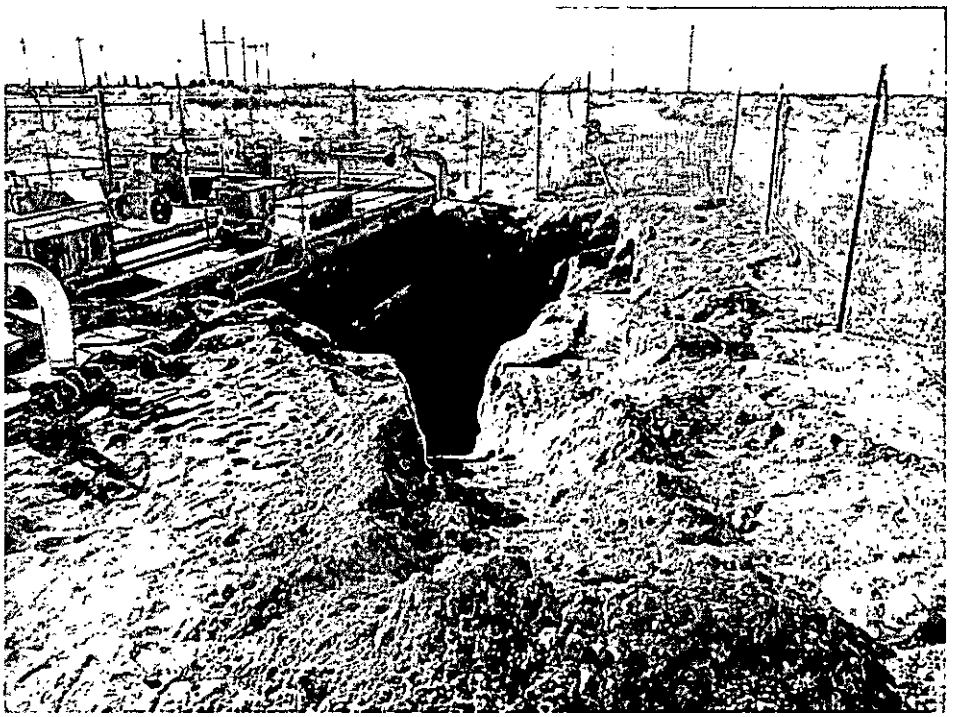
Regarding: _____

Corrective Action Taken: _____

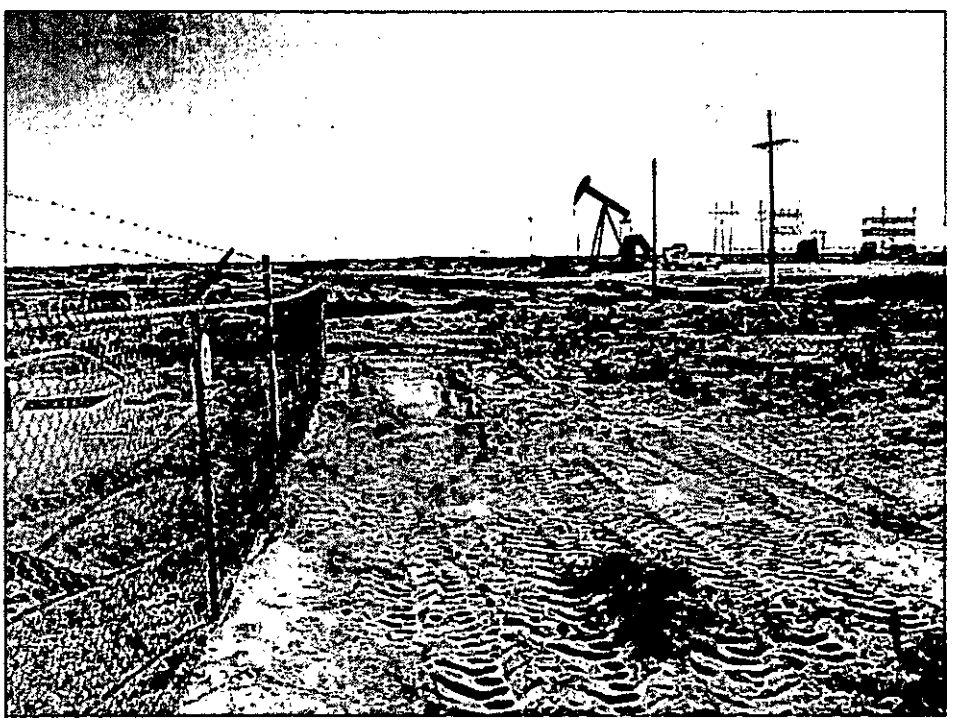
Check all that Apply:

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

Appendix C
Photographs

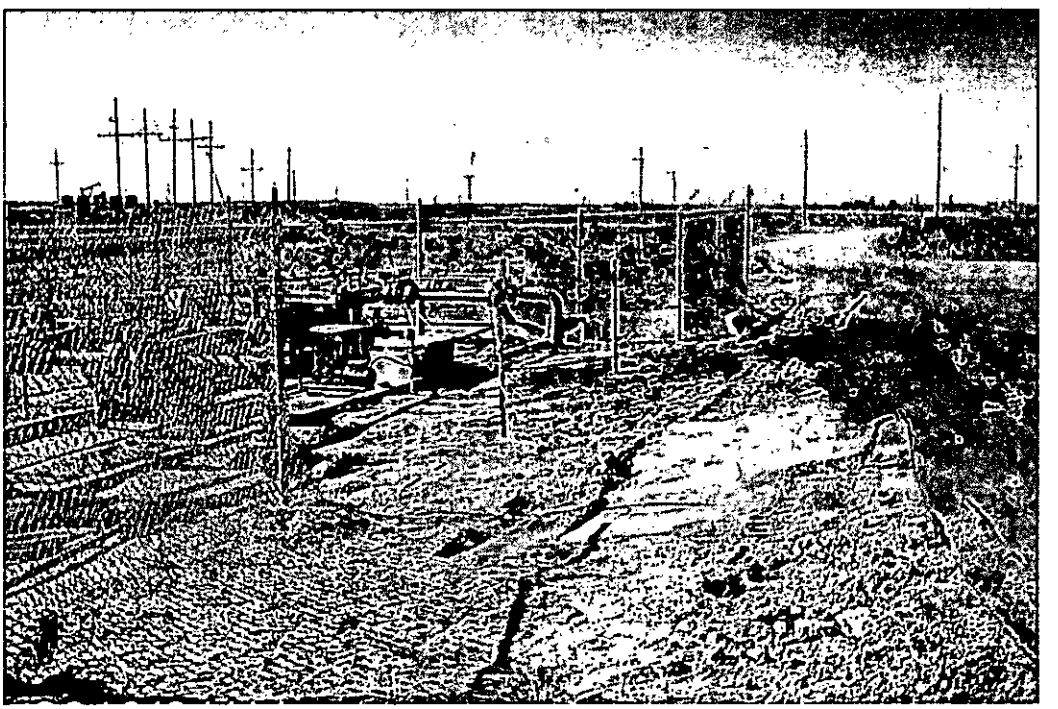


Loco Hill Station Bypass Line Excavation, looking west



Loco Hill Station Bypass Line west flowpath, looking south

Loco Hills Station Bypass Line, south flowpath backfilled, looking west



Loco Hills Station Bypass Line, excavation backfilled and water packed, looking west

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

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
DEC - 9 2009
NMOCD ARTESIA

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	**Plains Pipeline, LP**	Contact	**Jason Henry**
Address	**2530 Hwy 214 – Denver City, Tx 79323**	Telephone No.	**(575) 441-1099**
Facility Name	**Loco Hills Station Bypass Line**	Facility Type	**Pipeline**

Surface Owner **BLM**	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	**23**	**17S**	**31E**					**Eddy**

Latitude N 32° 49' 23.4" Longitude W 103° 50' 15.6"

NATURE OF RELEASE

Type of Release **Crude Oil**	Volume of Release **35 bbls**	Volume Recovered **25 bbls**
Source of Release **4" Steel Bypass Line**	Date and Hour of Occurrence **11/19/2009**	Date and Hour of Discovery **11/19/2009 11:00**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Verbal notification to Mike Bratcher on 11/20/2009**	
By Whom? **Jason Henry**	Date and Hour **11/20/2009 @ 10:30**	
Was a Watercourse Reached? ☐ Yes ☒ **No**	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Internal corrosion of a 4-inch bypass line resulted in a release of crude oil, the free product was recovered with a vacuum truck, and the impacted soil has been excavated and stockpiled.

Describe Area Affected and Cleanup Action Taken.*

The released crude resulted in a surface stain that measured approximately 40' x 30'. The impacted area will be remediated per applicable BLM/NMOCD guidelines.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Jason Henry	OIL CONSERVATION DIVISION		
Printed Name: **Jason Henry**	Approved by District Supervisor:		
Title: **Remediation Coordinator**	Approval Date:	Expiration Date:	
E-mail Address: **jhenry@paalp.com**	Conditions of Approval:	Attached ☐	
Date: 12/09/2009 Phone: **(575) 441-1099**			

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
MAR 16 2010
NMOCD ARTESIA

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report X Final Report

Name of Company	Plains Pipeline, LP	Contact	Jason Henry
Address	2530 Hwy 214 – Denver City, Tx 79323	Telephone No.	(575) 441-1099
Facility Name	Loco Hills Station Bypass Line	Facility Type	Pipeline

Surface Owner BLM	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	23	17S	31E					Eddy

Latitude N 32° 49' 23.4" Longitude W 103° 50' 15.6"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 35 bbls	Volume Recovered 25 bbls
Source of Release 4" Steel Bypass Line	Date and Hour of Occurrence 11/19/2009	Date and Hour of Discovery 11/19/2009 11:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Verbal notification to Mike Bratcher on 11/20/2009	
By Whom? Jason Henry	Date and Hour 11/20/2009 @ 10:30	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Internal corrosion of a 4-inch bypass line resulted in a release of crude oil, the free product was recovered with a vacuum truck, and the impacted soil was excavated, stockpiled, and remediated on-site. The excavated area was backfilled with the remediated stockpile.

Describe Area Affected and Cleanup Action Taken.* .

The released crude resulted in a surface stain that measured approximately 40' x 30'. The impacted area was remediated per applicable BLM/NMOCD guidelines. Please see the attached Basin Environmental Consulting *Remediation Summary and Site Closure Request* for details of remedial activities conducted at the site.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Jason Henry	OIL CONSERVATION DIVISION
Printed Name: Jason Henry	Approved by District Supervisor:
Title: Remediation Coordinator	Approval Date: / Expiration Date:
E-mail Address: jhenry@paalp.com	Conditions of Approval: / Attached ☐
Date: 02/26/2010 Phone: (575) 441-1099	

* Attach Additional Sheets If Necessary