

Incident ID	
District RP	1RP-4340
Facility ID	nJXK1619033991
Application ID	pJXK1619034092

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Amber Groves Title: Remediation Coordinator
 Signature: *Amber Groves* Date: 11/14/2020
 email: algroves@pac-p.com Telephone: 505-200-5517

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Bradford Billings Date: 09/21/2020
 Printed Name: Bradford Billings Title: E. Spec. A

Incident ID	
District RP	1RP-3791
Facility ID	nKJ1521954222
Application ID	pKJ1521954545

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Amber Groves

Title: Remediation Coordinator

Signature: Amber Groves

Date: 11/14/2020

email: agroves@pactp.com

Telephone: 505-200-5577

OCD Only

Received by: _____

Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Bradford Billings

Date: 09/21/2020

Printed Name: Bradford Billings

Title: E. Spec. A



12600 WEST CO RD 91

MIDLAND, TX 79707

OFFICE: 432.653.4203

SOIL REMEDIATION ACTIVITIES REPORT AND CLOSURE REQUEST

PLAINS PIPELINE, L.P.

LOVINGTON STATION TANK 116901 RELEASE

LEA COUNTY, NM

NMOCD INCIDENT #: 1RP-3791 (DEFERRED) AND 1RP-4340

SRS #: 2016-108

Table of Contents

1. Introduction
2. Release Description, and Response
3. NMOCD Regulatory Limits
4. Soil Remediation Activities and Sample Analysis
5. Conclusion and Closure Request

Table

Table 1. Chemistry Table. Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil

Figures

Figure 1. Site Location Map

Figure 2. Terracon Site and Sample Location Map

Figure 3. Site Location Relative to Known Regional Karst Topography

Figure 4. Site Details and Confirmation Soil Sample Location Map

Appendices

Appendix A. NMOCD C-141 Forms

Appendix B. NMOCD Email for Backfilling/Deferral

Appendix C. New Mexico OSE Water Column/Average Water Depth to Groundwater Data

Appendix D. Laboratory Analytical Reports

Appendix E. Photographic Documentation

Appendix F. Field Data

Appendix G. Waste Manifests

March 5, 2020

New Mexico Oil Conservation Service, District 1
1625 N. French Drive
Hobbs, New Mexico 88240

New Mexico State Land Office
Attn: Mr. Ryan Mann
914 N. Linam Street
Hobbs, New Mexico 88240

Re: Soil Remediation Activities Report and Closure Request

Lovington Station Tank 116901 Release

Unit Letter H, Section 21, Township 18S, Range 36E

GPS: N 32.73422°, W 103.35255°

Lea County, New Mexico

NMOCD Incident #s: 1RP-3791 (Deferred) and 1RP-4340

SRS #: 2016-108

1. Introduction

Dean Companies, Inc. (Dean) is pleased to present this Soil Remediation Activities Report and Closure Request on behalf of Plains Pipeline, L.P. (Plains) to document the field excavation activities that were conducted at the Lovington Station Tank 116901 Release site. The crude oil release occurred off Hwy 483, approximately 12.82 miles east/northeast of Hobbs in Lea County, New Mexico in Unit Letter H, Section 21, Township 18S and Range 36E. The GPS coordinate for the site is N 32.73422° and W -103.35255°. This report covers the completion of soil remediation of 1RP-3791 (Deferred) and 1RP-4340. A "Site Location Map" is provided as Figure 1. This site is located on New Mexico State Trust Land.

2. Two Release Descriptions and Response Actions

On August 5, 2015, a crude oil release occurred due to internal corrosion along the floor of tank 117275 resulting in a release of approximately one hundred and one (101) barrels (bbl) of crude with approximately sixty-six (66) bbls recovered for a net loss of approximately forty-five (45) bbls. The release was contained onsite within the secondary containment and measured approximately

forty (40) ft. by eighty (80) ft. affecting an area of approximately 2,100 square feet (sq. ft.). A C-141 was filed and given incident number 1RP-3791. According to a Terracon report dated December 29, 2015, entitled "*Remediation Summary and Risk Based Closure Report*", between August 11, 2015 and October 1, 2015, Terracon personnel oversaw the soil remediation, sampling, and backfilling activities at the site. The entire site was remediated to below standards as set forth in the August 13, 1993 NMOCD guidance document entitled "*Guidelines for Remediation of Leaks, Spills and Releases*," with the exception of one area which was not accessible due to onsite tank and ancillary equipment. Permission to backfill the western section of the excavation was requested in an August 25, 2019 Terracon email, which was granted by the NMOCD in an email dated August 26, 2019. In a Terracon email dated September 21, 2015 submitted on behalf of Plains, a request for permission to backfill the eastern half of the excavation along with a deferral on remaining hydrocarbon impacted soils was requested. In an email response dated September 22, 2015, a representative of the NMOCD granted permission to backfill the eastern half of the excavation. In addition, within the correspondence of emails the NMOCD stated that incident number 1RP-3791 would remain open until such time as historic contamination is addressed by site abandonment, sale, or closure. See Appendix B for corresponding emails. The soils left in-site until abandonment measured approximately five (5) ft by eight (8) ft and is represented by Terracon's soil sample East RP @ Surf. on Figure 2 "Site and Sample Location Map". This report addresses the remediation of the remaining soils which were left in-situ during the 2015 remediation activities and the completion of incident number 1RP-3791.

On July 3, 2016, a second crude oil release occurred at the site. A C-141 was filed and given incident number 1RP-4340. According to the filed C-141, the release was attributed to internal corrosion along the floor of tank 116901 resulting in a release of approximately seventeen (17) bbls with fifteen (15) bbls recovered for a net loss of two (2) bbls. The release impacted the area previously remediated in August to October 2015 and covering an approximate area of 1,200 square feet within the secondary containment. On July 20, 2016, during an onsite meeting with the NMOCD, the NMOCD requested the tanks be removed and the impacted soils beneath the tanks remediated. This report details the remediation efforts of the second release and includes the removal of the deferred soils from the first release located in the vicinity of Terracon soil sample East RP @ Surf.

On July 2, 2019, Dean was assigned management responsibilities for impacted soil remediation, soil sampling, site restoration, and reporting activities by Plains. The initial and final C-141 forms

for the August 5, 2015 release and the initial C-141 form for the July 3, 2016 release are included in Appendix A.

3. NMOCD Regulatory Limits

Both releases occurred prior to August 2018 with the 1RP-3791 (deferred) release being remediated under the NMOCD August 13, 1993 “*Guidelines for Remediation of Leaks, Spills, and Releases*”. In August 2018, the NMOCD revised the assessment and cleanup levels for hydrocarbon and saltwater releases based on depth to groundwater following criteria as set forth in Title 19 Chapter 15 Part 29 New Mexico Administrative Code (19.15.29 NMAC). Groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and the New Mexico Bureau of Geology & Mineral Resources (NMBGMR) were accessed to determine if any registered water wells were located near the site. Data collected from the two databases listed two (2) registered water wells located within Unit Letter H, Section 21, Township 18S, and Range 36E with measured groundwater depths of approximately sixty (60) feet below ground surface (bgs) (Well L 01632 POD5) and 70 feet bgs (Well L 07469). See Appendix C for the NMOSE water column/average depth to groundwater data near the site. In addition, according to the Bureau of Land Management (BLM) the site is located in an area of low potential karst topography. See Figure 3 “Site Location Relative to Known Regional Karst Topography”. As outlined in 19.15.29.12.B.(4) NMAC, the release does not occur in referenced sensitive areas with the nearest water body feature being an unmarked intermittent stream located approximately 2.25 miles southeast of the site. Meeting the previous criteria, the NMOCD restoration and cleanup levels for soils impacted by hydrocarbons are as follows:

- Chloride 10,000 mg/Kg
- TPH (GRO + DRO) 1,000 mg/Kg
- Total TPH 2,500 mg/Kg
- Benzene 10 mg/Kg
- Total BTEX 50 mg/Kg

4. Soil Remediation Activities and Sample Analysis

Between July 2 and October 29, 2019, Dean Personnel were onsite to conduct soil remediation activities at the release site. Utilizing a backhoe, hydrocarbon impacted soils were excavated in the location of the former facility. During excavation activities, the soils were field screened utilizing both a photoionization detector (PID) and chloride test strips. See Appendix F for field screening data. Based on visual observations and field PID and chloride screening, the site was

excavated to dimensions of approximately sixty (60) ft. wide by forty (40) ft. long to a depth of six (6) ft. bgs. During the excavation, the hydrocarbon impacted soils (vicinity of soil sample East RP @ Surf.), which was deferred under 1RP- 3791, were also excavated. Approximately 744 cubic yards of soil were removed from the excavation and stockpiled on plastic awaiting disposal.

On October 7, 2019, twelve (12) composite bottom hole soil samples (BH-1 @ 6' through BH-12 @ 6') along with eight (8) composite sidewall soil samples (SW-1 @ 3', SB-2 @ 3', NW-1 @ 3', NW-2 @ 3', EW-1 @ 3', EW-2 @ 3', WW-1 @ 3', and WW-2 @ 3') were collected at the site every two hundred (200) ft²., placed into laboratory-provided sample containers, labeled, stored on ice, and transported under proper chain-of-custody documentation to Cardinal Laboratories of Hobbs, New Mexico (Cardinal). Soil samples were analyzed for TPH utilizing Method SW-846 8015M, BTEX utilizing Method SW-846 8021B, and chlorides utilizing Method 4500-CL-B. See Figure 4 "Site Excavation Details and Confirmation Soil Sample Location Map" for sample locations. The TPH concentrations for all soil samples were below the NMOCD standards of 1,000 mg/Kg (TPH Gro +Dro) and 2,500 mg/Kg (Total TPH) with a maximum concentration of 197 mg/Kg (TPH Gro + Dro) and 266.1 mg/Kg total TPH in soil wall sample SW-1 @ 3'. Chloride concentrations were below NMOCD standards of 10,000 mg/Kg with results ranging from 16 mg/Kg in eleven (11) of the twenty (20) soil samples to 160 mg/Kg in soil sample BH-5 @ 6'. Benzene and total BTEX concentrations were below method detection limits for all samples analyzed. Laboratory reports containing analytical methods, results, and chain-of-custody documents are included in Appendix D.

5. Conclusion and Closure Request

Upon collecting requisite confirmation soil samples, the excavated area was backfilled between October 25 and 29, 2019 with locally sourced non-impacted soils and brought to grade. Photo documentation detailing site activities is included in Appendix E. The approximately 744 cubic yards of stockpiled hydrocarbon impacted soils were transported offsite for disposal at Lazy Ace Landfarm in Eunice, New Mexico. See Appendix G for waste manifests. Based upon the analytical results of the confirmation soil samples collected from the base and side walls of the excavation, Plains believes the site has been remediated to within standards set forth by the NMOCD. As such, Plains respectfully requests that the NMOCD consider closure of both incident numbers 1RP-3791 (Deferred) and 1RP-4340. Final C-141's closure for 1RP-4340 and 1RP-3791 are attached to the front of this report.

If you have any questions, or if additional information is required, please feel free to contact Amber Groves (email: ALGroves@paalp.com, cell: 575.200.7717) of Plains or Sylwia Reynolds (email: sylwiareynolds@deandigs.com, cell: 432.999.8675) or Jeff Kindley (email: jeffreykindley@deandigs.com, cell: 432.230.0920) of Deans.

Sincerely,



Sylwia Reynolds

Project Manager


Jeffrey Kindley, R.G.

Professional Geologist

TABLE



Table 1. Chemistry Table

Concentrations of Benzene, BTEX, TPH and Chlorides in soil

Plains: Lovngton Station Remediation

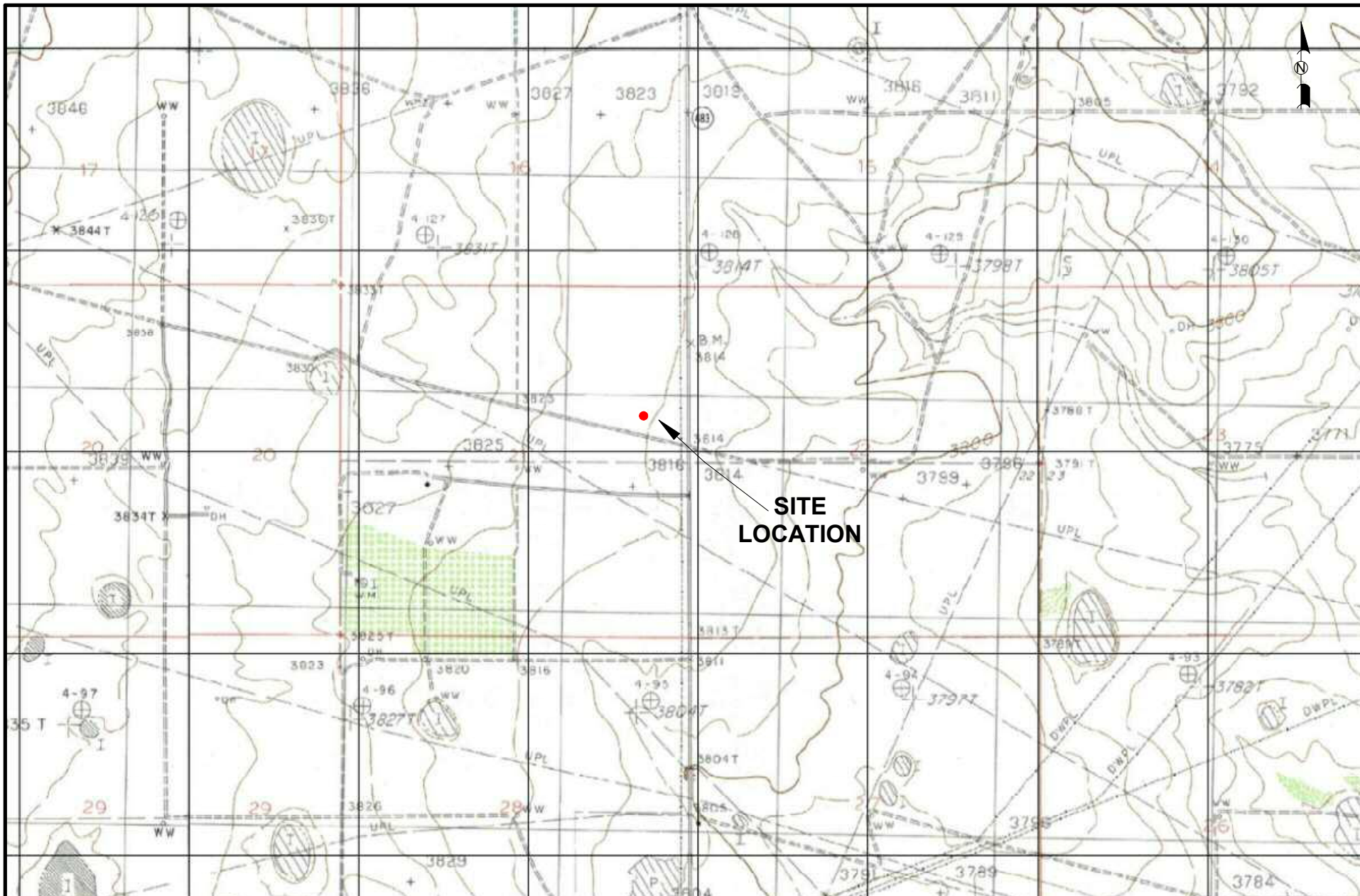
SRS #2016-108

Plains Pipeline, L.P.

Lea County, NM

SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030				METHOD: SM4500CL-B	METHODS: EPA SW 846-8015M					
SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH	SAMPLE METHOD	MATRIX	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	Total BTEX (mg/kg)	CHLORIDES (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO+DRO (mg/kg)	ORO (mg/kg)	TOTAL TPH (mg/kg)
BH-1 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
BH-2 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
BH-3 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
BH-4 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
BH-5 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	160	<10.0	<10.0	<10.0	<10.0	<10.0
BH-6 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
BH-7 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	32	<10.0	<10.0	<10.0	<10.0	<10.0
BH-8 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
BH-9 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	64	<10.0	<10.0	<10.0	<10.0	<10.0
BH-10 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	32	<10.0	<10.0	<10.0	<10.0	<10.0
BH-11 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	32	<10.0	<10.0	<10.0	<10.0	<10.0
BH-12 @ 6'	10/07/19	6'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	32	<10.0	<10.0	<10.0	<10.0	<10.0
SW-1 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	197	197	69.1	266.1
SW-2 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	48	<10.0	11.6	11.6	<10.0	11.6
NW-1 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
NW-2 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
EW-1 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
EW-2 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	48	<10.0	<10.0	<10.0	<10.0	<10.0
WW-1 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	32	<10.0	78.1	78.1	18.9	97
WW-2 @ 3'	10/07/19	3'	COMP	SOIL	<0.050	<0.050	<0.050	<0.150	<0.300	16	<10.0	<10.0	<10.0	<10.0	<10.0
NMOCD Recommended Remediation Action Level					10	-	-	-	50	10,000	-	-	1,000	-	2,500

FIGURES



LEGEND:



Native Grassland



Tanks

2000 1000 0 1000 2000



Distance in Feet

Figure 1

Site Location Map
Plains Pipeline, L.P.
Lovington Station Remediation
Lea County, NM

Scale: 1" = 2000'

CAD By: NPC

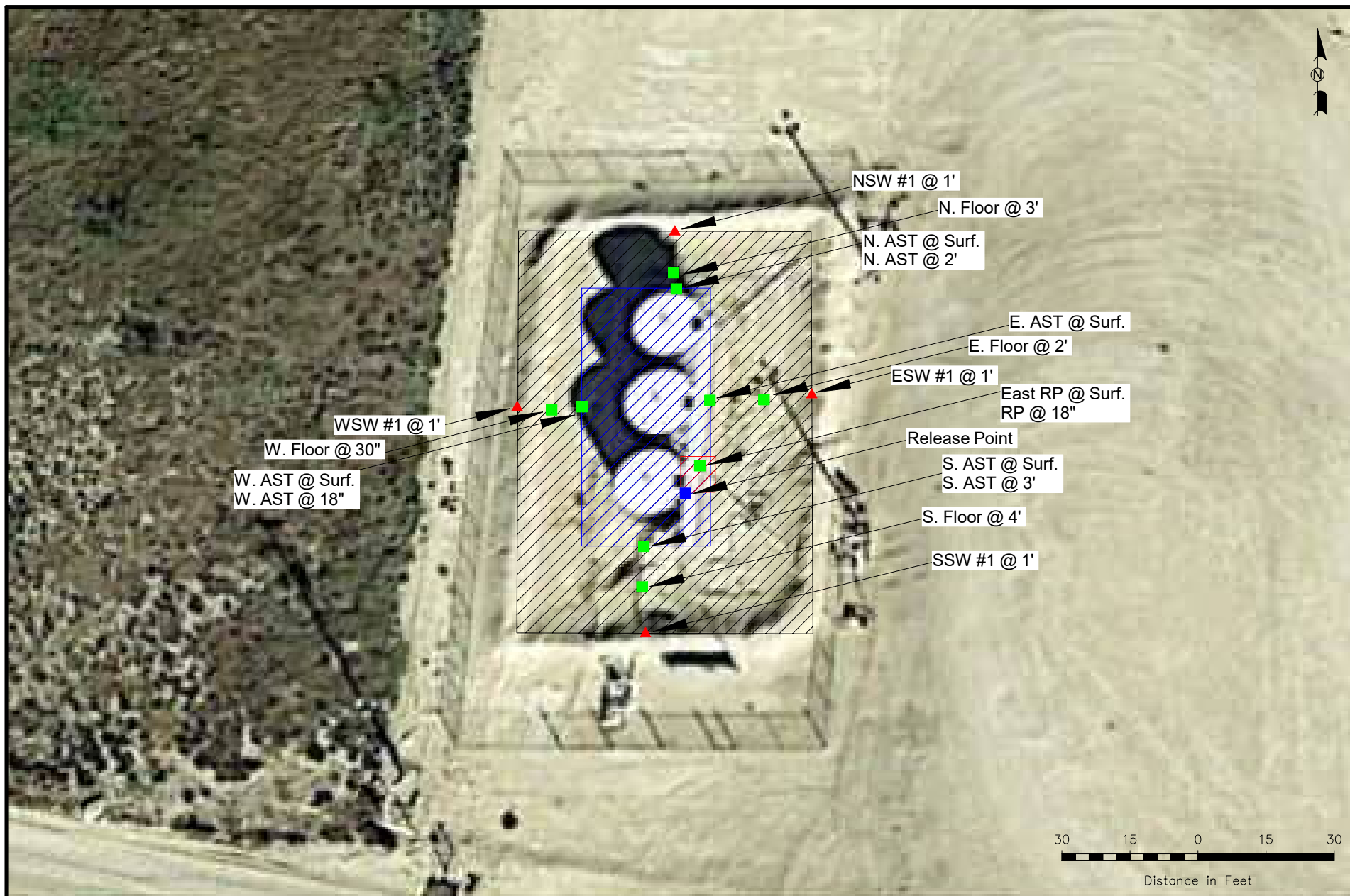
Checked By: SR

Draft: December 6, 2019

Lat. N 32.734600° Long. W 103.352300°

Dean Job #PP-9039

DEAN



LEGEND:

- Excavated Area
- Affected Soil Remaining In-Situ
- Deferred Soils (Left In-Situ)
- Release Point
- Confirmation Grab Soil Sample Location
- Side Wall Confirmation Soil Sample Location

Figure 2
Terracon Site Details & Confirmation
Soil Sample Location Map
Plains Pipeline, L.P.
Lovington Station Remediation
Lea County, NM

Scale: 1" = 30'

CAD By: NPC

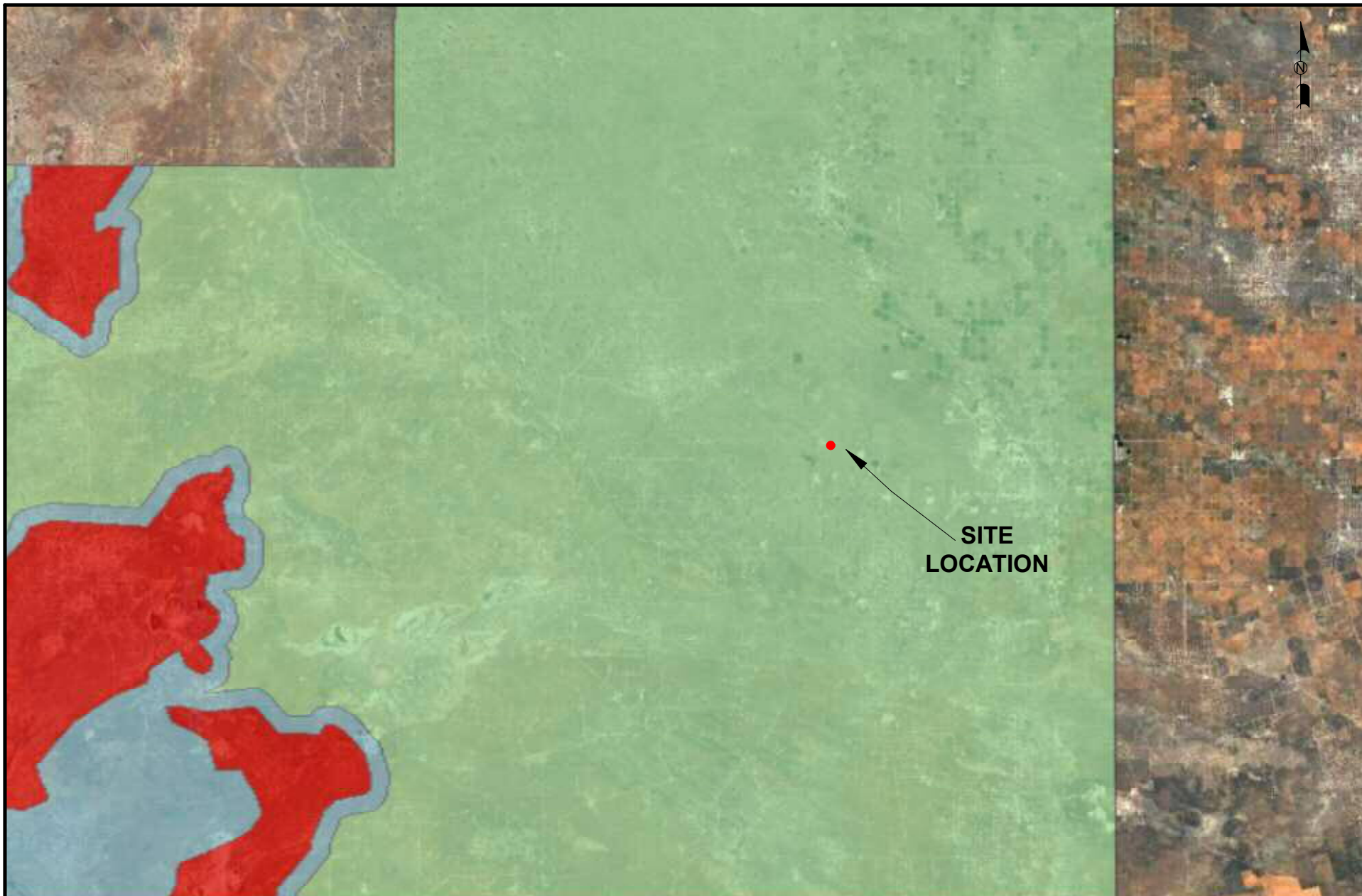
Checked By: SR

Draft: February 10, 2019

Lat. N 32.734600° Long. W 103.352300°

NMOCD Incident # 1RP-3791 (Deferral)

DEAN



LEGEND:

- Low Potential Karst Topography
- Medium Potential Karst Topography
- High Potential Karst Topography

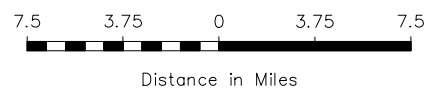


Figure 3
 Site Location Relative to
 Known Regional Karst Topography
 Plains Pipeline, L.P.
 Lovington Station Remediation
 Lea County, NM

Scale: 1" = 7.5 miles

CAD By: NPC

Checked By: SR

Draft: January 2, 2020

Lat. N 32.734600° Long. W 103.352300°

Dean Job #PP-9039

DEAN



LEGEND:






-  Impacted Area
-  Confirmation Grab Soil Sample Location
-  Side Wall Confirmation Soil Sample Location
-  Fencing
-  Tank

Figure 4
Site Details & Confirmation
Soil Sample Location Map
Plains Pipeline, L.P.
Lovington Station Remediation
Lea County, NM

Scale: 1" = 40'

CAD By: NPC

Checked By: SR

Draft: December 6, 2019

Lat. N 32.734600° Long. W 103.352300°

Dean Job #PP-9039

DEAN

APPENDIX A
NMOCD C-141 FORMS

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ 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	Lovington Station Tank 117275	Facility Type	Tank
Surface Owner	New Mexico State Land Office	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
H	21	18S	36E					Lea

Latitude N 32.73427° Longitude W 103.35266°

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	101 bbls	Volume Recovered	66 bbls
Source of Release	Tank	Date and Hour of Occurrence	08/05/2015 @ 08:00	Date and Hour of Discovery	08/05/2015 @ 08:22
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required				
By Whom?	Camille Bryant	If YES, To Whom?	Verbal notification to Kellie Jones		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
		Date and Hour	08/05/2015 @ 15:28		
		If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

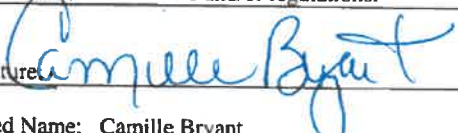

RECEIVED

By OCD District 1 at 2:57 pm, Aug 07, 2015

Describe Cause of Problem and Remedial Action Taken.* Internal corrosion caused a hole to develop in the floor of tank 117275 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 40' X 80'. 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: 		
Title: Remediation Coordinator	Approval Date: 08/07/2015	Expiration Date: 10/07/2015	
E-mail Address: cjbryant@paalp.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8/7/15	Site samples required. Delineate and remediate as per NMOCD guides. Geotag photographs of remediation required.		1RP-3791
Phone: (575) 441-1099			

* Attach Additional Sheets If Necessary

nKJ1521954222

pKJ1521954545

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

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

RECEIVED

By JKeyes at 2:47 pm, Jan 19, 2016

Form C-141
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	Lovington Station Tank 117275	Facility Type	Tank
Surface Owner	New Mexico State Land Office	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
H	21	18S	36E					Lea

Latitude N 32.73427° Longitude W 103.35266°

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	101 bbls	Volume Recovered	66 bbls
Source of Release	Tank	Date and Hour of Occurrence	08/05/2015 @ 08:00	Date and Hour of Discovery	08/05/2015 @ 08:22
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required				
By Whom?	Camille Bryant	If YES, To Whom?	Verbal notification to Kellie Jones		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	Date and Hour 08/05/2015 @ 15:28				
	If YES, Volume Impacting the Watercourse.				

If a Watercourse was Impacted, Describe Fully.*

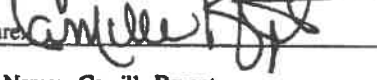

JAN 13 2016

Describe Cause of Problem and Remedial Action Taken.* Internal corrosion caused a hole to develop in the floor of tank 117275 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 40' X 80'. The release was remediated as per NMOCD recommended guidelines. Please reference the attached *Remediation Summary and Risk-Based Closure Report* dated December 29, 2015 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.

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor: 		
Printed Name: Camille Bryant			
Title: Remediation Coordinator	Approval Date: 01/19/2016	Expiration Date:	
E-mail Address: cbryant@paalp.com	Conditions of Approval: RP will remain open until abandonment at which point remaining contamination will need to be addressed		Attached <input type="checkbox"/>
Date: 1/12/2016	Phone: (575) 441-1099		

* Attach Additional Sheets If Necessary

122-3791

JAN 13 2016

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

State of New Mexico
Energy Minerals and Natural Resources

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

RECEIVED

By JKeyes at 9:29 am, Jul 08, 2016

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	Lovington Station Tank 116901	Facility Type	Tank
Surface Owner	New Mexico State Land Office	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
H	21	18S	36E					Lea

Latitude N 32.73422° Longitude W 103.35255°

NATURE OF RELEASE

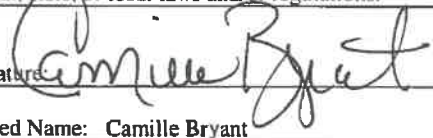

Type of Release	Crude Oil	Volume of Release	17 bbls	Volume Recovered	15 bbls
Source of Release	Tank	Date and Hour of Occurrence	07/03/2016 @ 08:42	Date and Hour of Discovery	07/03/2016 @ 08:42
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required				
By Whom?	Camille Bryant	If YES, To Whom?	Verbal notification to Jamie Keyes		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Date and Hour 07/03/2016 @ 15:11					
If YES, Volume Impacting the Watercourse.					

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Internal corrosion caused a hole to develop in the floor of tank 116901 resulting in a release of crude oil.

Describe Area Affected and Cleanup Action Taken. The released crude oil impacted approximately 1,200 square feet inside the secondary containment of the facility. The release 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: 	
Title: Remediation Coordinator		Approval Date: 07/08/2016	Expiration Date: 09/08/2016
E-mail Address: cjbryant@paalp.com		Conditions of Approval:	
Date: 7/8/2016 Phone: (575) 441-1099		Discrete samples only. Delineate and remediate per NMOCD guidelines.	
		Attached <input type="checkbox"/> 1RP 4340	

* Attach Additional Sheets If Necessary

nJXK1619033991
pJXK1619034092

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

State of New Mexico
Energy Minerals and Natural Resources

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

RECEIVED

By JKeyes at 2:47 pm, Jan 19, 2016

Form C-141
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	Lovington Station Tank 117275	Facility Type	Tank

Surface Owner	New Mexico State Land Office	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
H	21	18S	36E					Lea

Latitude N 32.73427° Longitude W 103.35266°

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	101 bbls	Volume Recovered	66 bbls
Source of Release	Tank	Date and Hour of Occurrence	08/05/2015 @ 08:00	Date and Hour of Discovery	08/05/2015 @ 08:22
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required				
By Whom?	Camille Bryant	If YES, To Whom?	Verbal notification to Kellie Jones		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Date and Hour	08/05/2015 @ 15:28	
		If YES, Volume Impacting the Watercourse.			

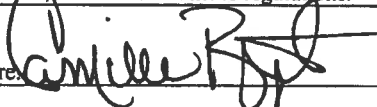

If a Watercourse was Impacted, Describe Fully.*

JAN 13 2016

Describe Cause of Problem and Remedial Action Taken.* Internal corrosion caused a hole to develop in the floor of tank 117275 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 40' X 80'. The release was remediated as per NMOCD recommended guidelines. Please reference the attached *Remediation Summary and Risk-Based Closure Report* dated December 29, 2015 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		
Printed Name: Camille Bryant	Approved by District Supervisor: 		
Title: Remediation Coordinator	Approval Date: 01/19/2016	Expiration Date:	
E-mail Address: cjbryant@paalp.com	Conditions of Approval: RP will remain open until abandonment at which point remaining contamination will need to be addressed		Attached <input type="checkbox"/>
Date: 1/12/2016	Phone: (575) 441-1099		

* Attach Additional Sheets If Necessary

1 RP-3791

JAN 13 2016

APPENDIX B
NMOCD EMAIL FOR BACKFILLING/DEFERAL

Jeff Kindley

From: Jones, Kellie, EMNRD <Kellie.Jones@state.nm.us>
Sent: Tuesday, September 22, 2015 7:46 AM
To: Lowry, Joel W
Cc: Camille J Bryant; Keyes, Jamie, EMNRD
Subject: RE: Permission to Backfill -- Eastern Portion of Release Site -- Plains' Lovington Station Tank 1RP-3791-- Western Excavation
Attachments: ATT00001.txt

Joel,

Permission to backfill the eastern portion of the site is acceptable. Please keep me informed of the status of the site.

Have a great day!

Kellie Jones
Environmental Specialist, District 1
Oil Conservation Division, EMNRD
575-393-6161 ext. 111
575-370-3180 (emergency-cell)
E-Mail: kellie.jones@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Lowry, Joel W [mailto:Joel.Lowry@terracon.com]
Sent: Monday, September 21, 2015 9:12 AM
To: Jones, Kellie, EMNRD
Cc: Camille J Bryant
Subject: Permission to Backfill -- Eastern Portion of Release Site -- Plains' Lovington Station Tank 1RP-3791-- Western Excavation

Ms. Jones,

On behalf of Plains Pipeline, Terracon has prepared the attached *Updated Site and Sample Location Map* and *Soil Chemistry Table* for the Lovington Station Tank environmental remediation site (NMOCD Ref. No. 1RP-3791). The release site is located in UL "H", Sec. 21, Township 18 South, Range 36 East on land owned by the State of New Mexico. The GPS coordinates of the release site are 32.73427°, -103.35266°.

On August 28, 2015, upon receiving laboratory analytical results, Terracon requested NMOCD permission to backfill the Western Portion of the remediation site with non-impacted material. Upon receiving NMOCD permission, the western portion was backfilled, allowing environmental personnel to excavation affected soil on the east side of the above – ground storage tanks (ASTs).

The eastern portion of the release site has been excavated to a depth of approximately 2' to 3' bgs. Upon excavating the impacted soil from the eastern portion of the release site, confirmation soil samples were collected from the floor and

sidewalls of the excavated area and submitted to the laboratory for analysis of TPH, BTEX and/or chloride. Laboratory analytical results indicate TPH concentrations ranged from less than the appropriate laboratory reporting limit for soil samples E. Floor @ 2' to 706 mg/kg for soil sample E. AST @ Surf. Benzene, toluene, ethylbenzene and total xylene (BTEX) concentrations were less than the appropriate laboratory reporting limit in each of the analyzed soil samples with the exception of soil sample E. AST @ Surf., which exhibited a total BTEX concentration of 0.00601 mg/kg; concentrations of benzene were less than the appropriate laboratory reporting limit. Soil sample E. Floor was also analyzed for concentrations of chloride, which were determined to be 11.1 mg/kg.

In addition, two (2) soil samples (East RP @ Surf. @ RP @ 18") were collected from beneath the release point on the east side of the southern AST to characterize affected soil left in-situ. Collected soil samples were submitted to the laboratory for analysis of BTEX and TPH concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory reporting limit for soil sample RP @ 18" to 16,900 mg/kg for soil sample East RP @ Surf. BTEX concentrations ranged from 0.0239 mg/kg for soil sample RP @ 18" to 0.4205 mg/kg for soil sample East RP @ Surf. Excavated soil is stockpiled on-site, atop a 20-millimeter poly liner, pending final disposition.

Laboratory analytical results indicate TPH and BTEX concentrations were less than NMOCD Regulatory Remediation Action Levels in each of the submitted soil samples with the exception of soil sample East RP @ Surf., which exhibited a TPH concentration of 16,900 mg/kg. Based on the review of laboratory analytical results from confirmation soil samples, on behalf of Plains Pipeline, Terracon requests permission to backfill the eastern portion of the remediation site with non-impacted material.

Upon backfilling the eastern portion of the remediation site, affected soil represented by soil sample East RP @ Surf. will be excavated by hand to the maximum extent practicable. Terracon maintains extensive excavation at the release point may compromise the integrity of the AST and pose a safety risk. With NMOCD permission, affected soil remaining in-situ beneath the eastern portion of the southern AST, represented by soil sample East RP @ Surf., will be remediated at time of abandonment (TOA).

If you have any questions or need any additional information, please feel free to contact myself or Camille Bryant by phone or email. Thanks.

Respectfully,

Joel W. Lowry
Project Geologist I | Environmental

Terracon

5827 50th Street, Suite 1 | Lubbock, Texas 79424
P (806) 300-0140 | C (432) 466-4450 | F (806) 797-0947
joel.lowry@terracon.com | terracon.com



From: Jones, Kellie, EMNRD [<mailto:Kellie.Jones@state.nm.us>]

Sent: Wednesday, August 26, 2015 8:20 AM

To: Lowry, Joel W

Cc: Camille J Bryant

Subject: RE: Permission to Backfill -- Plains' Lovington Station Tank 1RP-3791-- Western Excavation

Joel,

Permission to backfill the west side of the excavation.

If you have any questions, please feel free to contact me.

Kellie Jones

Environmental Specialist, District 1

Oil Conservation Division, EMNRD

575-393-6161 ext. 111

575-370-3180 (emergency-cell)

E-Mail: kellie.jones@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Please note:

-The OCD is no longer granting "risk-based," or standard closure of events/RPs with remediation deferred to site abandonment/sale/closure. The RP will remain open until such time as historic contamination is addressed.

-Photographic documentation is stipulated for all events involving liquids.

If you have any questions or concerns, and for notification, please contact me.

From: Lowry, Joel W [<mailto:Joel.Lowry@terracon.com>]

Sent: Tuesday, August 25, 2015 9:56 AM

To: Jones, Kellie, EMNRD

Cc: Camille J Bryant

Subject: Permission to Backfill -- Plains' Lovington Station Tank 1RP-3791-- Western Excavation

Ms. Jones,

On behalf of Plains Pipeline, Terracon has prepared the attached *Site and Sample Location Map* and *Soil Chemistry Table* for the Lovington Station Tank environmental remediation site (NMOCD Ref. No. 1RP-3791). The release site is located in UL "H", Sec. 21, Township 18 South, Range 36 East on land owned by the State of New Mexico. The GPS coordinates of the release site are 32.73427°, -103.35266°.

The western portion of the release site has been excavated to a depth of approximately 2.5' to 4' bgs. Upon excavating the impacted soil from the western portion of the release site, confirmation soil samples were collected from the floor and sidewalls of the excavated area and submitted to the laboratory for analysis of TPH, BTEX and/or chloride. Laboratory analytical results indicate TPH concentrations ranged from less than the appropriate laboratory reporting limit for soil samples WSW #1 @ 1', W. AST @ Surf., W. AST @ 18", NSW #1 @ 1', N. AST @ Surf. and S. AST @ 3' to 264 mg/kg for soil sample S. AST @ Surf. Benzene, toluene, ethylbenzene and total xylene (BTEX) concentrations were less than the appropriate laboratory reporting limit in each of the analyzed soil samples. Soil samples W. Floor @ 30", N. Floor @ 3' and S. Floor @ 4' were also analyzed for concentrations of chloride, which were determined to be 6.49, 5.73, and 4.66 mg/kg, respectively. Excavated soil is stockpiled on-site, atop a 20-millimeter poly liner, pending final disposition.

Laboratory analytical results indicate TPH, BTEX and/or chloride concentrations are less than NMOCD Regulatory Remediation Action Levels in each of the analyzed soil samples. Based on the review of laboratory analytical results from confirmation soil samples, on behalf of Plains Pipeline, Terracon requests permission to backfill the western portion of the remediation site with non-impacted material before excavating impacted soil from the eastern portion or the release site. Terracon maintains excavating all sides around the above ground storage tanks (ASTs) simultaneously may compromise the integrity of the tanks and pose a safety risk. If you have any questions or need any additional information, please feel free to contact myself or Camille Bryant by phone or email. Thanks.

Respectfully,

Joel W. Lowry
Project Geologist I | Environmental

Terracon

5827 50th Street, Suite 1 | Lubbock, Texas 79424
P (806) 300-0140 | C (432) 466-4450 | F (806) 797-0947
joel.lowry@terracon.com | terracon.com



Terracon provides environmental, facilities, geotechnical, and materials consulting engineering services delivered with responsiveness, resourcefulness, and reliability.

Private and confidential as detailed here (www.terracon.com/disclaimer). If you cannot access hyperlink, please e-mail sender.

Terracon provides environmental, facilities, geotechnical, and materials consulting engineering services delivered with responsiveness, resourcefulness, and reliability.

Private and confidential as detailed here (www.terracon.com/disclaimer). If you cannot access hyperlink, please e-mail sender.

Jeff Kindley

From: Jones, Kellie, EMNRD <Kellie.Jones@state.nm.us>
Sent: Wednesday, August 26, 2015 8:20 AM
To: Lowry, Joel W
Cc: Camille J Bryant
Subject: RE: Permission to Backfill -- Plains' Lovington Station Tank 1RP-3791-- Western Excavation
Attachments: ATT00001.txt

Joel,

Permission to backfill the west side of the excavation.

If you have any questions, please feel free to contact me.

Kellie Jones
Environmental Specialist, District 1
Oil Conservation Division, EMNRD
575-393-6161 ext. 111
575-370-3180 (emergency-cell)
E-Mail: kellie.jones@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Please note:

- The OCD is no longer granting "risk-based," or standard closure of events/RPs with remediation deferred to site abandonment/sale/closure. The RP will remain open until such time as historic contamination is addressed.
- Photographic documentation is stipulated for all events involving liquids.

If you have any questions or concerns, and for notification, please contact me.

From: Lowry, Joel W [mailto:Joel.Lowry@terracon.com]
Sent: Tuesday, August 25, 2015 9:56 AM
To: Jones, Kellie, EMNRD
Cc: Camille J Bryant
Subject: Permission to Backfill -- Plains' Lovington Station Tank 1RP-3791-- Western Excavation

Ms. Jones,

On behalf of Plains Pipeline, Terracon has prepared the attached *Site and Sample Location Map* and *Soil Chemistry Table* for the Lovington Station Tank environmental remediation site (NMOCD Ref. No. 1RP-3791). The release site is located in UL "H", Sec. 21, Township 18 South, Range 36 East on land owned by the State of New Mexico. The GPS coordinates of the release site are 32.73427°, -103.35266°.

The western portion of the release site has been excavated to a depth of approximately 2.5' to 4' bgs. Upon excavating the impacted soil from the western portion of the release site, confirmation soil samples were collected from the floor and sidewalls of the excavated area and submitted to the laboratory for analysis of TPH, BTEX and/or chloride. Laboratory analytical results indicate TPH concentrations ranged from less than the appropriate laboratory reporting limit for soil samples WSW #1 @ 1', W. AST @ Surf., W. AST @ 18", NSW #1 @ 1', N. AST @ Surf. and S. AST @ 3' to 264 mg/kg for soil sample S. AST @ Surf. Benzene, toluene, ethylbenzene and total xylene (BTEX) concentrations were less than the appropriate laboratory reporting limit in each of the analyzed soil samples. Soil samples W. Floor @ 30", N. Floor @ 3' and S. Floor @ 4' were also analyzed for concentrations of chloride, which were determined to be 6.49, 5.73, and 4.66 mg/kg, respectively. Excavated soil is stockpiled on-site, atop a 20-millimeter poly liner, pending final disposition.

Laboratory analytical results indicate TPH, BTEX and/or chloride concentrations are less than NMOCD Regulatory Remediation Action Levels in each of the analyzed soil samples. Based on the review of laboratory analytical results from confirmation soil samples, on behalf of Plains Pipeline, Terracon requests permission to backfill the western portion of the remediation site with non-impacted material before excavating impacted soil from the eastern portion of the release site. Terracon maintains excavating all sides around the above ground storage tanks (ASTs) simultaneously may compromise the integrity of the tanks and pose a safety risk. If you have any questions or need any additional information, please feel free to contact myself or Camille Bryant by phone or email. Thanks.

Respectfully,

Joel W. Lowry
Project Geologist I | Environmental

Terracon
5827 50th Street, Suite 1 | Lubbock, Texas 79424
P (806) 300-0140 | C (432) 466-4450 | F (806) 797-0947
joel.lowry@terracon.com | terracon.com



Terracon provides environmental, facilities, geotechnical, and materials consulting engineering services delivered with responsiveness, resourcefulness, and reliability.

Private and confidential as detailed here (www.terracon.com/disclaimer). If you cannot access hyperlink, please e-mail sender.

APPENDIX C

**NEW MEXICO OSE WATER COLUMN/AVERAGE WATER
DEPTH TO GROUNDWATER DATA**



New Mexico Office of the State Engineer Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 01632	POD5	4	1	3	21	18S	36E	653213	3622570*
Driller License: 208		Driller Company: VAN NOY, W.L.							
Driller Name:									
Drill Start Date:	04/30/1978	Drill Finish Date:		05/06/1978		Plug Date:			
Log File Date:	06/01/1978	PCW Rcv Date:		03/06/1981		Source:		Shallow	
Pump Type:	TURBIN	Pipe Discharge Size:				Estimated Yield:		1200 GPM	
Casing Size:	12.00	Depth Well:		155 feet		Depth Water:		60 feet	
Water Bearing Stratifications:									
		Top	Bottom	Description					
		45	155	Sandstone/Gravel/Conglomerate					
Casing Perforations:									
		Top	Bottom						
		95	150						

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/4/20 2:45 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)		(NAD83 UTM in meters)	
L 07469		Q64 Q16 Q4 Sec Tws Rng	X	Y	
		2 1 3 21 18S 36E	653213	3622770*	
Driller License:	208	Driller Company:	VAN NOY, W.L.		
Driller Name:					
Drill Start Date:	02/04/1976	Drill Finish Date:	02/08/1976	Plug Date:	
Log File Date:	02/26/1976	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	30 GPM
Casing Size:	6.63	Depth Well:	160 feet	Depth Water:	70 feet
<hr/>					
Water Bearing Stratifications:		Top	Bottom	Description	
		75	100	Sandstone/Gravel/Conglomerate	
		106	160	Sandstone/Gravel/Conglomerate	
<hr/>					
Casing Perforations:		Top	Bottom		
		120	155		

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/4/20 2:45 PM

POINT OF DIVERSION SUMMARY

APPENDIX D
LABORATORY ANALYTICAL REPORTS



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 15, 2019

SYLWIA REYNOLDS

DEAN

12600 W. COUNTY ROAD 91

MIDLAND, TX 79707

RE: LOVINGTON STATION RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/07/19 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 1 (H903406-01)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEX	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 83.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 10/07/2019
Reported: 10/15/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039 / REMEDIATION
Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH - 2 (H903406-02)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23		
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72		
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07		
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41		
Total BTEX	<0.300	0.300	10/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 83.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 10/07/2019
Reported: 10/15/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039 / REMEDIATION
Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH - 3 (H903406-03)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEx	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 86.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 4 (H903406-04)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23		
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72		
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07		
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41		
Total BTEX	<0.300	0.300	10/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 84.9 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 5 (H903406-05)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23		
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72		
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07		
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41		
Total BTEX	<0.300	0.300	10/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/09/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 83.3 % 41-142

Surrogate: 1-Chlorooctadecane 83.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 10/07/2019
Reported: 10/15/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039 / REMEDIATION
Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH - 6 (H903406-06)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23		
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72		
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07		
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41		
Total BTEx	<0.300	0.300	10/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 86.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 10/07/2019
Reported: 10/15/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039 / REMEDIATION
Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH - 7 (H903406-07)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEX	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 82.9 % 41-142

Surrogate: 1-Chlorooctadecane 82.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 8 (H903406-08)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23		
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72		
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07		
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41		
Total BTEX	<0.300	0.300	10/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 84.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 9 (H903406-09)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23		
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72		
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07		
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41		
Total BTEX	<0.300	0.300	10/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 83.1 % 41-142

Surrogate: 1-Chlorooctadecane 82.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 10/07/2019
Reported: 10/15/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039 / REMEDIATION
Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH - 10 (H903406-10)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEX	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 84.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 10/07/2019
Reported: 10/15/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039 / REMEDIATION
Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH - 11 (H903406-11)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23		
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72		
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07		
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41		
Total BTEX	<0.300	0.300	10/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/09/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 85.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: BH - 12 (H903406-12)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23		
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72		
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07		
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41		
Total BTEX	<0.300	0.300	10/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/09/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 84.0 % 41-142

Surrogate: 1-Chlorooctadecane 85.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 10/07/2019
Reported: 10/15/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039 / REMEDIATION
Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 1 (H903406-13)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23	
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07	
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41	
Total BTEX	<0.300	0.300	10/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	197	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	69.1	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 79.0 % 41-142

Surrogate: 1-Chlorooctadecane 89.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: SW - 2 (H903406-14)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2019	ND	1.93	96.6	2.00	3.23		
Toluene*	<0.050	0.050	10/11/2019	ND	2.04	102	2.00	2.72		
Ethylbenzene*	<0.050	0.050	10/11/2019	ND	2.02	101	2.00	2.07		
Total Xylenes*	<0.150	0.150	10/11/2019	ND	6.14	102	6.00	1.41		
Total BTEx	<0.300	0.300	10/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	11.6	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 91.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 10/07/2019
Reported: 10/15/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039 / REMEDIATION
Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NW - 1 (H903406-15)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2019	ND	1.87	93.4	2.00	3.03	
Toluene*	<0.050	0.050	10/10/2019	ND	1.91	95.4	2.00	2.50	
Ethylbenzene*	<0.050	0.050	10/10/2019	ND	1.93	96.3	2.00	2.53	
Total Xylenes*	<0.150	0.150	10/10/2019	ND	5.76	96.1	6.00	2.79	
Total BTEx	<0.300	0.300	10/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 82.5 % 41-142

Surrogate: 1-Chlorooctadecane 83.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 10/07/2019
Reported: 10/15/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039 / REMEDIATION
Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NW - 2 (H903406-16)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2019	ND	1.87	93.4	2.00	3.03	
Toluene*	<0.050	0.050	10/10/2019	ND	1.91	95.4	2.00	2.50	
Ethylbenzene*	<0.050	0.050	10/10/2019	ND	1.93	96.3	2.00	2.53	
Total Xylenes*	<0.150	0.150	10/10/2019	ND	5.76	96.1	6.00	2.79	
Total BTEx	<0.300	0.300	10/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 83.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: EW - 1 (H903406-17)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2019	ND	1.87	93.4	2.00	3.03	
Toluene*	<0.050	0.050	10/10/2019	ND	1.91	95.4	2.00	2.50	
Ethylbenzene*	<0.050	0.050	10/10/2019	ND	1.93	96.3	2.00	2.53	
Total Xylenes*	<0.150	0.150	10/10/2019	ND	5.76	96.1	6.00	2.79	
Total BTEX	<0.300	0.300	10/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	195	97.3	200	3.90	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	201	100	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 85.8 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 10/07/2019
Reported: 10/15/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039 / REMEDIATION
Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: EW - 2 (H903406-18)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2019	ND	1.87	93.4	2.00	3.03		
Toluene*	<0.050	0.050	10/10/2019	ND	1.91	95.4	2.00	2.50		
Ethylbenzene*	<0.050	0.050	10/10/2019	ND	1.93	96.3	2.00	2.53		
Total Xylenes*	<0.150	0.150	10/10/2019	ND	5.76	96.1	6.00	2.79		
Total BTEX	<0.300	0.300	10/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2019	ND	217	109	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/09/2019	ND	213	107	200	0.704	
EXT DRO >C28-C36	<10.0	10.0	10/09/2019	ND					

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 89.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 10/07/2019
Reported: 10/15/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039 / REMEDIATION
Project Location: PLAINS - LEA COUNTY

Sampling Date: 10/07/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WW - 1 (H903406-19)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2019	ND	1.87	93.4	2.00	3.03	
Toluene*	<0.050	0.050	10/10/2019	ND	1.91	95.4	2.00	2.50	
Ethylbenzene*	<0.050	0.050	10/10/2019	ND	1.93	96.3	2.00	2.53	
Total Xylenes*	<0.150	0.150	10/10/2019	ND	5.76	96.1	6.00	2.79	
Total BTEX	<0.300	0.300	10/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2019	ND	217	109	200	1.33	
DRO >C10-C28*	78.1	10.0	10/09/2019	ND	213	107	200	0.704	
EXT DRO >C28-C36	18.9	10.0	10/09/2019	ND					

Surrogate: 1-Chlorooctane 77.2 % 41-142

Surrogate: 1-Chlorooctadecane 83.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: WW - 2 (H903406-20)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2019	ND	1.87	93.4	2.00	3.03		
Toluene*	<0.050	0.050	10/10/2019	ND	1.91	95.4	2.00	2.50		
Ethylbenzene*	<0.050	0.050	10/10/2019	ND	1.93	96.3	2.00	2.53		
Total Xylenes*	<0.150	0.150	10/10/2019	ND	5.76	96.1	6.00	2.79		
Total BTEX	<0.300	0.300	10/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2019	ND	211	106	200	1.72	
DRO >C10-C28*	<10.0	10.0	10/09/2019	ND	227	113	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	10/09/2019	ND					

Surrogate: 1-Chlorooctane 78.4 % 41-142

Surrogate: 1-Chlorooctadecane 79.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

Received:	10/07/2019	Sampling Date:	10/07/2019
Reported:	10/15/2019	Sampling Type:	Soil
Project Name:	LOVINGTON STATION RELEASE	Sampling Condition:	Cool & Intact
Project Number:	PP-9039 / REMEDIATION	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS - LEA COUNTY		

Sample ID: STOCK PILE (H903406-21)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2019	ND	1.87	93.4	2.00	3.03		
Toluene*	<0.050	0.050	10/10/2019	ND	1.91	95.4	2.00	2.50		
Ethylbenzene*	<0.050	0.050	10/10/2019	ND	1.93	96.3	2.00	2.53		
Total Xylenes*	<0.150	0.150	10/10/2019	ND	5.76	96.1	6.00	2.79		
Total BTX	<0.300	0.300	10/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2019	ND	211	106	200	1.72	
DRO >C10-C28*	<10.0	10.0	10/09/2019	ND	227	113	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	10/09/2019	ND					

Surrogate: 1-Chlorooctane 83.2 % 41-142

Surrogate: 1-Chlorooctadecane 84.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Dean</u>		P.O. #:		BILL TO				ANALYSIS REQUEST					
Project Manager: <u>Sylvia Reynolds</u>		Company: <u>Plains</u>											
Address: <u>1860 W Cedar St</u>		Attn: <u>Amber Graves</u>											
City: <u>Midland</u> State: <u>TX</u> Zip: <u>79707</u>		Address:											
Phone #: <u>(432) 4803</u> Fax #:		City:											
Project #: <u>PP-9039</u> Project Owner: <u>Plains</u>		State:											
Project Name: <u>Louington Station Remediation</u>		Zip:											
Project Location: <u>Hobbs, Lea County</u>		Phone #:											
Sample Name: <u>Phenol Wastes</u>		Fax #:											
FOR LAB USE ONLY													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING	
								GROUNDWATER					
								WASTEWATER					
								SOIL					
								OIL					
								SLUDGE					
								OTHER :					
								ACID/BASE:					
								ICE / COOL					
								OTHER :					
								DATE					
								TIME					
<u>A90340</u>		<u>BH-1</u>		<u>61</u>		<u>10/6/19</u>		<u>8:31 AM</u>		<u>TPH 80 15 M EXT.</u>			
<u>1</u>		<u>BH-2</u>		<u>1</u>		<u>8:40 AM</u>		<u>9:40 AM</u>		<u>BTEX 8021</u>			
<u>2</u>		<u>BH-3</u>		<u>1</u>		<u>8:45 AM</u>		<u>9:45 AM</u>		<u>Chlorides</u>			
<u>3</u>		<u>BH-4</u>		<u>1</u>		<u>8:50 AM</u>		<u>9:50 AM</u>					
<u>4</u>		<u>BH-5</u>		<u>1</u>		<u>8:55 AM</u>		<u>9:55 AM</u>					
<u>5</u>		<u>BH-6</u>		<u>1</u>		<u>9:00 AM</u>		<u>9:00 AM</u>					
<u>6</u>		<u>BH-7</u>		<u>1</u>		<u>9:05 AM</u>		<u>9:05 AM</u>					
<u>7</u>		<u>BH-8</u>		<u>1</u>		<u>9:10 AM</u>		<u>9:10 AM</u>					
<u>8</u>		<u>BH-9</u>		<u>1</u>		<u>9:15 AM</u>		<u>9:15 AM</u>					
<u>9</u>		<u>BH-10</u>		<u>1</u>		<u>9:20 AM</u>		<u>9:20 AM</u>					
<u>10</u>				<u>1</u>		<u>9:25 AM</u>		<u>9:25 AM</u>					

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: <u>10-7-19</u>	Received By:	Date: <u>10-7-19</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>Sylvia Reynolds</u>	Date: <u>10-7-19</u>	Received By: <u>Amber Graves</u>	Date: <u>10-7-19</u>	All Results are emailed. Please provide Email address:	
REMARKS: <u>Sylvia Reynolds@cardinalnm.com</u>					
<u>Amber Graves@cardinalnm.com</u>					
<u>Phenol Wastes@cardinalnm.com</u>					
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>Y.R.</u>	Thermometer ID #97	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
		Corrected Temp. °C		Correction Factor + 0.4 °C	Observed Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabsnm.com



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Dean		BILL TO		ANALYSIS REQUEST							
Project Manager: Sylvia Reynolds		P.O. #:									
Address: 12600 W. Central		Company: Plains									
City: Midland		Attn: Ambergraves									
State: TX Zip: 79707		Address:									
Phone #: (432) 653-4203 Fax #:		City:									
Project #: PP-9039 Project Owner:		State:									
Project Name: Loungston Station Remediation		Zip:									
Project Location: Hobbs, Lea County		Phone #:									
Sampler Name: Debbie Nunez		Fax #:									

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH	BTEX	Chlorides						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:											
H963406	BH-11		1								10/6/11	9:18 AM	✓	✓	✓						
	BH-12		1								10/6/11	9:12 AM	✓	✓	✓						
	SW-1		1								10/6/11	9:10 AM	✓	✓	✓						
	SW-2		1								10/6/11	9:10 AM	✓	✓	✓						
	SW-1		1								10/6/11	10:28 AM	✓	✓	✓						
	SW-2		1								10/6/11	10:28 AM	✓	✓	✓						
	SW-1		1								10/6/11	10:28 AM	✓	✓	✓						
	SW-2		1								10/6/11	10:28 AM	✓	✓	✓						
	SW-1		1								10/6/11	10:28 AM	✓	✓	✓						
	SW-2		1								10/6/11	10:28 AM	✓	✓	✓						

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Debbie Nunez	Date: 10-7-11	Received By: Ambergraves	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: Debbie Nunez	Date: 10-7-11	Received By: Ambergraves	All Results are emailed. Please provide Email address:	
Delivered By: (Circle One) UPS	Observed Temp. °C 5.4	Sample Condition Intact	Turnaround Time: 10:28 AM	Bacteria (only) <input type="checkbox"/> Standard <input type="checkbox"/> Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C 6.0	Checked By: TP	Thermometer ID #97	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
			Correction Factor + 0.4 °C	Observed Temp. °C
				Corrected Temp. °C

Don

BILL TO

Project Manager:	Sylvia Reynolds	P.O. #:	Plain 5
Address:	12600 Wice rd q1	Company:	
City:	Midland	Attn:	Amber Graves
State:	TX	Address:	
Zip:	79707	City:	
Phone #:	(439) 653-4203	State:	
Fax #:		Zip:	
Project #:	RP-9039	Phone #:	
Project Owner:		Fax #:	
Project Name:	Levington Station Remediation		
Project Location:	Arbidos, Lee County		
Sampler Name:	Phoebe Hunter		

[illegible]

Relinquished By:

Date: 2-19

Received By:

Relinquished By: [Signature]

Date: 16:00

Received By:

Delivered By: (Circle One)

Observed Temp. °C 5.6

Sample Condition

CHECKED BY:

Turnaround Time:

Standard Blush

☐

Bacteria (only)

Sample Condition

FOKIV-006 K.S.D

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 02, 2019

SYLWIA REYNOLDS

DEAN

12600 W. COUNTY ROAD 91

MIDLAND, TX 79707

RE: LOVINGTON STATION RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/27/19 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 09/27/2019
Reported: 10/02/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039
Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NT @ 2' (H903327-01)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTEX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.1 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 09/27/2019
Reported: 10/02/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039
Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NT @ 4' (H903327-02)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTEX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.9 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 81.5 % 41-142

Surrogate: 1-Chlorooctadecane 84.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 09/27/2019
Reported: 10/02/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039
Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NT @ 6' (H903327-03)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTEX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.2 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 84.4 % 41-142

Surrogate: 1-Chlorooctadecane 87.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 09/27/2019
Reported: 10/02/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039
Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: ET @ 2' (H903327-04)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTEX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.5 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 81.2 % 41-142

Surrogate: 1-Chlorooctadecane 86.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 09/27/2019
Reported: 10/02/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039
Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: ET @ 4' (H903327-05)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTEX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.2 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 77.4 % 41-142

Surrogate: 1-Chlorooctadecane 80.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

 Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

 Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ET @ 6' (H903327-06)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.7 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 86.1 % 41-142

Surrogate: 1-Chlorooctadecane 89.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 DEAN
 SYLWIA REYNOLDS
 12600 W. COUNTY ROAD 91
 MIDLAND TX, 79707
 Fax To:

 Received: 09/27/2019
 Reported: 10/02/2019
 Project Name: LOVINGTON STATION RELEASE
 Project Number: PP-9039
 Project Location: PLAINS - LEA COUNTY

 Sampling Date: 09/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WT @ 2' (H903327-07)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.2 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 79.9 % 41-142

Surrogate: 1-Chlorooctadecane 81.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 09/27/2019
Reported: 10/02/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039
Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WT @ 4' (H903327-08)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.8 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	11.9	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 80.5 % 41-142

Surrogate: 1-Chlorooctadecane 84.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 09/27/2019
Reported: 10/02/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039
Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WT @ 6' (H903327-09)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTEX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.2 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 80.6 % 41-142

Surrogate: 1-Chlorooctadecane 82.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 09/27/2019
Reported: 10/02/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039
Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: ST @ 2' (H903327-10)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.5 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/30/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 80.6 % 41-142

Surrogate: 1-Chlorooctadecane 84.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 09/27/2019
Reported: 10/02/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039
Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: ST @ 4' (H903327-11)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTEX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.9 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/30/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	85.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	25.4	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 76.8 % 41-142

Surrogate: 1-Chlorooctadecane 85.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 09/27/2019
Reported: 10/02/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039
Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: ST @ 6' (H903327-12)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTEX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.9 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 76.8 % 41-142

Surrogate: 1-Chlorooctadecane 79.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 09/27/2019
Reported: 10/02/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039
Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: RLP @ 2' (H903327-13)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37		
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82		
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82		
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40		
Total BTX	<0.300	0.300	09/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.8 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	21.5	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 83.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 09/27/2019
Reported: 10/02/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039
Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: RLP @ 4' (H903327-14)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.3 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	479	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	129	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 77.1 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 09/27/2019
Reported: 10/02/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039
Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: RLP @ 6' (H903327-15)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37	
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82	
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82	
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40	
Total BTX	<0.300	0.300	09/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.3 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	17.0	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 77.3 % 41-142

Surrogate: 1-Chlorooctadecane 81.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DEAN
SYLWIA REYNOLDS
12600 W. COUNTY ROAD 91
MIDLAND TX, 79707
Fax To:

Received: 09/27/2019
Reported: 10/02/2019
Project Name: LOVINGTON STATION RELEASE
Project Number: PP-9039
Project Location: PLAINS - LEA COUNTY

Sampling Date: 09/27/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 1 (H903327-16)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2019	ND	1.80	89.9	2.00	5.37		
Toluene*	<0.050	0.050	09/30/2019	ND	1.77	88.7	2.00	6.82		
Ethylbenzene*	<0.050	0.050	09/30/2019	ND	1.75	87.3	2.00	5.82		
Total Xylenes*	<0.150	0.150	09/30/2019	ND	5.30	88.3	6.00	5.40		
Total BTEx	<0.300	0.300	09/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/30/2019	ND	215	108	200	12.8	
DRO >C10-C28*	242	10.0	09/30/2019	ND	211	106	200	11.2	
EXT DRO >C28-C36	61.1	10.0	09/30/2019	ND					

Surrogate: 1-Chlorooctane 78.5 % 41-142

Surrogate: 1-Chlorooctadecane 92.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>DRAIN</u>		P.O. #:		BILL TO		ANALYSIS REQUEST		
Project Manager: <u>Sylvia Reynolds</u>		Company: <u>Fairly</u>						
Address: <u>1200 WKE-71</u>		Attn: <u>Mrs. Reynolds</u>						
City: <u>Midland</u>	State: <u>TX</u>	Zip: <u>79707</u>						
Phone #: <u>432-227-5317</u>	Fax #:	Address: <u>Campbell</u>						
Project #: <u>PR-9039</u>	Project Owner:	City: <u>Bryan</u>						
Project Name: <u>Lovington Station Repair</u>	State:	Zip:						
Project Location: <u>Lee County</u>	Phone #: <u>575-290-5558</u>	Fax #: <u>575-441-1099</u>						
Sampler Name: <u>Debbie Nunez</u>								
FOR LAB USE ONLY								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE
				OTHER :	ACID/BASE:	ICE / COOL	OTHER :	
H903327	NT @ 2 FT	G-1	1	X		9/27	5:00	x TPH (8015 Ext)
1	NT @ 4 FT	G-1	1	X		9/27	5:15	x BTEX 8021
2	NT @ 6 FT	G-1	1	X		9/27	5:30	x Chlorides
3	FT @ 4 FT	G-1	1	X		9/27	6:00	
4	FT @ 4 FT	G-1	1	X		9/27	6:15	
5	FT @ 4 FT	G-1	1	X		9/27	6:30	
6	FT @ 6 FT	G-1	1	X		9/27	6:45	
7	WT @ 2 FT	G-1	1	X		9/27	6:00	
8	WT @ 4 FT	G-1	1	X		9/27	6:15	
9	WT @ 6 FT	G-1	1	X		9/27	6:30	
10	ST @ 2 FT	G-1	1	X		9/27	6:45	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>	Date: <u>9/27/17</u>	Received By: <u>[Signature]</u>	Date: <u>9/27/17</u>
Time: <u>3:35</u>	Time: <u>3:35</u>	Time:	Time:

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

All Results are emailed. Please provide Email address:

REMARKS: Problem with drain pipe. Clogged drain pipe. Clogged drain pipe. Clogged drain pipe.

Turnaround Time: Standard ☒ Rush ☐

Thermometer ID #97 ☐ **Correction Factor +0.4 °C** ☐

Standard ☐ **Bacteria (only Sample Condition)** ☐

Cool Intact ☐ **Cool Intact** ☐

Yes ☐ **No** ☐ **Yes** ☐ **No** ☐

Corrected Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Pran		BILL TO		ANALYSIS REQUEST	
Project Manager: Jynna Kennedy					
Address: 13900 W124th		P.O. #:			
City: Midland		State: TX		Zip: 79701	
Phone #: 432-327-5369		Fax #:			
Project #: PP-7037		Project Owner:			
Project Name: Longman Station		City:			
Project Location: Red County		State:		Zip: 79701	
Sample Name: Frederick Avenue		Phone #: 9575-3405		Fax #: 9575-3405	
FOR LAB USE ONLY		MATRIX		SAMPLING	
Lab I.D. H963327		(G)RAB OR (C)OMP.			
Sample I.D.		# CONTAINERS			
<div style="display: flex; justify-content: space-between;"> <div> 11 ST @ 4FT 12 ST @ 6FT 13 PIP @ 2FT 14 PIP @ 4FT 15 PIP @ 6FT 16 SP-1 </div> <div> 9/27 10:45 11:00 11:15 11:30 11:45 12:00 </div> </div>		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER :			
ACID/BASE:					
ICE / COOL					
OTHER :					
DATE		TIME			
TPH 8015 M Ext					
BTEX 8021					
Chlorides					

APPENDIX E
PHOTOGRAPHIC DOCUMENTATION

Photograph No 1.

Date: September 26, 2019

Direction: Southwest

Description: View of excavation at former tank battery location.



Photograph No 2.

Date: September 30, 2019

Direction: West

Description: View of excavation of former tank battery.



Photograph No 3.

Date: October 7, 2019

Direction: Northwest

Description: View of completed excavation at former tank battery location.



Photograph No 4.

Date: October 29, 2019

Direction: Southwest

Description: View of backfilled excavation.



APPENDIX F

FIELD DATA



TASK DESCRIPTION: Sample location

JOB NUMBER:

JOB LOCATION:

Pp 9039

Covington station remediation

COMPLETED BY:

Jose bellac

DATE:

10/07/19

TIME:

5:00 AM - 7:00 PM

WEATHER:

Cloudy

PH:432-653-4203

DAILY LOG

TIME		DESCRIPTION
FROM	TO	
6:00 AM	8:00 AM	Left shop drove to location
8:00 AM	11:00 AM	Pulled 20 samples 12 floor sample 8 wall samples
		Bh 1 chl- non detect. Pid 1.3
		BH 2 chl non detect. Pid 1.0
		BH 3 chl non detect. Pid .5
		BH-4 chl non detect. Pid 2.4
		BH-5 Chl 180. Pid 2.2
		BH-6 chl non detect. Pid 1.0
		BH-7 non detect. Pid 1.8
		BH-8 non detect Pid 2.0
		BH-9 chloride - 152 pid 1.1
		BH-10 non detect Pid 1.7
		BH-11 non detect Pid 1.2
		BH-12 non detect Pid 1.5
		Sw-1 non detect Pid 27.1
		Sw-2 non detect Pid 1.8
		NW-1 non detect Pid .9
		EW-1 non detect Pid 1.0
		EW-2 non detect Pid 1.5
		WW-1 non detect Pid 12.8
		WW-2 non detect Pid .9
1:00 PM	2:00 PM	Finished running all samples for chlorides, and pid the samples then put them in jars.
2:00 PM	3:00 PM	Drove to hobbs to wassen to meet with Robert to check coc
3:00 PM	4:00 PM	Robert and I double checked coc on samples.
4:00 PM	5:00 PM	Drove to cardinal lab to drop off samples.
5:00 PM	7:00 PM	Drove to shop excavation 60 feet long x 40 feet wide x 6 feet deep. Also pulled stock pile sample and a waste characterization sample

SUPERVISOR:

APPENDIX G
WASTE MANIFESTS

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: _____

Waste material placed in cell number: A7

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

2 loads

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: 1200

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

1 Load

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: 24

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

2 loads

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: Philip P. P. L.P.

Address: 500 Big Spring St. Suite 600

Phone #: 804-777-9039

Originating Location of waste material:

Lease Name: Leasing Station

Sec. _____ T _____ R _____

Transporter Information:

Name: Waste Management Services, LLC

Address: _____

Phone #: _____

Driver Signature: Dan Berry

Date: 10-25-19

Non-Hazardous Hydro-Carbons:

of Yards: 24

Waste material placed in cell number: 117

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

2 loads

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: PLAINS TRAILING, L.P.

Address: 500 W. SPRING ST. SUITE 100

Phone #: 409-211-9039

Originating Location of waste material:

Lease Name: INTRO STATION

Sec. _____ T _____ R _____

Transporter Information:

Name: JOHN BERRY, KTS TRUCKING

Address: P.O. BOX 2637

Phone #: 505-342-5294

Driver Signature: [Signature]

Date: 11-25-11

Non-Hazardous Hydro-Carbons:

of Yards: 24

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

2 loads

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: 24

Waste material placed in cell number: 117

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

2 loads

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: 211

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

2 loads

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: John P. P. P.

Address: 500 Pine Street Suite 600

Phone #: 702 4717 9039

Originating Location of waste material:

Lease Name: Livingston Station

Sec. T R

Transporter Information:

Name: Wagon Trucking

Address: 226 S. Thompson

Phone #: 932 207 7222

Driver Signature: [Signature]

Date: 10-25-17

Non-Hazardous Hydro-Carbons:

of Yards: 24 yds

Waste material placed in cell number:

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: Date:

White - Original

Canary - Invoice

Pink - Trucker

2 loads

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: Plains Pipeline, L.P.
Address: 500 E. Spring St. Suite 600
Phone #: Midland 7x 77701

Originating Location of waste material:

Lease Name: Louisa Station
Sec. T R

Transporter Information:

Name: Kyles Trucking, LLC
Address: 326 S. Third St
Phone #: (432) 207-0202
Driver Signature: [Signature]
Date: 10-28-17

Non-Hazardous Hydro-Carbons:

of Yards: 4

Waste material placed in cell number:

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: Date:
White - Original Canary - Invoice Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: 1224

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: LAZY ACE LANDFARM LP

Address: 300 - PRINCE ST SUITE 600

Phone #: _____

Originating Location of waste material:

Lease Name: LAZY ACE LANDFARM

Sec. _____ T _____ R _____

Transporter Information:

Name: JSC CASTRO

Address: _____

Phone #: 755 372 2414

Driver Signature: JSC CASTRO

Date: 10-27-2017

Non-Hazardous Hydro-Carbons:

of Yards: 12-13

Waste material placed in cell number: A7

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Lazy Ace Landfarm

Name: Pranshu Kumar

Address: 500 5th St NW

Phone #: _____

Lease Name: 1206100/500000

Sec. _____ T _____ R _____

Name: Travis Johnson

Address: P.O. Box 2033, Honolulu, HI 96811

Phone #: 575-740-72-94

Driver Signature: _____

Date: 10-28-19

of Yards: 24

Waste material placed in cell number: _____

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations; and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: Plains Pipeline LP
Address: 500 Pegasus St Suite 100
Phone #: _____

Originating Location of waste material:

Lease Name: Leasing Trn Station
Sec. _____ T _____ R _____

Transporter Information:

Name: Co2 Transport
Address: 108 E Mesquite Dr Hobbs, N.M. 88240
Phone #: 505 399-8200
Driver Signature: [Signature]
Date: 10-25-19

Non-Hazardous Hydro-Carbons:

of Yards: 12

Waste material placed in cell number: A-7

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____
White - Original Canary - Invoice Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: _____

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:Name: Royce TruckingAddress: 3265 Thorp. Hobbs NM 88240Phone #: 432-209 0208Driver Signature: Alex LopezDate: 10-28 19**Non-Hazardous Hydro-Carbons:**# of Yards: 211

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: Phila. Waste Inc. L.P.

Address: 500 Dine St. Suite 600 Dallas TX

Phone #: 214-751-1234

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: Deves Trucking Inc

Address: 326 S. Thon Highway 88249

Phone #: 432-709-0708

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: 241

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: Plains Pipeline L.P.
Address: 500 Big Spring St., Suite 600
Phone #: Milledale Tx 79701

Originating Location of waste material:

Lease Name: Longhorn Station
Sec. _____ T _____ R _____

Transporter Information:

Name: Plains Trucking Inc.
Address: 226 S. 7th St. Dallas, TX
Phone #: (214) 227-2208
Driver Signature: [Signature]
Date: 10-27-17

Non-Hazardous Hydro-Carbons:

of Yards: 48 yds

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste arc: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: _____

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: Plain Pipeline LP

Address: 500 Big Spring St. Sub 600 Midland TX 79701

Phone #: _____

Originating Location of waste material:

Lease Name: Lovington Station

Sec. _____ T _____ R _____

Transporter Information:

Name: Acid Trucking

Address: 370 S. 1st St. Midland TX 79701

Phone #: 432-207-0208

Driver Signature: _____

Date: 10-29-19

Non-Hazardous Hydro-Carbons:

of Yards: 48

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: LAZY ACE LANDFARM LP

Address: 500 SPRING ST. STATE

Phone #: _____

Originating Location of waste material:

Lease Name: LOUISIANA STATE

Sec. _____ T _____ R _____

Transporter Information:

Name: LAZY ACE LANDFARM LP

Address: _____

Phone #: 504-790-7414

Driver Signature: J. C. CHAPMAN

Date: 10-27-2019

Non-Hazardous Hydro-Carbons:

of Yards: 36

Waste material placed in cell number: A7

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: W. P. Smith

Address: 2010 S. Highway 100

Phone #: 702-792-1111

Originating Location of waste material:

Lease Name: W. P. Smith

Sec. 1 T 1 R 1

Transporter Information:

Name: W. P. Smith

Address: 1000 E. Highway 100

Phone #: 702-792-1111

Driver Signature: W. P. Smith

Date: 10-27-19

Non-Hazardous Hydro-Carbons:

of Yards: 45

Waste material placed in cell number: 1

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: _____

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: 48

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: LAZY ACE LANDFARM L.P.

Address: 500 N. 2nd St. Suite 100

Phone #: _____

Originating Location of waste material:

Lease Name: LAVERGNE STATION

Sec. _____ T _____ R _____

Transporter Information:

Name: LAZY ACE TRANSPORT

Address: P.O. Box 1031 Laverne, NM

Phone #: _____

Driver Signature: [Signature]

Date: 10-29-19

Non-Hazardous Hydro-Carbons:

of Yards: 240

Waste material placed in cell number: A-7

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: PLAINS PIPELINE LP

Address: 500 SPRING STATION

Phone #: _____

Originating Location of waste material:

Lease Name: LOVINGTON STATION

Sec. _____ T _____ R _____

Transporter Information:

Name: TSC (P-100)

Address: _____

Phone #: 575-370-2414

Driver Signature: TSC (P-100)

Date: 10-30-2011

Non-Hazardous Hydro-Carbons:

of Yards: 36

Waste material placed in cell number: A7

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: 10-30-11

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: _____

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: 24

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

P.O. 4737-9039

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: Plains Pipeline, L.P.
Address: 500 R. Spinas St. Suite 600
Phone #: Milford TX 79701

Originating Location of waste material:

Lease Name: Lanier Station
Sec. _____ T _____ R _____

Transporter Information:

Name: Kyle Trucking LLC
Address: 326 S. 7th St
Phone #: 832 209 0208
Driver Signature: [Signature]
Date: 10-30-19

Non-Hazardous Hydro-Carbons:

of Yards: 36 yds

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: 36

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker

Manifest #

Lazy Ace Landfarm

Lease Operator Information:

Name: _____

Address: _____

Phone #: _____

Originating Location of waste material:

Lease Name: _____

Sec. _____ T _____ R _____

Transporter Information:

Name: _____

Address: _____

Phone #: _____

Driver Signature: _____

Date: _____

Non-Hazardous Hydro-Carbons:

of Yards: 36

Waste material placed in cell number: _____

Lazy Ace Landfarm, L.L.C.
P.O. Box 130
Eunice, NM 88231

Permit # NM 01-0041
W1/2SW1/4 S22T20SR34E

Contacts:

Danny Berry
(575) 393-6964 - Home
(575) 369-5266 - Cell

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations, exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

Facility Representative: _____ Date: _____

White - Original

Canary - Invoice

Pink - Trucker