

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Plains Marketing, LP	Contact: Camille Bryant
Address: 2530 State Hwy. 214, Denver City, TX 79323	Telephone No. (575)441-1099
Facility Name: New Hobbs Station Tank 52956	Facility Type: Tank

Surface Owner: Plains Marketing, LP	Mineral Owner:	Lease No.
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LOCATION OF RELEASE

Unit Letter N	Section 15	Township 19S	Range 38E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude 32.65605° North Longitude 103.13809° West

NATURE OF RELEASE

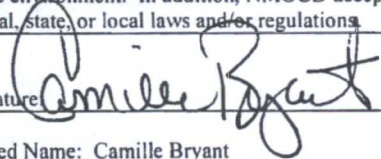

Type of Release Crude Oil	Volume of Release 5 bbls	Volume Recovered 0 bbls
Source of Release Tank	Date and Hour of Occurrence 01/29/2014 @ 01:30	Date and Hour of Discovery 01/29/2014 @ 01:31
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Verbal notification to Geoff Leking	
By Whom? Camille Bryant	Date and Hour 01/29/2014 @ 14:55	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Driver commenced unloading crude oil into tank 52956. During the unloading process, the lovejoy coupling failed on the ACT unit, and the ACT unit stopped moving oil. The driver was unaware of the failure and continued unloading crude oil and over-filled the tank, resulting in a release of crude oil.

Describe Area Affected and Cleanup Action Taken.* The released crude oil impacted an area inside the secondary containment measuring approximately 25' x 25'. The impacted area was remediated per NMOCD recommended guidelines to the extent practicable. Soil samples collected from the floor and sidewalls of the excavation were analyzed by an NMOCD-approved laboratory, and concentrations of benzene, BTEX, and chloride were below the recommended remediation action levels (RRAL's) established for the site by the NMOCD. Soil exhibiting TPH concentrations above the RRAL will be remediated upon decommission or abandonment of the currently active storage tank, pipes, and appurtenances. Please reference the attached *Remediation Summary & Risk-Based Site Closure Request* for remediation details.

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: 	OIL CONSERVATION DIVISION  Approved by Environmental Specialist	
Printed Name: Camille Bryant	Environmental Specialist	
Title: Remediation Coordinator	Approval Date: 07/01/14	Expiration Date: -
E-mail Address: cjbryant@paalp.com	Conditions of Approval: -	Attached <input type="checkbox"/>
Date: 7/1/14 Phone: (575)441-1099		

* Attach Additional Sheets If Necessary

IRP-2-14-3012

District I
1625 N. French Dr., Hobbs, NM 88240
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1301 W. Grand Avenue, Artesia, NM 88210
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State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Plains Marketing, LP	Contact	Camille Bryant
Address	2530 State Hwy. 214, Denver City, TX 79323	Telephone No.	(575) 441-1099
Facility Name	New Hobbs Station Tank 52956	Facility Type	Tank

Surface Owner	Plains Marketing, L.P.	Mineral Owner		Lease No.	
---------------	------------------------	---------------	--	-----------	--

LOCATION OF RELEASE API # 30 025 12803 JRL 2/4/14

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	15	19S	38E					Lea

Latitude N 32.65605° Longitude W 103.13809°

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	5 bbls	Volume Recovered	0 bbls
Source of Release	Tank	Date and Hour of Occurrence	01/29/2014 @ 01:30	Date and Hour of Discovery	01/29/2014 @ 01:31
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Verbal notification to Geoff Leking		
By Whom?	Camille Bryant	Date and Hour	01/29/2014 @ 14:55	HOBBS-OCD	
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	FEB 04 2014		

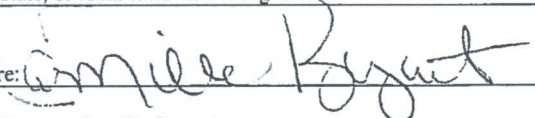
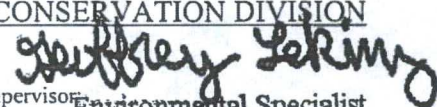
If a Watercourse was Impacted, Describe Fully.*

RECEIVED

Describe Cause of Problem and Remedial Action Taken.* Driver commenced unloading crude oil into tank 52956, during the unloading process the love joy coupling failed on the ACT unit and the ACT unit stopped moving oil, the driver was unaware of the failure and continued unloading crude oil and over filled the tank resulting in a release of crude oil.

Describe Area Affected and Cleanup Action Taken. The released crude oil impacted an area inside the secondary containment measuring approximately 25' X 25'. The impacted area will be remediated as per applicable 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: 	OIL CONSERVATION DIVISION	
Printed Name: Camille Bryant	Approved by District Supervisor:  Environmental Specialist	
Title: Remediation Coordinator	Approval Date: 2/4/14	Expiration Date: 4/4/14
E-mail Address: cjbryant@paalp.com	Conditions of Approval: SUBMIT FINAL C-141 BY 4/4/14	Attached <input type="checkbox"/>
Date: 2/4/14	Phone: (575) 441-1099	1RP-2-14-3012

* 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



REMEDIATION SUMMARY & RISK-BASED SITE CLOSURE REQUEST

**PLAINS MARKETING, LP
NEW HOBBS STATION TANK 52956
Plains SRS #2014-018
Lea County, New Mexico
Unit Letter "N" (SE/SW), Section 15, Township 19 South, Range 38 East
Latitude 32.65605° North, Longitude 103.13809° West
NMOCD Reference #1RP-02-14-3012**

Prepared For:

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

approved
Jeffrey Yekim
Environmental Specialist
NMOCD-015T1
7/01/14

Prepared By:

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

June 2014

Ben J. Arguijo
Project Manager

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Appendix B – Laboratory Analytical Reports

Appendix C – Soil Disposal Manifests

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

1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin Environmental), on behalf of Plains Marketing, LP (Plains), has prepared this *Remediation Summary & Risk-Based Site Closure Request* for the release site known as New Hobbs Station Tank 52956. The legal description of the release site is Unit Letter "N" (SE/SW), Section 15, Township 19 South, Range 38 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32.65605° North latitude and 103.13809° West longitude. The property affected by the release is owned by Plains. A "Site Location Map" is provided as Figure 1.

On January 29, 2014, Plains discovered a release had occurred at its New Hobbs Station facility. As crude oil was being transferred to Tank 52956 from a tanker truck, the lovejoy coupling on the Automatic Custody Transfer (ACT) unit failed. The driver was unaware of the failure and continued transferring crude oil, ultimately causing the tank to overfill, resulting in a release. The ACT unit was repaired during initial response activities.

The release was immediately reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office. The "Release Notification and Corrective Action" (Form C-141) indicated that approximately five barrels (5 bbls) of crude oil were released, with no recovery. The release was confined to the secondary containment area surrounding Tank 52956 and affected an area measuring approximately twenty-five feet (25') by twenty-five feet (25').

The Form C-141 is provided as Appendix D. General photographs of the site are provided as Appendix A.

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 depth-to-groundwater in Section 15, Township 19 South, Range 38 East is approximately fifty-seven feet (57') below ground surface (bgs). A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately thirty-five feet (35') to forty feet (40') bgs. Based on the NMOCD ranking system, twenty (20) points will be assigned to the site as a result of this criterion.

A search of the NMWRRS database indicated there are water wells within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, twenty (20) points will be assigned to the site as a result of this criterion.

There are no surface water bodies within one thousand feet (1,000') 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 New Hobbs Station Tank 52956 release site has an initial ranking score of forty (40) points. The soil remediation levels for a site with a ranking score of greater than nineteen (>19) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- Benzene, ethylbenzene, toluene, and xylenes (BTEX) – 50 mg/Kg (ppm)
- Total petroleum hydrocarbons (TPH) – 100 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 February 2, 2014, following initial response activities, excavation of impacted soil commenced at the site. Visual and olfactory senses were used to determine the horizontal extent of impacted soil and to guide the excavation. The vertical extent of the excavation was limited to approximately one and one-half feet (1.5') bgs due to the presence of an impenetrable rock layer underlying the release site. Excavated soil was stockpiled on-site, pending final disposition.

From February 4 through 5, 2014, approximately one hundred and eight cubic yards (108 yd³) of impacted material was transported to Sundance Services, Inc. (NMOCD Permit # NM-01-0003), for disposal. Copies of the soil disposal manifests are provided in Appendix C.

On February 12, 2014, five (5) soil samples (North Wall, South Wall, East Wall, West Wall, and Floor) were collected from the floor and sidewalls of the excavation and submitted to Xenco Laboratories, Inc., in Odessa, Texas, for analysis of BTEX and TPH concentrations using Environmental Protection Agency (EPA) Methods SW 846-8021b and SW 846-8015M, respectively. Soil sample Floor was also analyzed for chloride concentrations using EPA Method 300.1. Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory method detection limit (MDL) in all submitted soil samples. TPH concentrations ranged from 17.9 mg/kg in soil sample South Wall to 1,650 mg/kg in soil sample West Wall.

Table 1 summarizes the “Concentrations of Benzene, BTEX, TPH & Chloride in Soil”. Soil sample locations are depicted in Figure 2, “Site & Sample Location Map”. Laboratory analytical reports are provided as Appendix B.

Review of laboratory analytical results indicated additional excavation would be required in the areas represented by soil samples North Wall and East Wall. Further excavation in the area represented by soil sample West Wall was deemed impracticable due to the presence of active pipelines and electrical conduit adjacent to the excavation.

On March 7, 2014, representatives of Plains and Basin Environmental met with a representative of the NMOCD Hobbs District Office to discuss remediation activities conducted at the release site up to that point and to determine a path forward to an NMOCD-approved closure. Permission was requested to leave contaminated soil above the recommended remediation action level (RRAL) for TPH in-situ in the area represented by soil sample West Wall. The request was approved by the NMOCD representative.

On April 28, 2014, the excavation was advanced to the extent practicable in the areas represented by soil samples North Wall and East Wall. Two (2) confirmation soil samples (North Wall B and East Wall B) were collected from the sidewalls of the excavation and submitted to the laboratory for analysis of BTEX and TPH concentrations. Laboratory analytical results indicated BTEX constituent concentrations in both soil samples were less than the appropriate laboratory MDL. TPH concentrations ranged from 107 mg/kg in soil sample North Wall B to 151 mg/kg in soil sample East Wall B.

On April 29, 2014, an additional twelve cubic yards (12 yd³) of impacted soil was transferred to Sundance Services, Inc., for disposal.

On May 7, 2014, a representative of Basin Environmental contacted a representative of the NMOCD Hobbs District Office to request permission to leave soil represented by soil samples North Wall B and East Wall B in-situ and to backfill the excavation. The requests were approved by the NMOCD representative.

Based on laboratory analytical results, and with NMOCD approval, on May 8, 2014, the excavation was backfilled with locally obtained, non-impacted material, compacted, and contoured to fit the surrounding topography. Prior to backfilling, final dimensions of the excavation were approximately fifty-seven feet (57') in length, ranging in width from approximately fifteen feet (15') to approximately forty-four feet (44'), and varying in depth from approximately one foot (1') to one and one-half feet (1.5') bgs.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil Samples were delivered to Xenco Laboratories, Inc., in Odessa, Texas, for analysis of BTEX, TPH, and/or chloride concentrations 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 SW 846-8021b
- TPH concentrations in accordance with modified EPA Method SW 846-8015M
- 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 analytical reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Soil samples collected from the New Hobbs Station Tank 52956 release site were analyzed by an NMOCD-approved laboratory, and concentrations of benzene, BTEX, and chloride were below the RRAL's established for the site. Soil exhibiting TPH concentrations above the RRAL will be remediated upon decommission or abandonment of the currently active storage tank, pipes, and appurtenances.

Basin Environmental recommends Plains provide the NMOCD Hobbs District Office a copy of this *Remediation Summary & Risk-Based Site Closure Request* and request the NMOCD grant site closure to the New Hobbs Station Tank 52956 release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Risk-Based Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin Environmental has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. Basin Environmental has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental 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: Jeff Dann
Plains All American Pipeline, LP
333 Clay Street, Suite 1600
Houston, Texas 77002
jpdann@paalp.com
- Copy 3: Camille Bryant
Plains All American Pipeline, LP
2530 State Highway 214
Denver City, Texas 79323
cjbryant@paalp.com
- Copy 4: Basin Environmental Service Technologies, LLC
P.O. Box 301
Lovington, New Mexico 88260

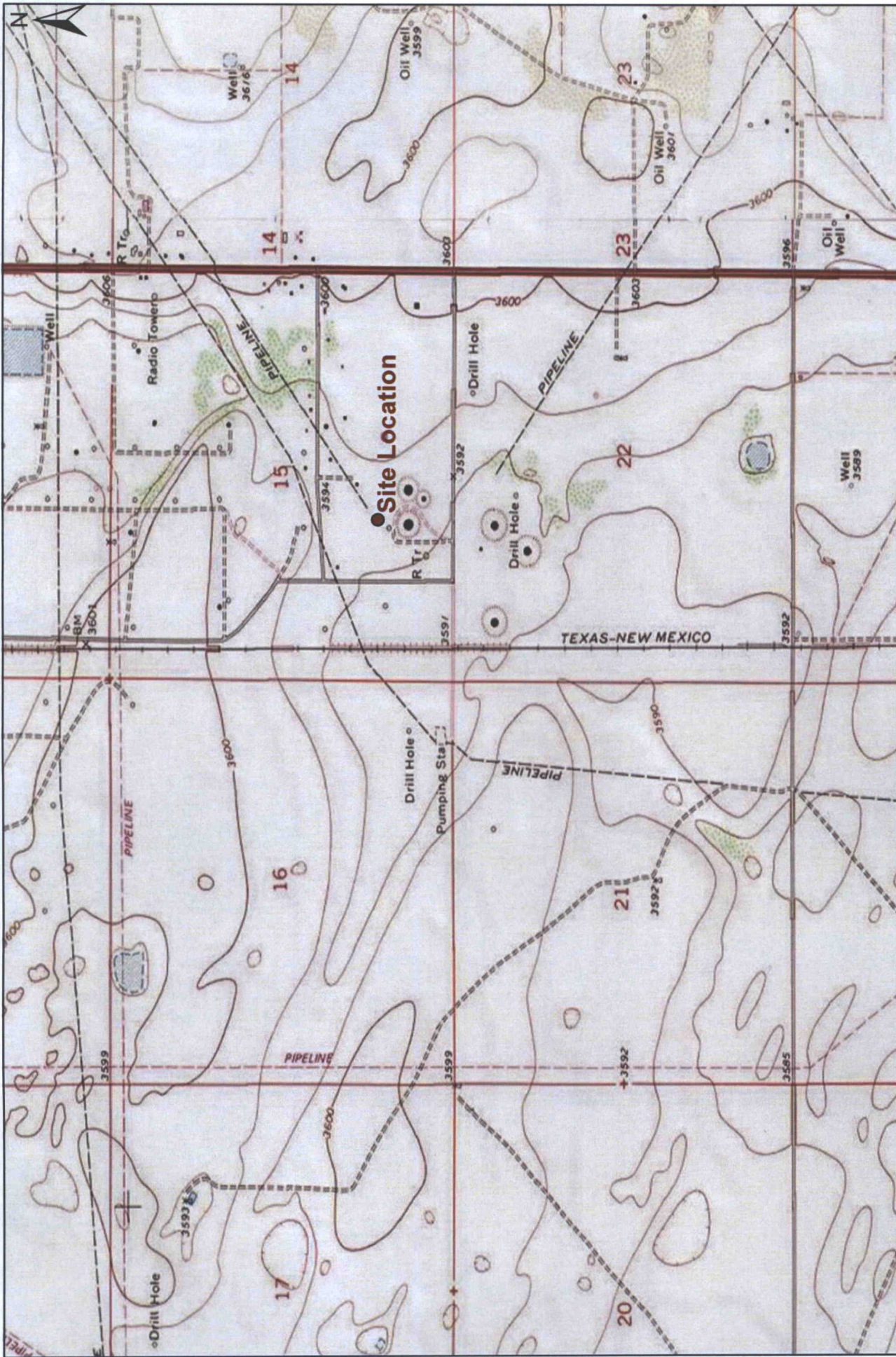


Figure 1
Site Location Map
 Plains Marketing, LP
 New Hobbs Station Tank 52956
 Lea County, New Mexico
 Plains SRS #: 2014-018
 NMOCD Reference #: 1RP-2-14-3012

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

1,000 500 0 1,000 2,000
 Distance in Feet

Drawn By: BJA Checked By: BRB
 January 31, 2014 Scale: 1" = 2,000'

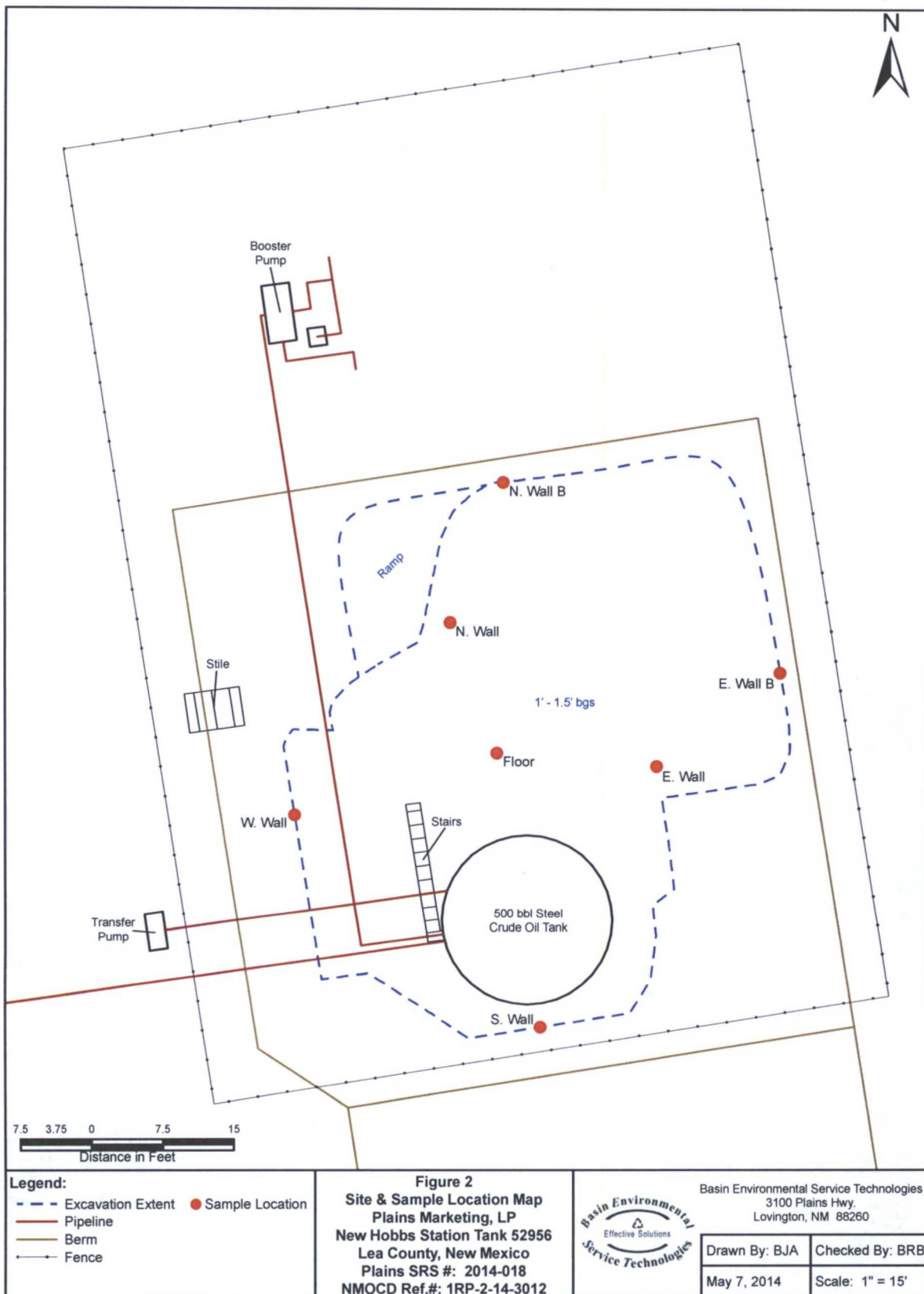


TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

PLAINS MARKETING, LP
NEW HOBBS STATION TANK 52956
LEA COUNTY, NEW MEXICO
PLAINS SRS #: 2014-018
NMOCD REFERENCE #: 1RP-2-14-3012

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M				TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	300.1 CHLORIDE (mg/Kg)
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M.P. - XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL XYLENES (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)		
North Wall	1'	2/12/2014	Excavated	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<0.0023	<17.4	356	63.1	419	-
South Wall	1'	2/12/2014	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<0.0023	<17.6	17.9	<17.6	17.9	-
East Wall	1'	2/12/2014	Excavated	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<0.0023	<17.0	500	84.0	584	-
West Wall	1'	2/12/2014	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<0.0023	<17.3	1,470	178	1,650	-
Floor	1.5'	2/12/2014	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<0.0022	<16.5	69.4	<16.5	69.4	17.7
North Wall B	1'	4/28/2014	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<0.0022	<16.2	107	<16.2	107	-
East Wall B	1'	4/28/2014	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<0.0021	<15.6	151	<15.6	151	-
NMOCD Recommended Remediation Action Level			10											100	250

- = Not analyzed.



New Hobbs Station Tank 52956 - Release Site (Looking Southeast)



New Hobbs Station Tank 52956 - Release Site (Looking Southwest)



New Hobbs Station Tank 52956 - Release Site (Looking Southeast)



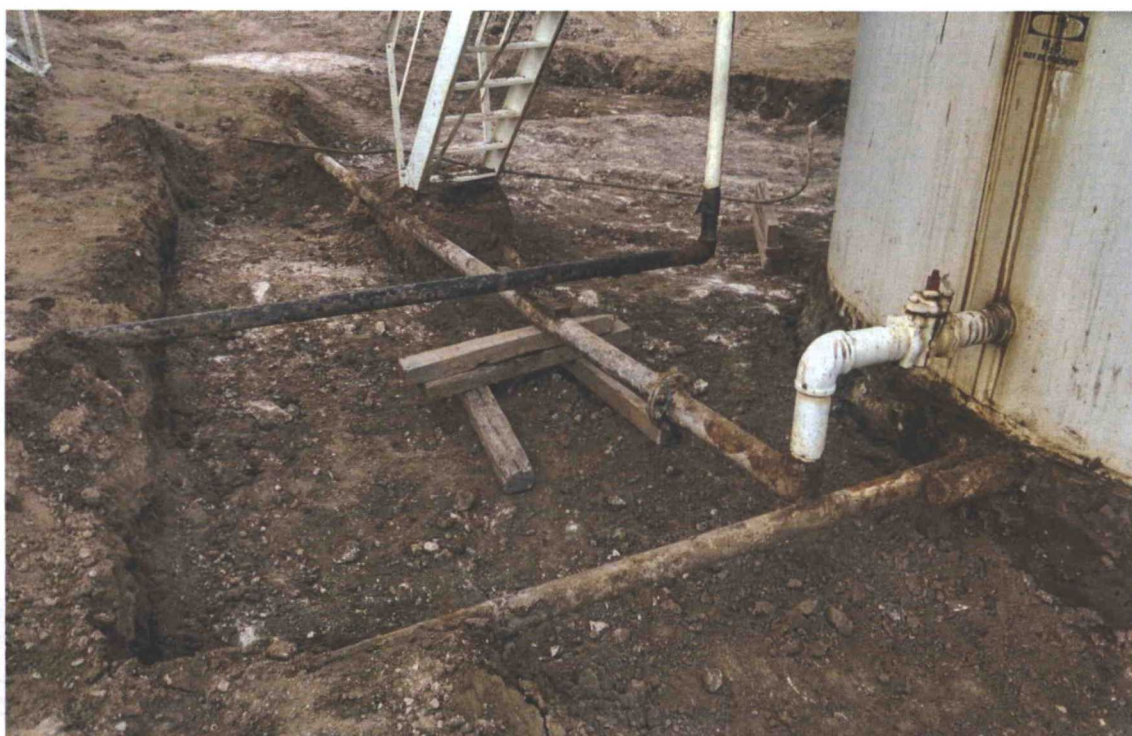
New Hobbs Station Tank 52956 - Release Site (Looking East)



New Hobbs Station Tank 52956 – Initial Excavation (Looking South-Southeast)



New Hobbs Station Tank 52956 – Initial Excavation, North & East Walls (Looking Southeast)



New Hobbs Station Tank 52956 – Excavation (West Side of Tank)



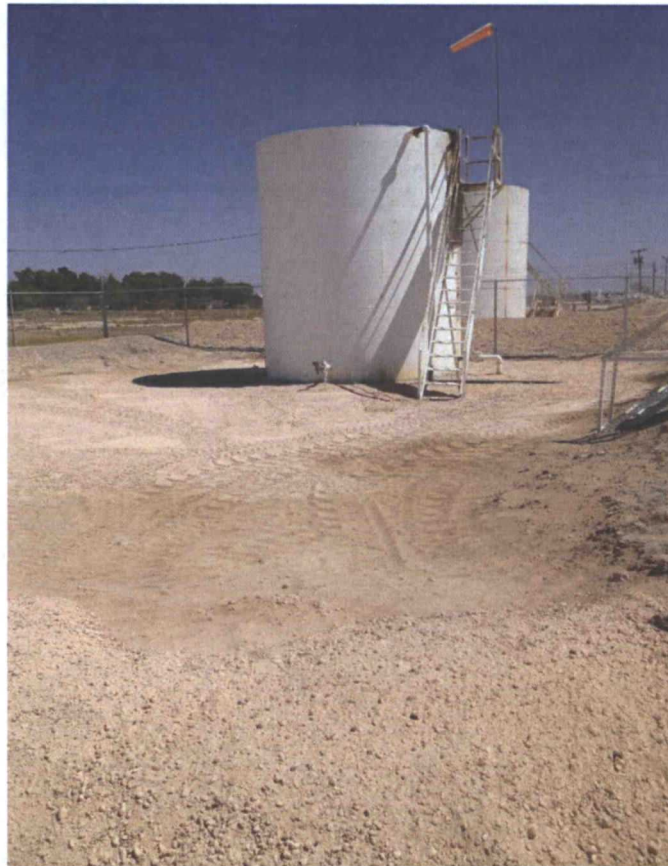
New Hobbs Station Tank 52956 - Excavation (West & South Sides of Tank)



New Hobbs Station Tank 52956 – Initial Excavation (East Side of Tank)



New Hobbs Station Tank 52956 – Supplemental Excavation,
North & East Walls (Looking East)



New Hobbs Station Tank 52956 – Backfilled Excavation
(Looking South-Southeast)

Analytical Report 479265
for
PLAINS ALL AMERICAN EH&S

Project Manager: Ben Arguijo

New Hobbs Station Tank 52956

SRS #2018-014

24-FEB-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



24-FEB-14

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

Reference: XENCO Report No(s): **479265**
New Hobbs Station Tank 52956
Project Address: NM

Ben Arguijo:

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(s) 479265. 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. The uncertainty of measurement associated with the results of analysis reported is available upon request. 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. 479265 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,

Kelsey Brooks
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 479265



PLAINS ALL AMERICAN EH&S, Midland, TX

New Hobbs Station Tank 52956

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor	S	02-12-14 12:15		479265-001
N Wall	S	02-12-14 12:20		479265-002
S Wall	S	02-12-14 12:25		479265-003
E Wall	S	02-12-14 12:30		479265-004
W Wall	S	02-12-14 12:35		479265-005



CASE NARRATIVE



Client Name: PLAINS ALL AMERICAN EH&S

Project Name: New Hobbs Station Tank 52956

Project ID: SRS #2018-014
Work Order Number(s): 479265

Report Date: 24-FEB-14
Date Received: 02/12/2014

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-934572 BTEX by EPA 8021B

Benzene, Ethylbenzene, Toluene, m_p-Xylenes , o-Xylene recovered below QC limits in the Matrix Spike.

Samples affected are: 479265-004, -003, -001, -005, -002.

The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, m_p-Xylenes , o-Xylene is within laboratory Control Limits

Certificate of Analysis Summary 479265

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: New Hobbs Station Tank 52956

Project Id: SRS #2018-014

Contact: Ben Arguijo

Project Location: NM

Date Received in Lab: Wed Feb-12-14 03:30 pm

Report Date: 24-FEB-14

Project Manager: Kelsey Brooks

Analysis Requested		Lab Id:	479265-001	479265-002	479265-003	479265-004	479265-005
Field Id:	Depth:	Floor	N Wall	S Wall	E Wall	W Wall	
Matrix:		SOLID	SOLID	SOLID	SOLID	SOLID	
Sampled:		Feb-12-14 12:15	Feb-12-14 12:20	Feb-12-14 12:25	Feb-12-14 12:30	Feb-12-14 12:35	
BTEX by EPA 8021B	Extracted:	Feb-20-14 17:00	Feb-20-14 17:00	Feb-20-14 17:00	Feb-20-14 17:00	Feb-20-14 17:00	Feb-20-14 17:00
	Analyzed:	Feb-21-14 14:55	Feb-21-14 14:39	Feb-21-14 14:23	Feb-21-14 14:07	Feb-21-14 13:51	Feb-21-14 13:51
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
		ND 0.00110	ND 0.00116	ND 0.00116	ND 0.00113	ND 0.00115	ND 0.00115
		ND 0.00220	ND 0.00232	ND 0.00233	ND 0.00226	ND 0.00231	ND 0.00231
Toluene		ND 0.00110	ND 0.00116	ND 0.00116	ND 0.00113	ND 0.00115	ND 0.00115
		ND 0.00220	ND 0.00232	ND 0.00233	ND 0.00226	ND 0.00231	ND 0.00231
		ND 0.00110	ND 0.00116	ND 0.00116	ND 0.00113	ND 0.00115	ND 0.00115
		ND 0.00220	ND 0.00232	ND 0.00233	ND 0.00226	ND 0.00231	ND 0.00231
		ND 0.00110	ND 0.00116	ND 0.00116	ND 0.00113	ND 0.00115	ND 0.00115
Total Xylenes		ND 0.00110	ND 0.00116	ND 0.00116	ND 0.00113	ND 0.00115	ND 0.00115
		ND 0.00220	ND 0.00232	ND 0.00233	ND 0.00226	ND 0.00231	ND 0.00231
		ND 0.00110	ND 0.00116	ND 0.00116	ND 0.00113	ND 0.00115	ND 0.00115
		ND 0.00220	ND 0.00232	ND 0.00233	ND 0.00226	ND 0.00231	ND 0.00231
		ND 0.00110	ND 0.00116	ND 0.00116	ND 0.00113	ND 0.00115	ND 0.00115
Total BTEX		ND 0.00110	ND 0.00116	ND 0.00116	ND 0.00113	ND 0.00115	ND 0.00115
Inorganic Anions by EPA 300/300.1		Feb-17-14 10:00					
Chloride	Extracted:	Feb-18-14 01:33					
	Analyzed:	mg/kg RL					
	Units/RL:	17.7 4.41					
Percent Moisture		Feb-17-14 10:50	Feb-17-14 10:50	Feb-17-14 10:20	Feb-17-14 10:20	Feb-17-14 10:20	Feb-17-14 10:20
Percent Moisture	Extracted:	% RL	% RL	% RL	% RL	% RL	% RL
	Analyzed:	9.25 1.00	14.3 1.00	14.7 1.00	11.6 1.00	13.6 1.00	13.6 1.00
	Units/RL:						
TPH By SW8015 Mod		Feb-14-14 17:00	Feb-14-14 17:00	Feb-14-14 17:00	Feb-14-14 17:00	Feb-14-14 17:00	Feb-14-14 17:00
C6-C12 Gasoline Range Hydrocarbons	Extracted:	Feb-15-14 20:16	Feb-15-14 20:45	Feb-15-14 21:13	Feb-15-14 21:40	Feb-15-14 22:07	Feb-15-14 22:07
	Analyzed:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	Units/RL:	ND 16.5	ND 17.4	ND 17.6	ND 17.0	ND 17.3	ND 17.3
		69.4 16.5	356 17.4	17.9 17.6	500 17.0	1470 17.3	1470 17.3
		ND 16.5	63.1 17.4	ND 17.6	84.0 17.0	178 17.3	178 17.3
Total TPH		69.4 16.5	419 17.4	17.9 17.6	584 17.0	1650 17.3	1650 17.3

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Kelsey Brooks
Project Manager

- 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 affect the recovery of the spike concentration. This condition could also affect 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 quantitation limit and above the detection limit.
- 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.
- **** Surrogate recovered outside laboratory control limit.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- MDL** Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection
- PQL** Practical Quantitation Limit **SQL** Sample Quantitation Limit **LOQ** Limit of Quantitation
- DL** Method Detection Limit
- NC** Non-Calculable
- +** NELAC certification not offered for this compound.
- *** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(770) 449-8800	(770) 449-5477
(602) 437-0330	



Form 2 - Surrogate Recoveries
Project Name: New Hobbs Station Tank 52956

Work Orders : 479265,

Project ID: SRS #2018-014

Lab Batch #: 934203

Sample: 479265-001 / SMP

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 02/15/14 20:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.5	99.6	98	70-135	
o-Terphenyl	51.5	49.8	103	70-135	

Lab Batch #: 934203

Sample: 479265-002 / SMP

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 02/15/14 20:45

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.6	99.6	99	70-135	
o-Terphenyl	50.9	49.8	102	70-135	

Lab Batch #: 934203

Sample: 479265-003 / SMP

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 02/15/14 21:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.7	99.8	95	70-135	
o-Terphenyl	50.0	49.9	100	70-135	

Lab Batch #: 934203

Sample: 479265-004 / SMP

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 02/15/14 21:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.5	100	96	70-135	
o-Terphenyl	48.9	50.0	98	70-135	

Lab Batch #: 934203

Sample: 479265-005 / SMP

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 02/15/14 22:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	99.9	117	70-135	
o-Terphenyl	59.4	50.0	119	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: New Hobbs Station Tank 52956

Work Orders : 479265,

Lab Batch #: 934572

Sample: 479265-005 / SMP

Project ID: SRS #2018-014

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/21/14 13:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	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	0.0272	0.0300	91	80-120	

Lab Batch #: 934572

Sample: 479265-004 / SMP

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/21/14 14:07

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 934572

Sample: 479265-003 / SMP

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/21/14 14:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B 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	0.0288	0.0300	96	80-120	

Lab Batch #: 934572

Sample: 479265-002 / SMP

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/21/14 14:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0265	0.0300	88	80-120	
4-Bromofluorobenzene	0.0241	0.0300	80	80-120	

Lab Batch #: 934572

Sample: 479265-001 / SMP

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/21/14 14:55

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B 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	0.0276	0.0300	92	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: New Hobbs Station Tank 52956

Work Orders : 479265,

Project ID: SRS #2018-014

Lab Batch #: 934203

Sample: 651156-1-BLK / BLK

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 02/14/14 17:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	60.6	50.0	121	70-135	

Lab Batch #: 934572

Sample: 651408-1-BLK / BLK

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 02/21/14 12:47

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B 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	0.0266	0.0300	89	80-120	

Lab Batch #: 934203

Sample: 651156-1-BKS / BKS

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 02/14/14 18:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	121	100	121	70-135	
o-Terphenyl	53.8	50.0	108	70-135	

Lab Batch #: 934572

Sample: 651408-1-BKS / BKS

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 02/21/14 11:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 934203

Sample: 651156-1-BSD / BSD

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 02/14/14 20:22

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.1	100	95	70-135	
o-Terphenyl	58.2	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.



Form 2 - Surrogate Recoveries

Project Name: New Hobbs Station Tank 52956

Work Orders : 479265,

Lab Batch #: 934572

Sample: 651408-1-BSD / BSD

Project ID: SRS #2018-014

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/21/14 11:28

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	80-120	
4-Bromofluorobenzene	0.0321	0.0300	107	80-120	

Lab Batch #: 934203

Sample: 478920-007 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/14/14 22:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.3	99.9	98	70-135	
o-Terphenyl	58.3	50.0	117	70-135	

Lab Batch #: 934572

Sample: 479265-005 S / MS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 02/21/14 11:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 934203

Sample: 478920-007 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 02/15/14 13:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.6	99.9	92	70-135	
o-Terphenyl	57.4	50.0	115	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.

Work Order #: 479265

Analyst: ARM

Lab Batch ID: 934572

Units: mg/kg

Project ID: SRS #2018-014

Date Analyzed: 02/21/2014

Matrix: Solid

Date Prepared: 02/20/2014

Batch #: 1

Sample: 651408-1-BKS

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	BTEX by EPA 8021B										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.108	108	0.100	0.109	109	1	70-130	35	
Toluene	<0.00200	0.100	0.108	108	0.100	0.109	109	1	70-130	35	
Ethylbenzene	<0.00100	0.100	0.106	106	0.100	0.107	107	1	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.207	104	0.200	0.210	105	1	70-135	35	
o-Xylene	<0.00100	0.100	0.108	108	0.100	0.109	109	1	71-133	35	

Date Prepared: 02/17/2014

Date Analyzed: 02/17/2014

Batch #: 1

Matrix: Solid

Sample: 651130-1-BKS

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Inorganic Anions by EPA 300/300.1										
	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	<2.00	50.0	49.4	99	50.0	49.6	99	0	80-120	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

Work Order #: 479265

Analyst: ARM

Lab Batch ID: 934203

Units: mg/kg

Date Prepared: 02/14/2014

Batch #: 1

Sample: 651156-1-BKS

Project ID: SRS #2018-014

Date Analyzed: 02/14/2014

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	950	95	1000	856	86	10	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	1040	104	1000	863	86	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 Recoveries



Project Name: New Hobbs Station Tank 52956

Work Order #: 479265

Lab Batch #: 934572

Date Analyzed: 02/21/2014

QC- Sample ID: 479265-005 S

Reporting Units: mg/kg

Project ID: SRS #2018-014

Date Prepared: 02/20/2014

Analyst: ARM

Batch #: 1

Matrix: Solid

MATRIX / MATRIX SPIKE RECOVERY STUDY						
BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Benzene	<0.00115	0.115	0.0569	49	70-130	X
Toluene	<0.00231	0.115	0.0551	48	70-130	X
Ethylbenzene	<0.00115	0.115	0.0474	41	71-129	X
m_p-Xylenes	<0.00231	0.231	0.0984	43	70-135	X
o-Xylene	<0.00115	0.115	0.0491	43	71-133	X

Lab Batch #: 934251

Date Analyzed: 02/17/2014

Date Prepared: 02/17/2014

Analyst: AMB

QC- Sample ID: 479262-001 S

Batch #: 1

Matrix: Solid

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	3.22	54.3	55.0	95	80-120	

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

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: New Hobbs Station Tank 52956

Work Order #: 479265
Lab Batch ID: 934203
Date Analyzed: 02/14/2014
Reporting Units: mg/kg

QC- Sample ID: 478920-007 S
Date Prepared: 02/14/2014
Batch #: 1
Matrix: Soil
Analyst: ARM

Project ID: SRS #2018-014

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<17.2	1140	950	83	1140	942	83	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	19.2	1140	999	86	1140	1150	99	14	70-135	35	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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

Project Name: New Hobbs Station Tank 52956

Work Order #: 479265

Lab Batch #: 934151

Project ID: SRS #2018-014

Date Analyzed: 02/17/2014 10:50

Date Prepared: 02/17/2014

Analyst: WRU

QC- Sample ID: 479262-001 D

Batch #: 1

Matrix: Solid

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	7.96	8.90	11	20	

Lab Batch #: 934151

Date Analyzed: 02/17/2014 10:50

Date Prepared: 02/17/2014

Analyst: WRU

QC- Sample ID: 479262-011 D

Batch #: 1

Matrix: Solid

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	2.17	2.17	0	20	

Lab Batch #: 934157

Date Analyzed: 02/17/2014 10:20

Date Prepared: 02/17/2014

Analyst: WRU

QC- Sample ID: 479361-021 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	14.8	14.5	2	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

CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800
brook-c

Page 1 of 1

LAB W.O # :

Field billable Hrs :

Company: Basin Environmental Service Technologies, LLC
Phone: (575)396-2378

Address: 3100 Plains Hwy.

City: Lovington

PM/Attn:

Don't miss

Project ID: New Hobbs Station Tank 52956
SPS #2018-014

Invoice To:

Camille Bryant Plains All American

Sampler Signature:

11

#

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[illegible]

100

1	Floor	2/12/14	12/5
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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11. 11. 2021

[illegible]

4	F 11.11	1029
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[illegible][illegible]

6

[illegible][illegible]

8

[illegible][illegible][illegible]

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers / Temp
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[illegible]

	ALL NEW JOURNAL	NEWSPAPER JOURNAL	PROFESSIONAL JOURNAL	DATE	TIME		
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time

1	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	W.S.	2/1/76	02.51
1	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	W.S.	2/1/76	02.51

[illegible][illegible]

Well ID	Depth (ft)	Water Level (ft)	pH	Temperature (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	Total Dissolved Solids (mg/L)	Ammonia Nitrogen (mg/L)	Nitrate Nitrogen (mg/L)	Phosphate (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium + Potassium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Manganese (mg/L)	Mercury (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Vanadium (mg/L)	Zinc (mg/L)	Other Contaminants	Notes	
1	10	10.5	7.2	15.0	150	2.0	10	0.1	1.0	0.01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2	15	15.2	7.1	15.5	155	2.1	11	0.1	1.1	0.01	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
3	20	20.1	7.3	16.0	160	2.2	12	0.1	1.2	0.01	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
4	25	25.0	7.4	16.5	165	2.3	13	0.1	1.3	0.01	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	
5	30	30.0	7.5	17.0	170	2.4	14	0.1	1.4	0.01	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	
6	35	35.0	7.6	17.5	175	2.5	15	0.1	1.5	0.01	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
7	40	40.0	7.7	18.0	180	2.6	16	0.1	1.6	0.01	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
8	45	45.0	7.8	18.5	185	2.7	17	0.1	1.7	0.01	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
9	50	50.0	7.9	19.0	190	2.8	18	0.1	1.8	0.01	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
10	55	55.0	8.0	19.5	195	2.9	19	0.1	1.9	0.01	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	
11	60	60.0	8.1	20.0	200	3.0	20	0.1	2.0	0.01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
12	65	65.0	8.2	20.5	205	3.1	21	0.1	2.1	0.01	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
13	70	70.0	8.3	21.0	210	3.2	22	0.1	2.2	0.01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	
14	75	75.0	8.4	21.5	215	3.3	23	0.1	2.3	0.01	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
15	80	80.0	8.5	22.0	220	3.4	24	0.1	2.4	0.01	24	24	24	24	24</															

4 Received on time to meet HIS?

B&A Laboratories: Hobbs 575-392-7550 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330

FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.

Revision Date: Nov 12, 2009



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: PLAINS ALL AMERICAN EH&S

Date/ Time Received: 02/12/2014 03:30:00 PM

Work Order #: 479265

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	N/A
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ?	N/A
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by:

Ruriko Konuma

Date: 02/13/2014

Checklist reviewed by:

Kelsey Brooks

Date: 02/13/2014

Analytical Report 484389
for
PLAINS ALL AMERICAN EH&S

Project Manager: Ben Arguijo

New Hobbs Station Tank 52956

2014-018

06-MAY-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



06-MAY-14

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

Reference: XENCO Report No(s): **484389**
New Hobbs Station Tank 52956
Project Address: Lovington, NM

Ben Arguijo:

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(s) 484389. 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. The uncertainty of measurement associated with the results of analysis reported is available upon request. 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. 484389 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,

Kelsey Brooks
Project Manager

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Sample Cross Reference 484389



PLAINS ALL AMERICAN EH&S, Midland, TX

New Hobbs Station Tank 52956

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North Wall B	S	04-28-14 14:00		484389-001
East Wall B	S	04-28-14 14:10		484389-002



CASE NARRATIVE



Client Name: *PLAINS ALL AMERICAN EH&S*

Project Name: *New Hobbs Station Tank 52956*

Project ID: 2014-018
Work Order Number(s): 484389

Report Date: 06-MAY-14
Date Received: 04/29/2014

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 484389

PLAINS ALL AMERICAN EH&S, Midland, TX

Project Name: New Hobbs Station Tank 52956



Project Id: 2014-018
 Contact: Ben Arguijo
 Project Location: Lovington, NM

Date Received in Lab: Tue Apr-29-14 12:19 pm
 Report Date: 06-MAY-14
 Project Manager: Kelsey Brooks

<i>Analysis Requested</i>		Lab Id: Field Id: Depth: Matrix: Sampled:	484389-001 North Wall B SOIL Apr-28-14 14:00	484389-002 East Wall B SOIL Apr-28-14 14:10		
BTEX by EPA 8021B	Extracted:	May-05-14 10:00	May-05-14 10:00	May-05-14 10:00		
	Analyzed:	May-05-14 14:32	May-05-14 14:32	May-05-14 14:15		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL		
	Benzene	ND 0.00108	ND 0.00108	ND 0.00104		
	Toluene	ND 0.00217	ND 0.00217	ND 0.00208		
Percent Moisture	Ethylbenzene	ND 0.00108	ND 0.00108	ND 0.00104		
	m p-Xylenes	ND 0.00217	ND 0.00217	ND 0.00208		
	o-Xylene	ND 0.00108	ND 0.00108	ND 0.00104		
	Total Xylenes	ND 0.00108	ND 0.00108	ND 0.00104		
	Total BTEX	ND 0.00108	ND 0.00108	ND 0.00104		
TPH By SW8015 Mod	Extracted:	May-01-14 15:00	May-01-14 15:00	May-01-14 15:00		
	Analyzed:	May-01-14 16:00	May-01-14 16:00	May-01-14 16:00		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL		
Percent Moisture	C6-C12 Gasoline Range Hydrocarbons	ND 16.2	ND 16.2	ND 15.6		
	C12-C28 Diesel Range Hydrocarbons	107 16.2	107 16.2	151 15.6		
	C28-C35 Oil Range Hydrocarbons	ND 16.2	ND 16.2	ND 15.6		
	Total TPH	107 16.2	107 16.2	151 15.6		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi



Kelsey Brooks
 Project Manager

- 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 affect the recovery of the spike concentration. This condition could also affect 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 quantitation limit and above the detection limit.
- 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.
- **** Surrogate recovered outside laboratory control limit.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- MDL** Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection
- PQL** Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation
- DL** Method Detection Limit
- NC** Non-Calculable
- +** NELAC certification not offered for this compound.
- *** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 2505 North Falkenburg Rd, Tampa, FL 33619
 12600 West I-20 East, Odessa, TX 79765
 6017 Financial Drive, Norcross, GA 30071
 3725 E. Atlanta Ave, Phoenix, AZ 85040

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: New Hobbs Station Tank 52956

Work Orders : 484389,

Lab Batch #: 939996

Sample: 484389-001 / SMP

Project ID: 2014-018

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/01/14 19:34

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	99.8	116	70-135	
o-Terphenyl	52.0	49.9	104	70-135	

Lab Batch #: 939996

Sample: 484389-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/01/14 19:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.7	101	70-135	
o-Terphenyl	48.1	49.9	96	70-135	

Lab Batch #: 940111

Sample: 484389-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/05/14 14:15

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0258	0.0300	86	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 940111

Sample: 484389-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/05/14 14:32

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B 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	0.0303	0.0300	101	80-120	

Lab Batch #: 939996

Sample: 654882-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/01/14 17:55

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	52.6	50.0	105	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: New Hobbs Station Tank 52956

Work Orders : 484389,

Lab Batch #: 940111

Sample: 654955-1-BLK / BLK

Project ID: 2014-018

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/05/14 12:02

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0261	0.0300	87	80-120	
4-Bromofluorobenzene	0.0307	0.0300	102	80-120	

Lab Batch #: 939996

Sample: 654882-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/01/14 18:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	56.2	50.0	112	70-135	

Lab Batch #: 940111

Sample: 654955-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/05/14 12:18

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0300	0.0300	100	80-120	
4-Bromofluorobenzene	0.0348	0.0300	116	80-120	

Lab Batch #: 939996

Sample: 654882-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/01/14 18:46

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	58.5	50.0	117	70-135	

Lab Batch #: 940111

Sample: 654955-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/05/14 12:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0300	0.0300	100	80-120	
4-Bromofluorobenzene	0.0359	0.0300	120	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: New Hobbs Station Tank 52956

Work Orders : 484389,

Lab Batch #: 939996

Sample: 484442-001 S / MS

Project ID: 2014-018

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/01/14 21:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	59.4	50.0	119	70-135	

Lab Batch #: 940111

Sample: 484293-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/05/14 12:52

SURROGATE RECOVERY STUDY

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

Lab Batch #: 939996

Sample: 484442-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/01/14 21:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99.9	109	70-135	
o-Terphenyl	54.3	50.0	109	70-135	

Lab Batch #: 940111

Sample: 484293-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/05/14 13:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0298	0.0300	99	80-120	
4-Bromofluorobenzene	0.0346	0.0300	115	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.

Project Name: New Hobbs Station Tank 52956
Work Order #: 484389
Analyst: ARM
Lab Batch ID: 940111
Units: mg/kg
Date Prepared: 05/05/2014
Sample: 654955-1-BKS
Batch #: 1
Project ID: 2014-018
Date Analyzed: 05/05/2014
Matrix: Solid
BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										Flag
	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	
BTEX by EPA 8021B											
Benzene	<0.00100	0.100	0.101	101	0.100	0.102	102	1	70-130	35	
Toluene	<0.00200	0.100	0.101	101	0.100	0.102	102	1	70-130	35	
Ethylbenzene	<0.00100	0.100	0.108	108	0.100	0.110	110	2	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.223	112	0.200	0.227	114	2	70-135	35	
o-Xylene	<0.00100	0.100	0.112	112	0.100	0.114	114	2	71-133	35	

Date Prepared: 05/01/2014
Date Analyzed: 05/01/2014
Analyst: ARM
Lab Batch ID: 939996
Sample: 654882-1-BKS
Batch #: 1
Matrix: Solid
BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										Flag
	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	
TPH By SW8015 Mod											
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	934	93	1000	896	90	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	993	99	1000	937	94	6	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: New Hobbs Station Tank 52956

Work Order #: 484389
 Lab Batch ID: 940111
 Date Analyzed: 05/05/2014
 Reporting Units: mg/kg
 Project ID: 2014-018
 QC- Sample ID: 484293-001 S
 Batch #: 1
 Matrix: Soil
 Date Prepared: 05/05/2014
 Analyst: ARM

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B		Analytes									
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00139	0.139	0.133	96	0.139	0.130	94	2	70-130	35	
Toluene	<0.00278	0.139	0.134	96	0.139	0.131	94	2	70-130	35	
Ethylbenzene	<0.00139	0.139	0.143	103	0.139	0.140	101	2	71-129	35	
m_p-Xylenes	<0.00278	0.278	0.296	106	0.278	0.289	104	2	70-135	35	
o-Xylene	<0.00139	0.139	0.147	106	0.139	0.144	104	2	71-133	35	

Lab Batch ID: 939996
 Date Analyzed: 05/01/2014
 Reporting Units: mg/kg
 QC- Sample ID: 484442-001 S
 Batch #: 1
 Matrix: Soil
 Date Prepared: 05/01/2014
 Analyst: ARM

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod		Analytes								
Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
15.6	1030	1170	112	1030	1090	104	7	70-135	35	
<15.5	1030	1160	113	1030	1040	101	11	70-135	35	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times (C-F)/(C+F)$
 ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
 N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: New Hobbs Station Tank 52956

Work Order #: 484389

Lab Batch #: 940004

Project ID: 2014-018

Date Analyzed: 05/01/2014 15:00

Date Prepared: 05/01/2014

Analyst: WRU

QC- Sample ID: 484446-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	<1.00	<1.00	0	20	U

Lab Batch #: 940004

Date Analyzed: 05/01/2014 15:00

Date Prepared: 05/01/2014

Analyst: WRU

QC- Sample ID: 484449-003 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	23.9	23.1	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



CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West 120 East Odessa, TX 79765 (432)563-1800

Page 1 of 1

LAB W.O #: 484389

Field billable Hrs :

Company: Basin Environmental Service Technologies, LLC		Phone: (575)396-2378		TAT Work-Days: 2D		Need results by: _____ Time: _____	
Address: 3100 Plains Hwy.		Fax: (575)396-1429		Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other _____			
City: Lovington		State: NM Zip: 88260					
PM/Attn: Ben Arguilo		Email: cjbryant@paalp.com, biarguilo@basinenv.com					
Project ID: New Hobbs Station Tank 52956 SRS #2014-018		PO#: PAA-C. Bryant					
Invoice To: Camille Bryant Plains All American		Quote #:					
Sampler Signature: <i>[Signature]</i>		Circle One Event: Daily Weekly Monthly Quarterly					
Sample #	Sample ID	Collect Date	Collect Time	Matrix Code	Field Integrity OK (Y/N)	Total # of containers	
1	North Wall B	4/28/14	1400	S		1	
2	East Wall B	4/28/14	1410	S		1	
3							
4							
5							
6							
7							
8							
9							
0							
Reg. Program / Clean-up Std		STATE for Certs & Regs		QA/QC Level & Certification		EDDs	
CTLs TRRP, DW, NPDES LPST DryCin	FL TX GA NC SC NJ PA OK LA AL NM Other:	FL TX GA NC SC NJ PA OK LA AL NM Other:		ADAPT SEDD ERPIMS XLS Other:		ADAPT SEDD ERPIMS XLS Other:	
Relinquished by <i>[Signature]</i>		Affiliation <i>Basin</i>		Date <i>4-29-14</i>		Time <i>12:17</i>	
1							
2							
3							
4							
COC & Labels		Match Incomplete Absent Unclear		Affiliation		Date	
Lab Use Only		YES NO N/A		Received on time to meet HTs?		Received on time to meet HTs?	
Non-Conformances found?		Samples intact upon arrival?		Received on Wet lot?		Labeled with proper preservatives?	
Received within holding time?		Custody seals intact?		VOCs rec'd w/o headspace?		Proper containers used?	
pH verified-acceptable, excd VOCs?		Received on time to meet HTs?					

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330
FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.

Revision Date: Nov 12, 2009



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: PLAINS ALL AMERICAN EH&S

Date/ Time Received: 04/29/2014 12:19:00 PM

Work Order #: 484389

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	20.7
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	N/A
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	N/A
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	N/A
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by:

Ruriko Konuma

Date: 04/30/2014

Checklist reviewed by:

Kelsey Brooks

Date: 04/30/2014



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 293742

LEASE OPERATOR/SHIPPER/COMPANY:

Plains Marketing

LEASE NAME:

New Hobbs Station Tank 52956

TRANSPORTER COMPANY:

Basin Enviro.

TIME 1:46 AM/PM

DATE:

4-28-14

VEHICLE NO:

8

GENERATOR COMPANY

MAN'S NAME:

Camille Bryant

CHARGE TO:

Plains Marketing

RIG NAME
AND NUMBER

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description:

old

RRC or API #

NM

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD

12

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 294167

LEASE OPERATOR/SHIPPER/COMPANY:

Plains Marketing

LEASE NAME:

New Hobbs Station Tank 52954

TRANSPORTER COMPANY:

Basin Enviro.

TIME 1:16 AM/PM

DATE:

4-30-14

VEHICLE NO:

8

GENERATOR COMPANY
MAN'S NAME:

Camille Bryant

CHARGE TO:

Plains Marketing

RIG NAME
AND NUMBER

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description:

Oil

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD

12

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

[Signature]

FACILITY REPRESENTATIVE:

(SIGNATURE)

[Signature]

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 281356

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE:

VEHICLE NO:

GENERATOR COMPANY
MAN'S NAME:

CHARGE TO:

RIG NAME
AND NUMBER

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description:

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

☒ YARD

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **201311**

LEASE OPERATOR/SHIPPER/COMPANY:

Plains Marketing

LEASE NAME:

New Hobbs Station Tank 52954

TRANSPORTER COMPANY:

Basin Service

TIME *10:52* AM/PM

DATE: *2-5-14*

VEHICLE NO:

9

GENERATOR COMPANY
MAN'S NAME:

Camille Bryant

CHARGE TO:

Plains Marketing

RIG NAME
AND NUMBER

575-441-1099

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description:

OLD

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLS.

:

X

YARD

12

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER:

(SIGNATURE)

[Signature]

FACILITY REPRESENTATIVE:

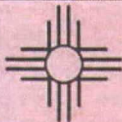
(SIGNATURE)

[Signature]

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 281366

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE:

VEHICLE NO:

GENERATOR COMPANY
MAN'S NAME:

CHARGE TO:

RIG NAME
AND NUMBER

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description:

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

☒ YARD

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER:

(SIGNATURE)

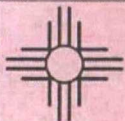
FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **281339**

LEASE OPERATOR/SHIPPER/COMPANY:

Plains Marketing

LEASE NAME:

New Hobbs Station Tank 52956

TRANSPORTER COMPANY:

Basin Environmental

TIME

1:16

AM/PM

DATE:

2-5-14

VEHICLE NO:

9

GENERATOR COMPANY

MAN'S NAME:

Camille Bryant

CHARGE TO:

Plains Marketing

RIG NAME
AND NUMBER

575-441-1099

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description:

Oil

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs

:

☒ YARD

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

add for materials

FACILITY REPRESENTATIVE:

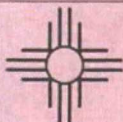
(SIGNATURE)

A. Sta Cruz

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 281312

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE:

VEHICLE NO:

GENERATOR COMPANY
MAN'S NAME:

TIME 10:56 AM/PM

CHARGE TO:

RIG NAME
AND NUMBER

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description:

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

☒ YARD

☐

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DRIVER:

(SIGNATURE)

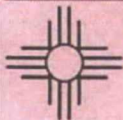
FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 281433

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

DATE:

VEHICLE NO:

GENERATOR COMPANY
MAN'S NAME:

TIME 9:24 AM/PM

CHARGE TO:

RIG NAME
AND NUMBER

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description:

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

☒ YARD

☐

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **281086**

LEASE OPERATOR/SHIPPER/COMPANY:

Plains Marketing

LEASE NAME:

New Hobbs Station Tank 52956

TRANSPORTER COMPANY:

Basin Energy

TIME *11:11* AM/PM

DATE:

2-4-14

VEHICLE NO:

9

GENERATOR COMPANY
MAN'S NAME:

Camille Bryant

CHARGE TO:

Plains Marketing

RIG NAME
AND NUMBER

575-441-1099

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description:

Oil

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD

:

☐

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **281126**

LEASE OPERATOR/SHIPPER/COMPANY:

Plains Marketing

LEASE NAME:

New Hobbs Station Tank 52956

TRANSPORTER COMPANY:

Basin Empire

TIME *1:29* AM/PM

DATE:

2-4-14

VEHICLE NO:

9

GENERATOR COMPANY
MAN'S NAME:

Annelle Bryant

CHARGE TO:

Plains Marketing

RIG NAME
AND NUMBER

575-441-1099

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description:

OLD

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD

:

☐

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DRIVER:

(SIGNATURE)

[Signature]

FACILITY REPRESENTATIVE:

(SIGNATURE)

[Signature]

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. **281149**

LEASE OPERATOR/SHIPPER/COMPANY:

Plains Marketing

LEASE NAME:

New Hobbs Station Tank

TRANSPORTER COMPANY:

Basin Enviro.

TIME *3:13* AM/PM

DATE: *2-*

VEHICLE NO: *9*

GENERATOR COMPANY
MAN'S NAME

Carville Bryant

CHARGE TO:

Plains Marketing

RIG NAME
AND NUMBER

575-411-1099

TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description:

OLD

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs.

:

☒ YARD

:

☐

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter