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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

1RP-2654

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	Lea Federal 4-inch Poly	Facility Type	Pipeline

Surface Owner NMSLO	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
L	12	20S	34E					Lea

Latitude N 32.58411 Longitude W 103.51914

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 10 bbls	Volume Recovered: 1 bbl
Source of Release: 4" Poly Pipeline	Date and Hour of Occurrence: 11/10/2010 @ 10:00	Date and Hour of Discovery: 11/10/2010 @ 10:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson	
By Whom? Jason Henry	Date and Hour: 11/10/2010 @ 1500	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

HOBBS OCD

AUG 0 3 2011

RECEIVED

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A 4-inch poly pipeline belonging to Plains Pipeline was struck by a backhoe causing a release of crude oil. Throughput for the subject line is approximately 133 bbls/day and the operating pressure is 60 psi. The depth of the pipeline at the release point is approximately 4' bgs. The H2S concentration in the crude is less than 10 ppm.

Describe Area Affected and Cleanup Action Taken.*

Please see the attached Basin Environmental *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

Printed Name: Jason Henry

Title: Remediation Coordinator

E-mail Address: jhenry@paalp.com

Date: 08/03/2011 Phone: (575) 441-1099

OIL CONSERVATION DIVISION

Approved by ~~District Supervisor~~ ENVENGINEER: Geoffrey Leking

Approval Date: 08/03/11 Expiration Date:

Conditions of Approval: — Attached ☐ 1RP-11-10-2654

* Attach Additional Sheets If Necessary

DEC 15 2015

PLWJ1032156895

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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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	Lea Federal 4-inch Poly	Facility Type	Pipeline

Surface Owner NMSLO	Mineral Owner	Lease No.

API 30-025-12803

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	12	20S	34E					Lea

Latitude N 32.58411 Longitude W 103.51914

< 100' WTR

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 10 bbls	Volume Recovered 1 bbl
Source of Release 4" Poly Pipeline	Date and Hour of Occurrence 11/10/2010 @ 10:00	Date and Hour of Discovery 11/10/2010 @ 10:00
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? Larry Johnson	
By Whom? Jason Henry	Date and Hour 11/17/2010 @ 1500	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

HOBBSOCD
NOV 17 2010
RECEIVED

Describe Cause of Problem and Remedial Action Taken *

A 4-inch poly pipeline belonging to Plains Pipeline was struck by a backhoe causing a release of crude oil. Throughput for the subject line is approximately 133 bbls/day and the operating pressure is 60 psi. The depth of the pipeline at the release point is approximately 4' bgs. The H2S concentration in the crude is less than 10 ppm.

Describe Area Affected and Cleanup Action Taken.* .

The released crude pooled in an open ditch line and a vac truck was utilized to recover approximately 1 bbl from the ditch. The impacted area will be remediated per applicable 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

Printed Name: Jason Henry

Title: Remediation Coordinator

E-mail Address: jhenry@paalp.com

Date: 11/17/2010 Phone: (575) 441-1099

OIL CONSERVATION DIVISION

Approved by District Supervisor: ENVIRONMENTAL ENGINEER

Approval Date: 11.17.10 Expiration Date: 2.17.2011

Conditions of Approval: SUBMIT FINAL C-141 w/DOCS BH

Attached ☐
IRP # 11.0.2654

* Attach Additional Sheets If Necessary

District I
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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

1RP-2654

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	Lea Federal 4-inch Poly	Facility Type	Pipeline

Surface Owner	Mineral Owner	Lease No.
NMSLO		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	12	20S	34E					Lea

Latitude N 32.58411 Longitude W 103.51914

NATURE OF RELEASE

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By Whom? Jason Henry	Date and Hour: 11/10/2010 @ 1500	
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HOBBS OCD

AUG 0 3 2011

RECEIVED

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Describe Cause of Problem and Remedial Action Taken.*

A 4-inch poly pipeline belonging to Plains Pipeline was struck by a backhoe causing a release of crude oil. Throughput for the subject line is approximately 133 bbls/day and the operating pressure is 60 psi. The depth of the pipeline at the release point is approximately 4' bgs. The H2S concentration in the crude is less than 10 ppm.

Describe Area Affected and Cleanup Action Taken.*

Please see the attached Basin Environmental *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~~ ENVENGINEER: Geoffrey Leking	
Title: Remediation Coordinator	Approval Date: 08/03/11	Expiration Date: —
E-mail Address: jhenry@paalp.com	Conditions of Approval: —	Attached ☐ 1RP-11-10-2654
Date: 08/03/2011 Phone: (575) 441-1099		

* Attach Additional Sheets If Necessary

Basin Environmental Service Technologies, LLC

3100 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
bjarguijo@basinenv.com
Office: (575) 396-2378 Fax: (575) 396-1429

Effective Solutions

REMEDIATION SUMMARY &

SITE CLOSURE REQUEST

PLAINS PIPELINE, LP (231735)
Lea Federal 4-Inch Poly
Lea County, New Mexico
Plains SRS # 2010-206
Unit Letter "L" (NW/SW), Section 12, Township 20 South, Range 34 East
Latitude 32° 35' 2.80" North, Longitude 103° 31' 8.90" West
NMOCD Reference # 1RP-2654

Prepared For:

Plains Pipeline, LP
333 Clay Street
Suite 1600
Houston, Texas 77002

Prepared By:

Basin Environmental Service Technologies, LLC
3100 Plains Highway
Lovington, New Mexico 88260

June 2011

Ben J. Arguijo
Project Manager

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

1.0 INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of Plains Pipeline, LP (Plains), has prepared this *Remediation Summary & Site Closure Request* for the release site known as Lea Federal 4-Inch Poly (SRS #2010-206). The legal description of the release site is Unit Letter "L" (NW/SW), Section 12, Township 20 South, Range 34 East in Lea County, New Mexico. The property affected by the release is owned by the New Mexico State Land Office (NMSLO). The geographic coordinates of the release site are 32° 35' 2.80" North latitude and 103° 31' 8.90" West longitude. A "Site Location Map" is provided as Figure 1.

On November 10, 2010, during repairs of Plains' Scharb 8" pipeline, the Lea Federal 4-inch poly pipeline was struck by a backhoe, resulting in a release of crude oil. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on November 17, 2010. The "Release Notification and Corrective Action" (Form C-141) indicated that approximately ten (10) barrels of crude oil was released. During initial response activities, a vacuum truck was utilized to recover approximately one (1) barrel of free fluids, which had pooled in an adjacent, open ditch line. The release site was excavated, and the area of impact was delineated. General photographs of the site are provided as Appendix B. The Form C-141 is provided as Appendix C.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 12, Township 20 South, Range 34 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately seventy five feet (75') below ground surface (bgs). Based on the NMOCD ranking system, ten (10) points will be assigned to the site as a result of the depth-to-groundwater criterion.

A search of the NMWRRS database indicated there are no water wells within 1,000 feet of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

NMOCD guidelines indicate the Lea Federal 4-Inch Poly release site has an initial ranking score of ten (10). The soil remediation levels for a site with a ranking score of ten (10) points are as follows:

- Benzene – 10 mg/kg (ppm)
- BTEX – 50 mg/kg (ppm)
- TPH – 1,000 mg/kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On November 15, 2010, approximately seventy-two (72) cubic yards (cy) of heavily impacted soil stockpiled on-site during initial response activities was removed and transported to the Lazy Ace Landfarm (NMOCD Permit #NM01-0041) for disposal.

On November 16, 2010, excavation of impacted soil commenced at the site. Hach Quantab Chloride Low Range (30-600 mg/Kg) Titrators were used to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. From November 16 through November 18, 2010, approximately four hundred and fourteen (414) cy of impacted soil was excavated and transported to the Lazy Ace Landfarm for disposal.

On November 17, 2010, nine (9) soil samples (Release Point, North Floor, North Sidewall, South Floor, South Sidewall, East Floor, East Sidewall, West Floor, and West Sidewall) were collected from the floor and sidewalls of the excavation. The soil samples were submitted to Xenco Laboratories, Inc., in Odessa, Texas, for analysis of total petroleum hydrocarbons (TPH) and benzene, toluene, ethyl-benzene, and xylenes (BTEX) constituent concentrations using EPA Methods SW 846-8015M and SW 846-8021b, respectively. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory Method Detection Limit (MDL) in soil sample "North Floor" to 130 mg/Kg in soil sample "Release Point". BTEX constituent concentrations were less than the appropriate laboratory MDL in all soil samples submitted. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chlorides in Soil". Soil sample locations are depicted in Figure 2, "Site & Sample Location Map". Laboratory analytical reports are provided as Appendix A.

On December 3, 2010, two (2) soil samples (Release Point and Release Point #2) were collected from the floor of the excavation. Field test results indicated chloride concentrations were less than that measurable by the Hach Quantab Chloride Low Range (30-600 mg/Kg) Titrators utilized to perform the field analyses. A two-point composite soil sample, "Release Point", was submitted to Xenco Laboratories for confirmatory analysis of chlorides using EPA Method 300.1. Laboratory analytical results indicated the chloride concentration was less than the laboratory MDL. Field-test results are provided in Table 2, "Chloride Field-Test Results".

Based on laboratory analytical results, the excavation was backfilled in eighteen-inch (18") lifts, compacted, and contoured to fit the surrounding topography. Prior to backfilling, the final dimensions of the excavation were approximately forty-two feet (42') in length, eighteen feet (18') feet in width, and ranging in depth from four feet (4') to eleven feet (11').

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil Samples were delivered to Xenco Laboratories, Inc., in Odessa, Texas, for BTEX, TPH, and/or chloride analyses using the methods described below. Soil samples were analyzed for

BTEX, TPH, and/or chloride concentrations within fourteen (14) days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO
- Chloride concentrations in accordance with EPA Method 300.1

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(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Soil samples collected from the floors and sidewalls of the Lea Federal 4-Inch Poly excavation were analyzed by an NMOCD-approved laboratory, and concentrations of Benzene, BTEX, TPH, and chlorides were below the remediation action levels established for the site. Based on these analytical results, Basin recommends Plains provide the NMOCD Hobbs District Office a copy of this "Remediation Summary and Site Closure Request" and request the NMOCD grant site closure to the Lea Federal 4-Inch Poly release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin 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, LP. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or Plains Marketing, LP.

7.0 DISTRIBUTION:

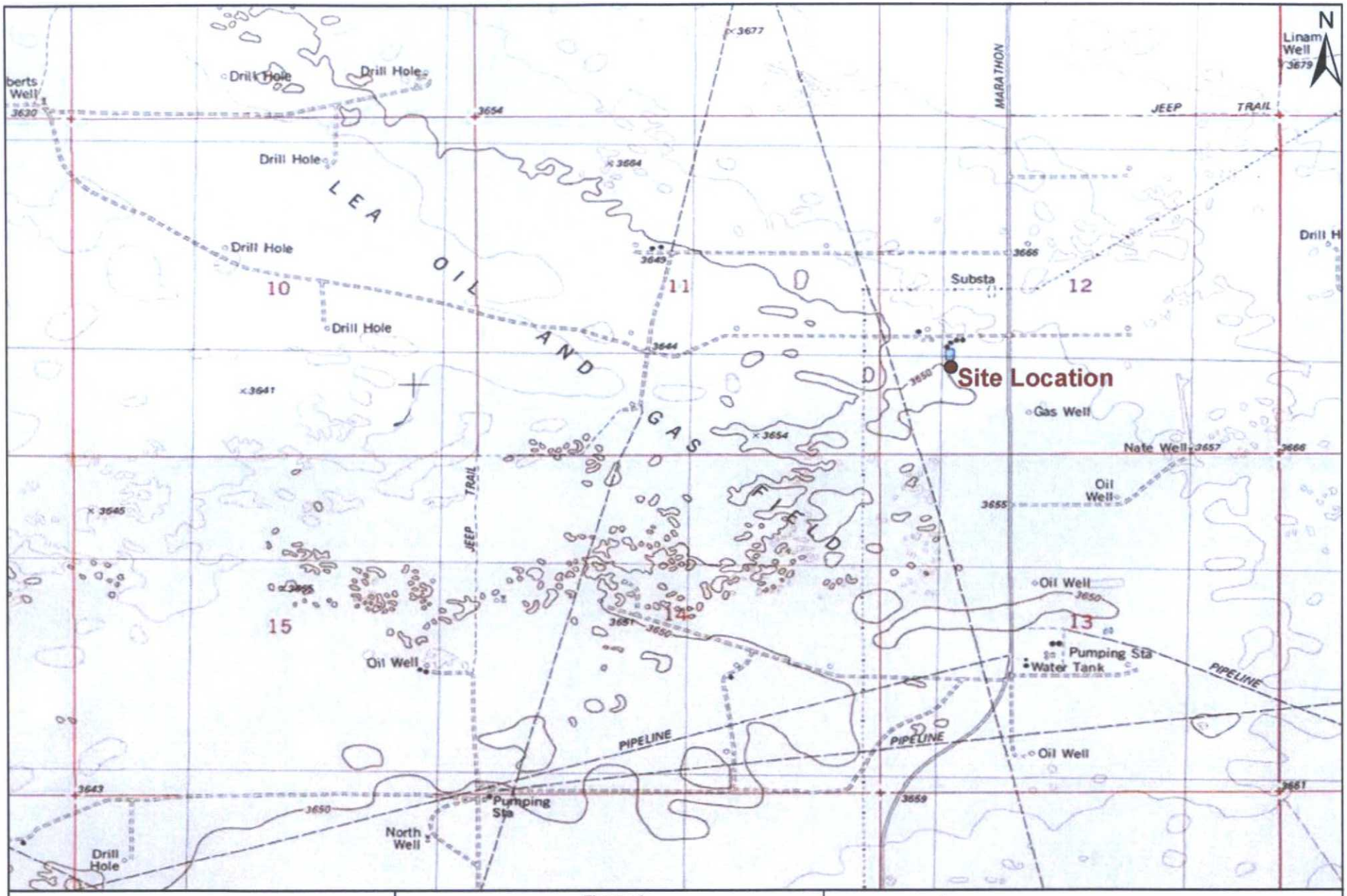
Copy 1: Geoffrey Leking
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, NM 88240
GeoffreyR.Leking@state.nm.us

Copy 2: Myra Harrison
New Mexico State Land Office
2702 N Grimes St # D
Hobbs, NM 88240-1817
mharrison@slo.state.nm.us

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

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

Copy 5: Basin Environmental Service Technologies, LLC
P.O. Box 301
Lovington, New Mexico 88260



1,000500 0 1,000 2,000

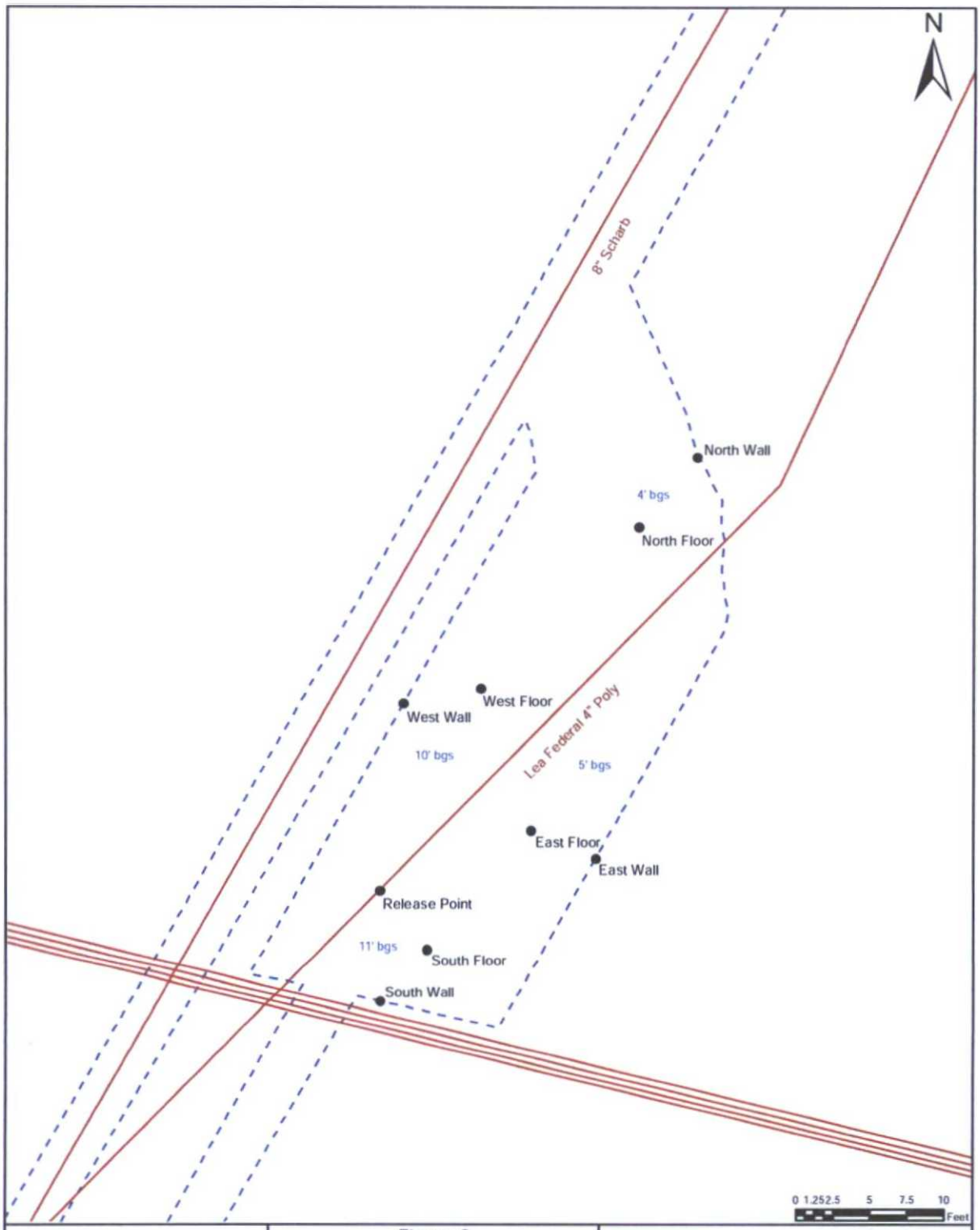
Distance in Feet

Figure 1
Site Location Map
Plains Marketing, LP
Lea Federal 4-Inch Poly
SRS # 2010-206
Lea County, New Mexico

Basin Environmental Service Technologies
Effective Solutions

Basin Environmental Service Technologies, LLC
3100 Plains Hwy.
Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
January 13, 2011	Scale: 1" = 2000'



Legend:

- Excavation Extent
- Pipeline
- Sample Location

Figure 2
Site & Sample Location Map
Plains Marketing, LP
Lea Federal 4-Inch Poly
SRS # 2010-206
Lea County, New Mexico

Basin Environmental Service Technologies
3100 Plains Hwy.
Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
June 20, 2011	Scale: 1" = 10'

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDES IN SOIL

PLAINS PIPELINE, L.P.
LEA FEDERAL 4-INCH POLY
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2010-206
NMOCD REFERENCE #: 1RP-2654

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						METHOD: SW 846-8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300.1
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL 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)
Release Point	11'	11/17/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0010	21.9	108	<15.6	130	-
North Floor	7'	11/17/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0010	<15.6	<15.6	<15.6	<15.6	-
North Sidewall	4.5'	11/17/10	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<15.3	<15.3	<15.3	<15.3	-
South Floor	11'	11/17/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0010	<15.5	23.4	<15.5	23.4	-
South Sidwall	8'	11/17/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0011	<15.8	<15.8	<15.8	<15.8	-
East Floor	7'	11/17/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0010	<15.4	<15.4	<15.4	<15.4	-
East Sidewall	4'	11/17/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0010	<15.4	<15.4	<15.4	<15.4	-
West Floor	10'	11/17/10	In-Situ	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<15.3	17.4	<15.3	17.4	-
West Sidewall	6.5'	11/17/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0010	<15.6	<15.6	<15.6	<15.6	-
Release Point	11'	12/03/10	In-Situ	-	-	-	-	-	-	-	-	-	-	<5.12

TABLE 2
CHLORIDE FIELD-TEST RESULTS

PLAINS PIPELINE, L.P.
LEA FEDERAL 4-INCH POLY
LEA COUNTY, NEW MEXICO
PLAINS SRS#: 2010-206
NMOCD REFERENCE #: 1RP-2654

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	Hach Quantab
				CHLORIDE (PPM)
Release Point	11'	12/3/2010	In-Situ	ND
Release Point #2	11'	12/3/2010	In-Situ	ND
NMOCD Regulatory Standard				**500**

ND = "Non-detectable"; chloride concentration less than that measurable by Hach Quantab Chloride Low Range (30-600 mg/Kg) Titrator.

Analytical Report 397821

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Lea Federal 4" Poly

2010-206

29-NOV-10

Celebrating 20 Years of commitment to excellence in Environmental Testing Services

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-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 (LAO00312), 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-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL01273):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):
Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

29-NOV-10

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

Reference: XENCO Report No: **397821**
Lea Federal 4" Poly
Project Address: Lea 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 397821. 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. 397821 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 397821

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Federal 4" Poly

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Release Point	S	Nov-18-10 13:35		397821-001
South Sidewall	S	Nov-18-10 13:40		397821-002
South Floor	S	Nov-18-10 13:45		397821-003
East Floor	S	Nov-18-10 13:50		397821-004
East Sidewall	S	Nov-18-10 14:00		397821-005
North Sidewall	S	Nov-18-10 14:05		397821-006
North Floor	S	Nov-18-10 14:10		397821-007
West Sidewall	S	Nov-18-10 14:15		397821-008
West Floor	S	Nov-18-10 14:20		397821-009

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Lea Federal 4" Poly

Project ID:	*2010-206*	*Report Date:*	*29-NOV-10*
Work Order Number:	*397821*	*Date Received:*	*11/18/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-833642 BTEX by EPA 8021
SW8021BM

Batch 833642, Benzene, Ethylbenzene, Toluene, o-Xylene recovered below QC limits in the Matrix Spike. m_p-Xylenes recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 397821-003, -009, -002, -006, -004, -005, -007, -008, -001.
The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, m_p-Xylenes , o-Xylene is within laboratory Control Limits

SW8021BM

Batch 833642, m_p-Xylenes RPD was outside QC limits.
Samples affected are: 397821-003, -009, -002, -006, -004, -005, -007, -008, -001

Certificate of Analysis Summary 397821

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Federal 4" Poly

Project Id: 2010-206
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Thu Nov-18-10 04:00 pm
Report Date: 29-NOV-10
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	397821-001		397821-002		397821-003		397821-004		397821-005		397821-006	
	Field Id:	Release Point		South Sidewall		South Floor		East Floor		East Sidewall		North Sidewall	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-18-10 13:35		Nov-18-10 13:40		Nov-18-10 13:45		Nov-18-10 13:50		Nov-18-10 14:00		Nov-18-10 14:05	
BTEX by EPA 8021	*Extracted:*	Nov-24-10 15:45		Nov-24-10 15:45		Nov-24-10 15:45		Nov-24-10 15:45		Nov-24-10 15:45		Nov-24-10 15:45	
	Analyzed:	Nov-25-10 06:16		Nov-25-10 02:53		Nov-25-10 03:16		Nov-25-10 03:38		Nov-25-10 04:01		Nov-25-10 04:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0010	ND	0.0011	ND	0.0010	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	0.0010	ND	0.0011	ND	0.0010	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	0.0010	ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Xylenes, Total		ND	0.0010	ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Total BTEX		ND	0.0010	ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Percent Moisture	*Extracted:*												
	Analyzed:	Nov-20-10 09:30		Nov-20-10 09:30		Nov-20-10 09:30		Nov-20-10 09:30		Nov-20-10 09:30		Nov-20-10 09:30	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		3.79	1.00	4.91	1.00	3.63	1.00	2.53	1.00	2.70	1.00	1.80	1.00
TPH by SW8015 Mod	*Extracted:*	Nov-19-10 09:30		Nov-19-10 09:30		Nov-19-10 09:30		Nov-19-10 09:30		Nov-19-10 09:30		Nov-19-10 09:30	
	Analyzed:	Nov-19-10 13:14		Nov-19-10 13:33		Nov-19-10 13:53		Nov-19-10 14:12		Nov-19-10 14:30		Nov-19-10 14:50	
	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		21.9	15.6	ND	15.8	ND	15.5	ND	15.4	ND	15.4	ND	15.3
C12-C28 Diesel Range Hydrocarbons		108	15.6	ND	15.8	23.4	15.5	ND	15.4	ND	15.4	ND	15.3
C28-C35 Oil Range Hydrocarbons		ND	15.6	ND	15.8	ND	15.5	ND	15.4	ND	15.4	ND	15.3
Total TPH		130	15.6	ND	15.8	23.4	15.5	ND	15.4	ND	15.4	ND	15.3

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 397821

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Federal 4" Poly

Project Id: 2010-206
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Thu Nov-18-10 04:00 pm
Report Date: 29-NOV-10
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	397821-007		397821-008		397821-009					
	Field Id:	North Floor		West Sidewall		West Floor					
	Depth:										
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	Nov-18-10 14:10		Nov-18-10 14:15		Nov-18-10 14:20					
BTEX by EPA 8021	Extracted:	Nov-24-10 15:45		Nov-24-10 15:45		Nov-24-10 15:45					
	Analyzed:	Nov-25-10 05:53		Nov-25-10 08:32		Nov-25-10 08:54					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.0010	ND	0.0010	ND	0.0010				
Toluene		ND	0.0021	ND	0.0021	ND	0.0020				
Ethylbenzene		ND	0.0010	ND	0.0010	ND	0.0010				
m_p-Xylenes		ND	0.0021	ND	0.0021	ND	0.0020				
o-Xylene		ND	0.0010	ND	0.0010	ND	0.0010				
Xylenes, Total		ND	0.0010	ND	0.0010	ND	0.0010				
Total BTEX		ND	0.0010	ND	0.0010	ND	0.0010				
Percent Moisture	Extracted:										
	Analyzed:	Nov-20-10 09:30		Nov-20-10 09:30		Nov-20-10 09:30					
	Units/RL:	%	RL	%	RL	%	RL				
Percent Moisture		3.95	1.00	3.69	1.00	2.14	1.00				
TPH by SW8015 Mod	Extracted:	Nov-19-10 09:30		Nov-19-10 09:30		Nov-19-10 09:30					
	Analyzed:	Nov-19-10 15:09		Nov-19-10 15:47		Nov-19-10 16:07					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	15.6	ND	15.6	ND	15.3				
C12-C28 Diesel Range Hydrocarbons		ND	15.6	ND	15.6	17.4	15.3				
C28-C35 Oil Range Hydrocarbons		ND	15.6	ND	15.6	ND	15.3				
Total TPH		ND	15.6	ND	15.6	17.4	15.3				

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

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Lea Federal 4" Poly

Work Orders : 397821, **Project ID:** 2010-206

Lab Batch #: 833642 **Sample:** 589805-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/25/10 01:00

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0304	0.0300	101	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

Lab Batch #: 833642 **Sample:** 589805-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/25/10 01:23

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 833642 **Sample:** 589805-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/25/10 02:31

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	0.0291	0.0300	97	80-120	

Lab Batch #: 833642 **Sample:** 397821-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/10 02:53

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 833642 **Sample:** 397821-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/10 03:16

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	0.0305	0.0300	102	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: Lea Federal 4" Poly

Work Orders : 397821,

Project ID: 2010-206

Lab Batch #: 833642 **Sample:** 397821-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/10 03:38

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	0.0309	0.0300	103	80-120	

Lab Batch #: 833642 **Sample:** 397821-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/10 04:01

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

Lab Batch #: 833642 **Sample:** 397821-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/10 04:23

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 #: 833642 **Sample:** 397821-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/10 05:53

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0274	0.0300	91	80-120	
4-Bromofluorobenzene	0.0314	0.0300	105	80-120	

Lab Batch #: 833642 **Sample:** 397821-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/10 06:16

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	0.0318	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: Lea Federal 4" Poly

Work Orders : 397821,

Project ID: 2010-206

Lab Batch #: 833642 **Sample:** 397821-007 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/10 06:39

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene	0.0333	0.0300	111	80-120	

Lab Batch #: 833642 **Sample:** 397821-007 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/10 07:02

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0325	0.0300	108	80-120	

Lab Batch #: 833642 **Sample:** 397821-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/10 08:32

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0323	0.0300	108	80-120	

Lab Batch #: 833642 **Sample:** 397821-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/25/10 08:54

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0267	0.0300	89	80-120	
4-Bromofluorobenzene	0.0298	0.0300	99	80-120	

Lab Batch #: 832797 **Sample:** 589262-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/19/10 11:20

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	99.6	73	70-135	
o-Terphenyl	46.8	49.8	94	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: Lea Federal 4" Poly

Work Orders : 397821,

Project ID: 2010-206

Lab Batch #: 832797 **Sample:** 589262-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/19/10 11:40

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	40.0	50.1	80	70-135	

Lab Batch #: 832797 **Sample:** 589262-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/19/10 11:59

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	37.3	50.0	75	70-135	

Lab Batch #: 832797 **Sample:** 397821-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/19/10 13:14

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.5	100	74	70-135	
o-Terphenyl	36.6	50.0	73	70-135	

Lab Batch #: 832797 **Sample:** 397821-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/19/10 13:33

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	37.0	50.1	74	70-135	

Lab Batch #: 832797 **Sample:** 397821-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/19/10 13:53

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	99.5	71	70-135	
o-Terphenyl	35.8	49.8	72	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: Lea Federal 4" Poly

Work Orders : 397821,

Project ID: 2010-206

Lab Batch #: 832797 **Sample:** 397821-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/19/10 14:12

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	36.6	50.0	73	70-135	

Lab Batch #: 832797 **Sample:** 397821-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/19/10 14:30

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	99.9	73	70-135	
o-Terphenyl	35.5	50.0	71	70-135	

Lab Batch #: 832797 **Sample:** 397821-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/19/10 14:50

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	35.4	50.0	71	70-135	

Lab Batch #: 832797 **Sample:** 397821-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/19/10 15:09

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77.6	99.9	78	70-135	
o-Terphenyl	38.3	50.0	77	70-135	

Lab Batch #: 832797 **Sample:** 397821-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/19/10 15:47

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	72.8	100	73	70-135	
o-Terphenyl	36.0	50.0	72	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: Lea Federal 4" Poly

Work Orders : 397821,

Project ID: 2010-206

Lab Batch #: 832797 **Sample:** 397821-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/19/10 16:07

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77.6	100	78	70-135	
o-Terphenyl	37.1	50.0	74	70-135	

Lab Batch #: 832797 **Sample:** 397821-009 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/19/10 18:41

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	47.9	50.0	96	70-135	

Lab Batch #: 832797 **Sample:** 397821-009 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/19/10 19:00

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.5	100	74	70-135	
o-Terphenyl	48.7	50.0	97	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.

BS / BSD Recoveries

Project Name: Lea Federal 4" Poly

Work Order #: 397821 **Project ID:** 2010-206

Analyst: SEE **Date Prepared:** 11/24/2010 **Date Analyzed:** 11/25/2010

Lab Batch ID: 833642 **Sample:** 589805-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 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	0.0998	0.1062	106	0.0998	0.1022	102	4	70-130	35	
Toluene	ND	0.0998	0.0977	98	0.0998	0.0940	94	4	70-130	35	
Ethylbenzene	ND	0.0998	0.0963	96	0.0998	0.0932	93	3	71-129	35	
m_p-Xylenes	ND	0.1996	0.1898	95	0.1996	0.1863	93	2	70-135	35	
o-Xylene	ND	0.0998	0.0910	91	0.0998	0.0884	89	3	71-133	35	

Analyst: BEV **Date Prepared:** 11/19/2010 **Date Analyzed:** 11/19/2010

Lab Batch ID: 832797 **Sample:** 589262-1-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	996	965	97	1000	983	98	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	996	875	88	1000	914	91	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 / MSD Recoveries

Project Name: Lea Federal 4" Poly

Work Order # : 397821 **Project ID:** 2010-206

Lab Batch ID: 833642 **QC- Sample ID:** 397821-007 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/25/2010 **Date Prepared:** 11/24/2010 **Analyst:** SEE

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	0.0676	65	0.1039	0.0844	81	22	70-130	35	X
Toluene	ND	0.1039	0.0619	60	0.1039	0.0779	75	23	70-130	35	X
Ethylbenzene	ND	0.1039	0.0601	58	0.1039	0.0755	73	23	71-129	35	X
m_p-Xylenes	ND	0.2078	0.1243	60	0.2078	0.0615	30	68	70-135	35	XF
o-Xylene	ND	0.1039	0.0597	57	0.1039	0.0745	72	22	71-133	35	X

Lab Batch ID: 832797 **QC- Sample ID:** 397821-009 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/19/2010 **Date Prepared:** 11/19/2010 **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	1030	1010	98	1030	980	95	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	17.4	1030	938	89	1030	882	84	6	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 Federal 4" Poly

Work Order #: 397821

Lab Batch #: 832830 **Project ID:** 2010-206

Date Analyzed: 11/20/2010 **Date Prepared:** 11/20/2010 **Analyst:** JLG

QC- Sample ID: 397823-001 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	3.53	3.65	3	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

Xenco Laboratories

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: Ben Arguijo
Company Name: Basin Environmental Service Technologies, LLC
Company Address: P.O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: (575)396-2378 Fax No: (575) 396-1429
Sampler Signature:
e-mail: pm@basinenv.com

Project Name: Lea Federal 4" Poly
Project #: 2010-206
Project Loc: Lea County, NM
PO #: PAA-J. Henry
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 397821

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) 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 (TCLP: / TOTAL: X)	RCI	N.O.R.M.			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
01	Release Point			11/18/2010	1335		1	X								Soil	X														X
02	South Sidewall			11/18/2010	1340		1	X								Soil	X														X
03	South Floor			11/18/2010	1345		1	X								Soil	X														X
04	East Floor			11/18/2010	1350		1	X								Soil	X														X
05	East Sidewall			11/18/2010	1400		1	X								Soil	X														X
06	North Sidewall			11/18/2010	1405		1	X								Soil	X														X
07	North Floor			11/18/2010	1410		1	X								Soil	X														X
08	West Sidewall			11/18/2010	1415		1	X								Soil	X														X
09	West Floor			11/18/2010	1420		1	X								Soil	X														X

Special Instructions: Run TPH, Hold for BTEX

Relinquished by:	Date	Time	Received by:	Date	Time
	11/18/10	1215	Sofe Lowry	11/14/10	1213
Relinquished by: Sofe Lowry	11/18/10	400	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Elam	11-19-10	16.00

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	Y	N

by Sampler/Client Rep. ? by Courier? UPS DHL FedEx Lone Star
4oz glass
Temperature Upon Receipt: 4.1 °C

XENCO Laboratories

XENCO Laboratories
Atlanta, Boca Raton, Corpus Christi, Dallas
Houston, Miami, Odessa, Philadelphia
Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist
Document No.: SYS-SRC
Revision/Date: No. 01, 5/27/2010
Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Basin Env. / Plains
Date/Time: 11.18.10 16:00
Lab ID # : 397821
Initials: AE

Sample Receipt Checklist

1. Samples on ice?	Blue	(Water)	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(Yes)	No	N/A	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	(Yes)	No		
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		
11. Samples in proper container / bottle?	(Yes)	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	No	(N/A)	
17. VOC sample have zero head space?	(Yes)	No	N/A	

18. Cooler 1 No.		Cooler 2 No.		Cooler 3 No.		Cooler 4 No.		Cooler 5 No.	
lbs	4.1 °C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
- ☐ Initial and Backup Temperature confirm out of temperature conditions
- ☐ Client understands and would like to proceed with analysis

Analytical Report 400071

for

PLAINS ALL AMERICAN EH&S

Project Manager: Jason Henry

Lea Federal 4" Poly

2010-206

14-DEC-10

Celebrating 20 Years of commitment to excellence in Environmental Testing Services

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-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 (LAO00312), 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-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL01273):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):
Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

14-DEC-10

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

Reference: XENCO Report No: **400071**
Lea Federal 4" Poly
Project Address: Lea 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 400071. 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. 400071 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 400071

PLAINS ALL AMERICAN EH&S, Midland, TX

Lea Federal 4" Poly

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Release Point	S	Dec-03-10 10:00		400071-001

CASE NARRATIVE

Client Name: PLAINS ALL AMERICAN EH&S
Project Name: Lea Federal 4" Poly

Project ID:	*2010-206*	*Report Date:*	*14-DEC-10*
Work Order Number:	*400071*	*Date Received:*	*12/09/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Certificate of Analysis Summary 400071

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: Lea Federal 4" Poly

Project Id: 2010-206
Contact: Jason Henry
Project Location: Lea County, NM

Date Received in Lab: Thu Dec-09-10 04:00 pm
Report Date: 14-DEC-10
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	400071-001					
	Field Id:	Release Point					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Dec-03-10 10:00					
Inorganic Anions In Soil by E300	*Extracted:*						
	Analyzed:	Dec-10-10 08:21					
	Units/RL:	mg/kg	RL				
Chloride		ND	5.12				
Percent Moisture	*Extracted:*						
	Analyzed:	Dec-10-10 08:25					
	Units/RL:	%	RL				
Percent Moisture		2.43	1.00				

Brent Barron, II
Odessa Laboratory Manager

Final 1.000

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

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

BS / BSD Recoveries

Project Name: Lea Federal 4" Poly

Work Order #: 400071
Analyst: LATCOR
Lab Batch ID: 835486
Sample: 835486-1-BKS
Units: mg/kg

Date Prepared: 12/10/2010
Batch #: 1

Project ID: 2010-206
Date Analyzed: 12/10/2010
Matrix: Solid

	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Inorganic Anions In Soil by E300 **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**
Chloride	ND	10.0	9.04	90	10	9.00	90	0	75-125	20	

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 Federal 4" Poly

Work Order #: 400071

Lab Batch #: 835486

Project ID: 2010-206

Date Analyzed: 12/10/2010

Date Prepared: 12/10/2010

Analyst: LATCOR

QC- Sample ID: 399968-001 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	30600	21200	47300	79	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

BRL - Below Reporting Limit

Sample Duplicate Recovery

Project Name: Lea Federal 4" Poly

Work Order #: 400071

Lab Batch #: 835486 **Project ID:** 2010-206

Date Analyzed: 12/10/2010 08:21 **Date Prepared:** 12/10/2010 **Analyst:** LATCOR

QC- Sample ID: 399968-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions In Soil by E300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	30600	27200	12	20	

Lab Batch #: 835275

Date Analyzed: 12/10/2010 08:25 **Date Prepared:** 12/10/2010 **Analyst:** JLG

QC- Sample ID: 399951-001 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	3.34	3.80	13	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

Final 1.000

Xenco Laboratories

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: Ben Arguijo
Company Name: Basin Environmental Service Technologies, LLC
Company Address: P.O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: (575)396-2378 Fax No: (575) 396-1429
Sampler Signature:
e-mail: pm@basinenv.com

Project Name: Lea Federal 4" Poly
Project #: 2010-206
Project Loc: Lea County, NM
PO #: PAA-J. Henry
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 400071

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 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 (TCLP: / TOTAL: X)	RCI	N O R M	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT 4 DAY
01	Release Point			12/3/2010	1000		1	X								Soil												X		X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	12/9/2010			12/9/2010	
Relinquished by:	12/9/10	1500	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Elam	12.7.10	16:00 C.T.

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. ?	
by Courier? UPS DHL FedEx Lone Star	
402916SS	
Temperature Upon Receipt: 4.6 °C	

Final 1.000

Prelogin / Nonconformance Report - Sample Log-In

Client: Basin Env. / Plains
Date/Time: 12 9 10 16:00
Lab ID # : 400071
Initials: AE

Sample Receipt Checklist

1. Samples on ice?	Blue	(Water)	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(Yes)	No	N/A	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	(Yes)	No		
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		
11. Samples in proper container / bottle?	(Yes)	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	No	(N/A)	
17. VOC sample have zero head space?	(Yes)	No	N/A	

18. Cooler 1 No.		Cooler 2 No.		Cooler 3 No.		Cooler 4 No.		Cooler 5 No.	
lbs	4.6 °C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
- ☐ Initial and Backup Temperature confirm out of temperature conditions
- ☐ Client understands and would like to proceed with analysis

Lea Federal 4-Inch Poly Release Site (looking North)

Lea Federal 4-Inch Poly - Release Point

Lea Federal 4-Inch Poly - Excavation (looking South, sample locations flagged)

Lea Federal 4-Inch Poly - Excavation Floor (looking South, sample locations flagged)

Lea Federal 4-Inch Poly - Excavation (looking North)

Lea Federal 4-Inch Poly - Excavation (following backfill)