State of New Mexico
Oil Conservation Division

Incident ID	nAPP2110248840
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

☒ Detailed description of proposed remediation technique
☒ Scaled sitemap with GPS coordinates showing delineation points
☒ Estimated volume of material to be remediated
☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☒ Extents of contamination must be fully delineated.

☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Amber Groves Title: Remediation Coordinator

Signature: Amber Groves Date: 7/14/2021

email: algroves@paalp.com Telephone: (575)200-5517

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

12600 WEST CO RD 91

MIDLAND, TX 79707

OFFICE: 432.653.4203

SOIL REMEDIATION ACTIVITIES REPORT AND DEFERRAL REQUEST

PLAINS MARKETING, L.P.

THOMAS STATION RELEASE

EDDY COUNTY, NM

NMOCD INCIDENT #: nAPP2110248840

SRS #: 2021-018 & 2021-020

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June 29, 2021

New Mexico Oil Conservation Division District II
811 South 1st
Artesia, New Mexico 88210

Re: **Soil Remediation Activities Report and Deferral Request**
Thomas Station Release
Unit Letter I, Section 23, Township 23S, Range 31E
GPS: N 32.2864°, W -103.7402°
Eddy County, New Mexico
NMOCD Incident #: nAPP2110248840
SRS #: 2021-018 & 2021-020

1. Introduction

Dean Companies, Inc. (Dean) is pleased to present this Soil Remediation Activities Report and Deferral Request to Plains Marketing, L.P. (Plains) to document the field soil remediation activities that were conducted at the Thomas Station Release site. The crude oil release occurred, approximately 20.80 miles east of Loving in Eddy County, New Mexico in Unit Letter I, Section 23, Township 23S, and Range 31E. The GPS coordinates for the site is N 32.2864° and W -103.7402°. A "Site Location Map" and "Topographic Map" are provided as Figures 1 and 2, respectively. The surface is owned by the Bureau of Land Management (BLM).

2. Release Description and Response

Two crude oil releases occurred at the Thomas Station which were attributed to an air eliminator failure on the sales LACT unit on April 2 (non-reportable) and April 10 (reportable). For the April 2 release, approximately two (2) barrels (bbls) of crude was released with no (0) bbls recovered for a net loss of two (2) bbls of crude oil. For the April 10 release, approximately twenty (20) bbls of crude was released with fourteen (14) bbls recovered for a net loss of seven (7) bbls of crude oil. The release occurred within the excavation of the initial April 2 release and was contained to a tank battery pad with surface

land owned by the Bureau of Land Management (BLM). The releases measured approximately thirty-nine (39) feet (ft) in length by five (5) ft in width to a maximum depth of four (4) ft below ground surface (bgs).

Dean was assigned management oversite responsibilities for impacted soil delineation, remediation, soil sampling, site restoration, and reporting activities by Plains for the two releases on April 2 and April 10, 2021. On April 12, 2021, Plains submitted the initial C-141 Form to the NMOCD and BLM. See Appendix A for filed C-141.

3. NMOCD Regulatory Limits

New Mexico Oil Conservation Division (NMOCD) assessment and cleanup levels for hydrocarbon and produced water releases are based on depth to groundwater and follow the criteria in the revised August 2018 Title 19 Chapter 15 Part 29 New Mexico Administration Code (19.15.29 NMAC) regulations. 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 are located in or near Unit Letter I, Section 23, Township 23S, and Range 31E. Neither of the two databases identified any registered water wells within a half mile of Unit Letter I, Section 23, Township 23S, and Range 31E. The nearest water well (C 02348) is approximately one (1) mile south of the site with a depth to groundwater at approximately 430 feet bgs. 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 the Pecos River located approximately 14.94 miles west southwest of the site. With the release located on a pad and no water wells located within a ½-mile radius of site, the NMOCD restoration and cleanup levels for soils impacted by hydrocarbons in areas of low potential karst topography are as follow:

- Chloride 600 mg/Kg
- Total TPH 100 mg/Kg
- Benzene 10 mg/Kg
- Total BTEX 50 mg/Kg

4. Initial Release Soil Delineation Assessment and Remediation Activities with Sample Analysis

Between April 2 and April 10, 2021, Dean Personnel conducted oversite of soil delineation, remediation, and sampling activities of the initial two (2) bbl. release. Remediation commenced utilizing a backhoe

and hand excavation of hydrocarbon impacted soils adjacent to the LACT unit and ancillary piping with the excavated soils stockpiled on plastic. In order to complete delineation and remediation of the release, field screening utilizing a photoionization detector (PID) and chloride field test kits were conducted on the soils. Based on field PID and chloride screening the site was initially excavated to depths ranging from one (1) ft bgs near north side of release to three (3) ft bgs near south side of release. The initial release was contained on the pad adjacent to the LACT unit and measured dimensions of approximately thirty-nine (39) ft in length by five (5) ft in width.

Upon completion of the initial release, one composite bottom hole sample (BH-1 @ 1.5') was collected based on a 200 square foot grid 5-point composite and submitted to Permian Basin Environmental Labs of Midland, Texas (PBELAB) for analysis of total petroleum hydrocarbons (TPH) utilizing Method SW-846 8015M, benzene, toluene, ethylbenzene, and xylenes (BTEX) utilizing Method SW-846 8021B, and chlorides utilizing Method 300.0. Analytical results for the sample were below the NMOCD Recommended Remediation Action Level (RRAL) for benzene, BTEX, TPH and chlorides. See Table 1 for initial delineation analytical results. Laboratory reports containing analytical methods, results, and chain-of-custody documents are included in Appendix B.

5. Reportable Release with Soil Assessment Activities and Sample Analysis

On April 10, 2021, a second release occurred at the facility from the LACT unit resulting in twenty (20) bbls of crude released and contained within the initial excavation of April 2 release. Fourteen (14) bbls were recovered via a vacuum truck for a net loss of six (6) bbls. Initial response included removal of additional saturated soils within the excavation with the soils stockpiled on plastic.

On April 13, 2021, Dean personnel were onsite to perform soil assessment activities at the release. A hand auger was utilized to collect soil samples from six (6) auger hole locations (AH-1, AH-1 HE, AH-2, AH-2 HS, AH-3 HN, and AH-4 HW) with AH-1 HE taken at an angle in the LACT unit east wall, AH-3 HN at an angle into the north wall of excavation, AH-4 HW at an angle along the west wall, and AH-2 HS at an angle into the south wall and underneath the containment. Grab soil samples were collected from the six (6) auger holes from one (1) to two (2) ft intervals beginning at the base of the excavation (approximately a half (1/2) ft to four (4) ft bgs) to maximum depths ranging from two (2) to fourteen (14) ft bgs. and placed into laboratory-provided sample containers, labeled, stored on ice, and transported under proper chain-of-custody documentation to PBELAB for analysis of TPH, BTEX and chlorides. See Figure 4 "Delineation Soil Sample Location Map". The Benzene concentrations exceeded the NMOCD standards of 10 milligrams per kilograms (mg/Kg) for soil samples AH-1 @ 7' (38.2 mg/Kg) and AH-1 @ 9' (48.7 mg/Kg). All remaining soil samples analyzed for Benzene were either below

method detection limits (MDL) or the NMOCD standard. Total BTEX exceeded the NMOCD standards of 50 mg/Kg for soil samples AH-1 @ 5' (292.1 mg/Kg), AH-1 @ 7' (836.1 mg/Kg), and AH-1 @ 9' (1,421.7 mg/Kg). All remaining soil samples analyzed for total BTEX were either below MDL or the NMOCD standards. The total TPH exceeded the NMOCD standards of 100 mg/Kg for soil samples AH-1 @ 5' (14,490 mg/Kg), AH-1 @ 7' (27,420 mg/Kg), AH-1 @ 9' (35,910 mg/Kg), AH-1 @ 11' (3,784 mg/Kg), AH-1 @ 13' (1,413 mg/Kg), and AH-1 HE @ 1' (110 mg/Kg). All remaining soil samples analyzed for Total TPH were either below MDL or the NMOCD standard. During initial sampling, Auger Hole AH-1 Total TPH concentration was not delineated with depth. In order to complete delineation, the site was hand augered to a depth of 14 ft bgs near AH-1 and resampled for BTEX, Chlorides and TPH on April 27, 2021. The analytical results for the Benzene, BTEX, Total TPH, and chlorides were below NMOCD standards. The chloride concentrations for all samples were below the NMOCD standard of 600 mg/Kg.

On April 27, 2021, after further excavation of the site, three (3) side wall samples (CS-NW @ 6", CS-EW @ 2', and CS-WW @ 2') were collected based on a 200 square ft grid 5-point composite and submitted for analysis of Benzene, Total BTEX, Total TPH and chlorides. See Figure 5 "Confirmation Soil Sample Location Map". Total TPH concentrations exceeded the NMOCD standards of 100 mg/Kg for soil samples CS-NW @ 6" (104.6 mg/Kg) and CS-EW @ 2' (143 mg/Kg). All other soil sample concentrations were either below MDL or NMOCD standards for Benzene, total BTEX, total TPH and chlorides.

After further excavation, the wall samples were resampled for Total TPH on May 6, 2021. Both Total TPH concentrations were below the NMOCD standards of 100 mg/Kg. See Table 1 for delineation analytical results. Laboratory reports containing analytical methods, results, and chain-of-custody documents are included in Appendix B.

Due to limited accessibility and to ensure structural integrity of the LACT unit, the site for the initial release was excavated to dimensions of approximately thirty-nine (39) ft in length to five (5) ft in width to a maximum depth of one and a half (1.5) ft bgs and after second release to final dimensions of approximately forty-two (42) ft in length to eight (8) ft in width to a maximum depths of two (2) ft to four (4) ft bgs (See site photographs showing location of AH-1 and LACT area with remaining hydrocarbon impact for deferral). To ensure the integrity of the vibrating equipment within the LACT and prevent a possible collapse of soils around the unit the remaining nine (9) ft of impacted soil in AH-1 were left in-situ along with the impacted soils on the south wall of excavation, which abuts against the tank battery, and will be deferred until time of abandonment or replacement/upgrade of the LACT unit. See attached Photographs in Appendix C.

In an email dated May 17, 2021, Plains submitted a request to the BLM for permission to backfill the site as well as a deferral request for the remaining hydrocarbons left in-situ. On May 24, 2021, the BLM gave a verbal approval to backfill the site. See Appendix D for the Plain's requested backfill request to BLM.

6. Soil Disposal, Site Restoration with Variance and Deferral Request

On May 27, 2021, approximately 264 cubic yards of soil were transported offsite for disposal at Lea Land Disposal in Carlsbad, New Mexico. The site was then backfilled with locally sourced non-impacted soils and brought up to surface grade and contoured to match surrounding topography. Manifests are available upon request.

Plains respectfully requests a variance to the current rule to include a deferral of cleanup/remediation for impacted soils remaining from four (4) ft to thirteen (13) ft bgs on the south side of LACT unit and adjacent to and beneath the tank battery containment due to limited accessibility (4 ft between Plains LACT and tank battery containment) and to ensure the structural integrity of the LACT unit until time of abandonment or upgrade to the system. With the depth of groundwater estimated at approximately 430 ft bgs, Plains believes any remaining inaccessible hydrocarbon impacted soils is not likely to impact the underlying groundwater.

With completion of the vertical and horizontal delineation, remediation of accessible soils, and backfilling of the excavation with locally sourced non-impacted soils, Plains respectfully requests that the NMOCD consider the site for deferral. A final C-141 deferral is 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 Steve Casanova (email: stevecasanova@deandigs.com, cell: 432.557.1968) or Jeff Kindley (email: jeffreykindley@deandigs.com cell: 432.230.0920) of Dean.

Sincerely,

Steve Casanova
Project Manager

Jeffrey Kindley, PG.
Professional Geologist

TABLE

Chemistry Table 1

Concentrations of Benzene, BTEX, Chlorides, and TPH in soil

Plains Pipeline, L.P.

Thomas Station 4.10.21 Reportable Release

Eddy County, New Mexico

SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030					METHOD: E 300	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)
AH-1 @ 5'	04/13/21	5 FT	GRAB	SOIL	6.44	80.3	45.9	159.5	292.14	7.60	4,530	8,550	13,080	1,410	14,490
AH-1 @ 7'	04/13/21	7 FT	GRAB	SOIL	38.2	278	111	408.9	836.1	3.44	10,200	14,800	25,000	2,420	27,420
AH-1 @ 9'	04/13/21	9 FT	GRAB	SOIL	48.7	422	207	744	1,421.7	-	12,700	19,500	32,200	3,710	35,910
AH-1 @ 11'	04/13/21	11 FT	GRAB	SOIL	0.123	1.88	1.77	8.75	12.52	-	716	2,670	3,386	398	3,784
AH-1 @ 13'	04/13/21	13 FT	GRAB	SOIL	-	-	-	-	-	-	184	1,060	1,244	169	1,413
AH-1 @ 14'	04/27/21	14 FT	GRAB	SOIL	<0.00132	<0.00132	<0.00132	<0.00132	<0.00132	29.3	<32.9	<32.9	<32.9	<32.9	<32.9
AH-2 @ 2'	04/13/21	2 FT	GRAB	SOIL	0.00101	0.00368	<0.00101	<0.00202	0.00469	<1.01	<25.3	33.4	33.4	<25.3	33.4
AH-2 @ 3'	04/13/21	3 FT	GRAB	SOIL	-	-	-	-	-	<1.02	-	-	-	-	-
AH-2 HS @ 1'	04/13/21	1 FT	GRAB	SOIL	<0.00102	<0.00102	<0.00102	<0.00204	<0.00204	<1.02	<25.5	<25.5	<25.5	<25.5	<25.5
AH-2 HS @ 2'	04/13/21	2 FT	GRAB	SOIL	-	-	-	-	-	<1.02	-	-	-	-	-
AH-3 HN @ 1'	04/13/21	1 FT	GRAB	SOIL	<0.00102	0.00138	<0.00102	<0.00204	0.00138	<1.02	<25.5	35.6	35.6	<25.5	35.6
AH-3 HN @ 2'	04/13/21	2 FT	GRAB	SOIL	-	-	-	-	-	<1.02	-	-	-	-	-
AH-4 HW @ 1'	04/13/21	1 FT	GRAB	SOIL	<0.00101	<0.00101	<0.00101	<0.00202	<0.00202	<1.01	<25.3	<25.3	<25.3	<25.3	<25.3
AH-4 HW @ 2'	04/13/21	2 FT	GRAB	SOIL	-	-	-	-	-	<1.02	-	-	-	-	-
AH-1 HE @ 1'	04/13/21	1 FT	GRAB	SOIL	<0.00102	<0.00102	<0.00102	<0.00204	<0.00204	<1.02	<25.5	110	110	<25.5	110
AH-1 HE @ 2'	04/13/21	2 FT	GRAB	SOIL	-	-	-	-	-	<1.02	<25.5	<25.5	<25.5	<25.5	<25.5
CS-NW @ 6"	04/27/21	6 IN	COMP	SOIL	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	37	<25.3	32	32	72.6	104.6
CS-NW @ 1'	05/06/21	1 FT	COMP	SOIL	-	-	-	-	-	-	<25.5	<25.5	<25.5	<25.5	<25.5
CS-WW @ 2'	04/27/21	2 FT	COMP	SOIL	<0.00122	<0.00122	<0.00122	<0.00122	<0.00122	5.37	<30.5	<30.5	<30.5	<30.5	<30.5
CS-EW @ 2'	04/27/21	2 FT	COMP	SOIL	<0.00101	<0.00101	<0.00101	0.00689	0.00689	5.51	<25.3	143	143	<25.3	143
CS-EW @ 3'	05/06/21	3 FT	COMP	SOIL	-	-	-	-	-	-	<25.8	26.1	26.1	<25.8	26.1
BH-1 @ 1.5'	04/08/21	1.5 FT	COMP	SOIL	<0.00102	<0.00102	0.00157	<0.00102	0.00157	7.38	<25.5	<25.5	<25.5	<25.5	<25.5
BH-1 @ 1.5'	04/27/21	1.5 FT	COMP	SOIL	<0.00122	<0.00122	<0.00122	<0.00122	<0.00102	4.23	<30.5	<30.5	<30.5	<30.5	<30.5
NMOCD Recommended Remediation Action Level					10	-	-	-	**50**	**20,000**	-	-	**100**	-	**100**

Exceeds NMOCD Recommended RAL

Soils were permanently removed from ground and disposed off at landfill

FIGURES

Figure 1

Site Location Map

Plains Marketing L.P.

Thomas Station 4.10.21 Reportable Release

PP-21105

SRS: 2021-020

GPS: 32.2864, -103.7402

ULT I, Section 23, Township 23S, Range 31E

Eddy County, NM

DEAN

Figure 2

Topographic Map

Plains Marketing L.P

Thomas Station 4.10.21 Reportable Release

PP-21105

SRS: 2021-020

GPS: 32.2864, -103.7402

ULT I, Section 23, Township 23S, Range 31E

Eddy County, NM

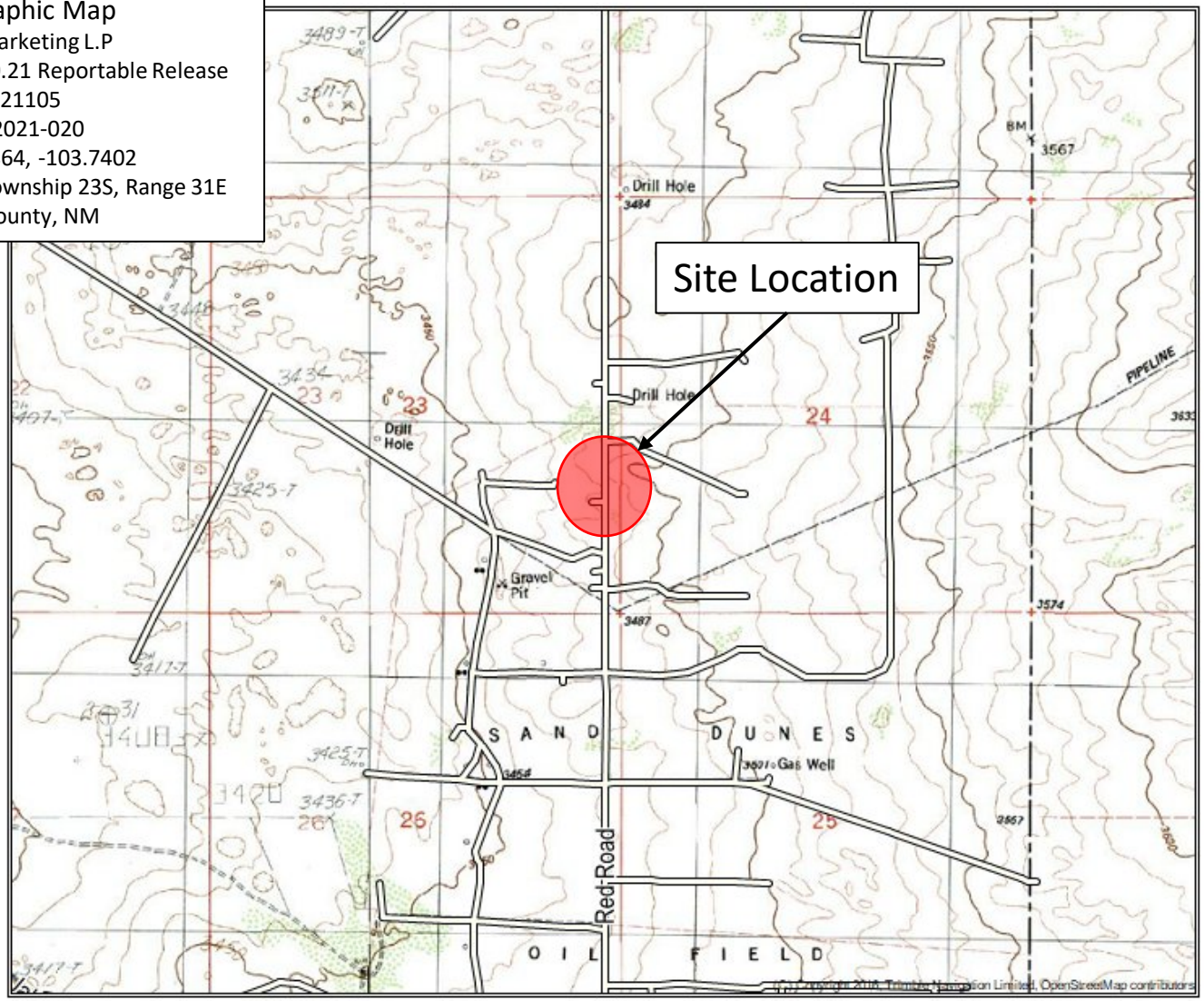


Figure 3

Karst Topography Map

Plains Marketing L.P

Thomas Station 4.10.21 Reportable Release

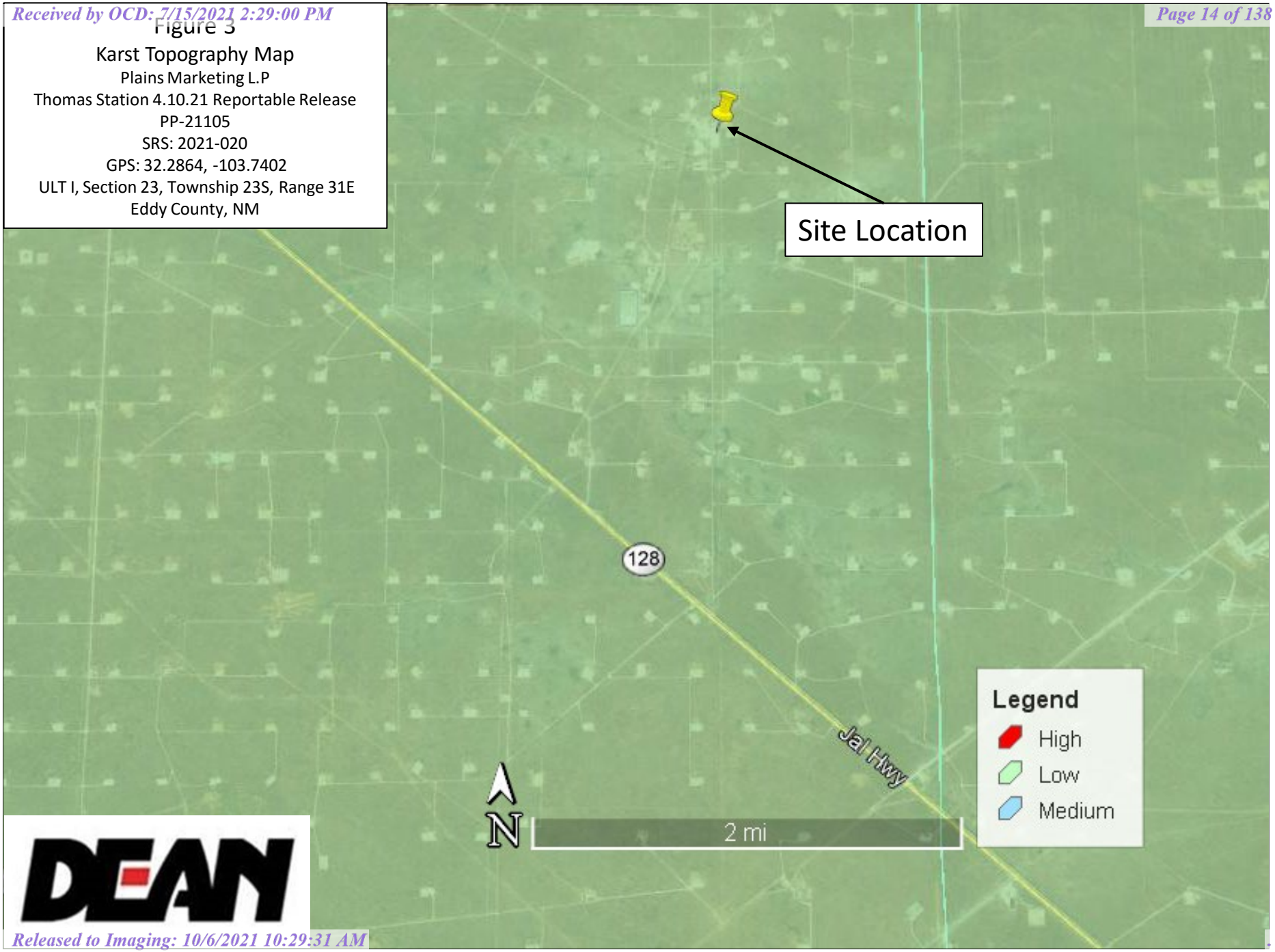
PP-21105

SRS: 2021-020

GPS: 32.2864, -103.7402

ULT I, Section 23, Township 23S, Range 31E

Eddy County, NM



DEAN

Figure 4

Delineation Soil Sample Location Map

Plains Marketing L.P

Thomas Station 4.10.21 Reportable Release

PP-21105

SRS: 2021-020

GPS: 32.2864, -103.7402

ULT I, Section 23, Township 23S, Range 31E

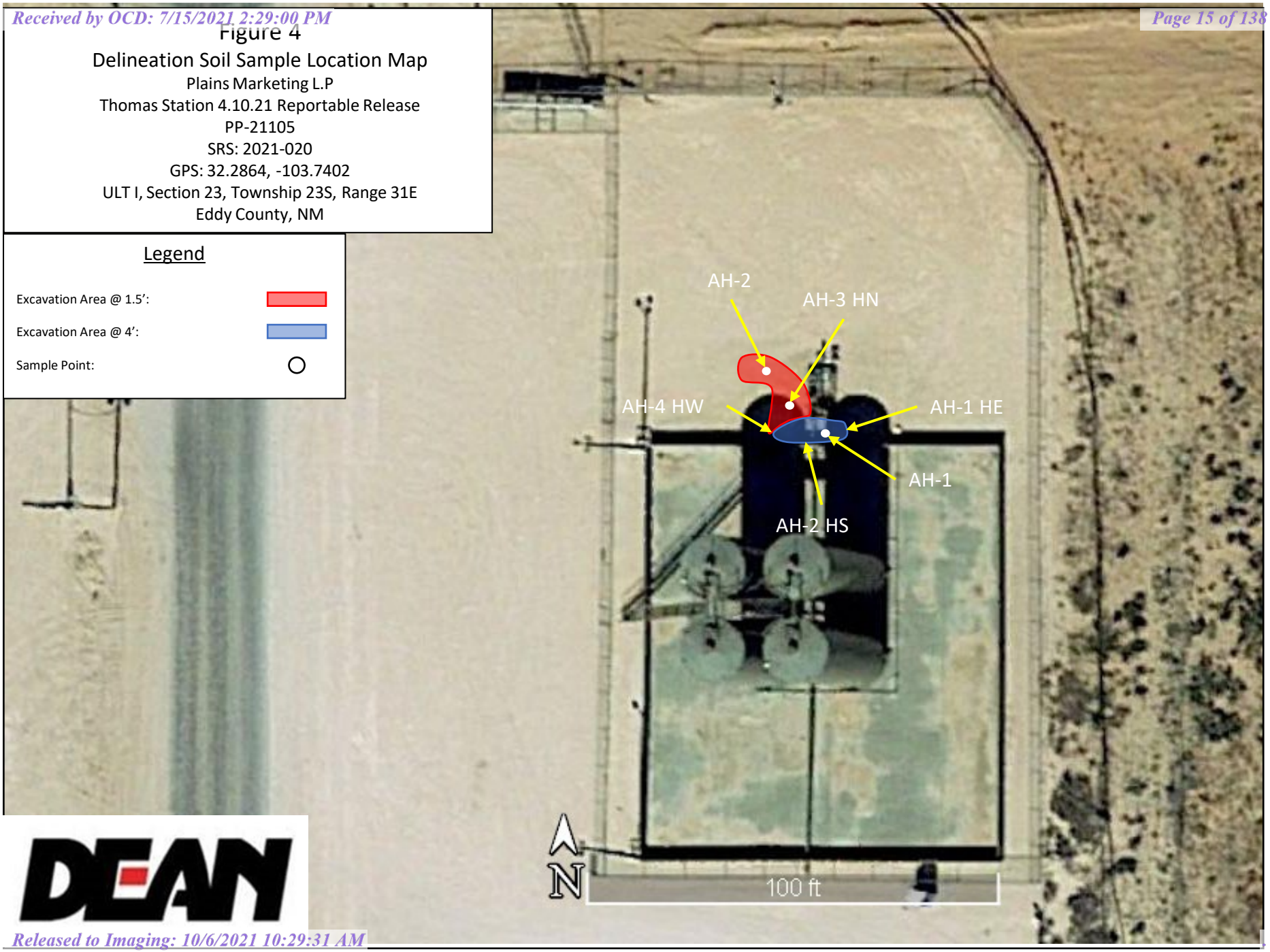
Eddy County, NM

Legend

Excavation Area @ 1.5':

Excavation Area @ 4':

Sample Point:



DEAN

Figure 5

Confirmation Soil Sample Location Map

Plains Marketing L.P

Thomas Station 4.10.21 Reportable Release

PP-21105

SRS: 2021-020

GPS: 32.2864, -103.7402

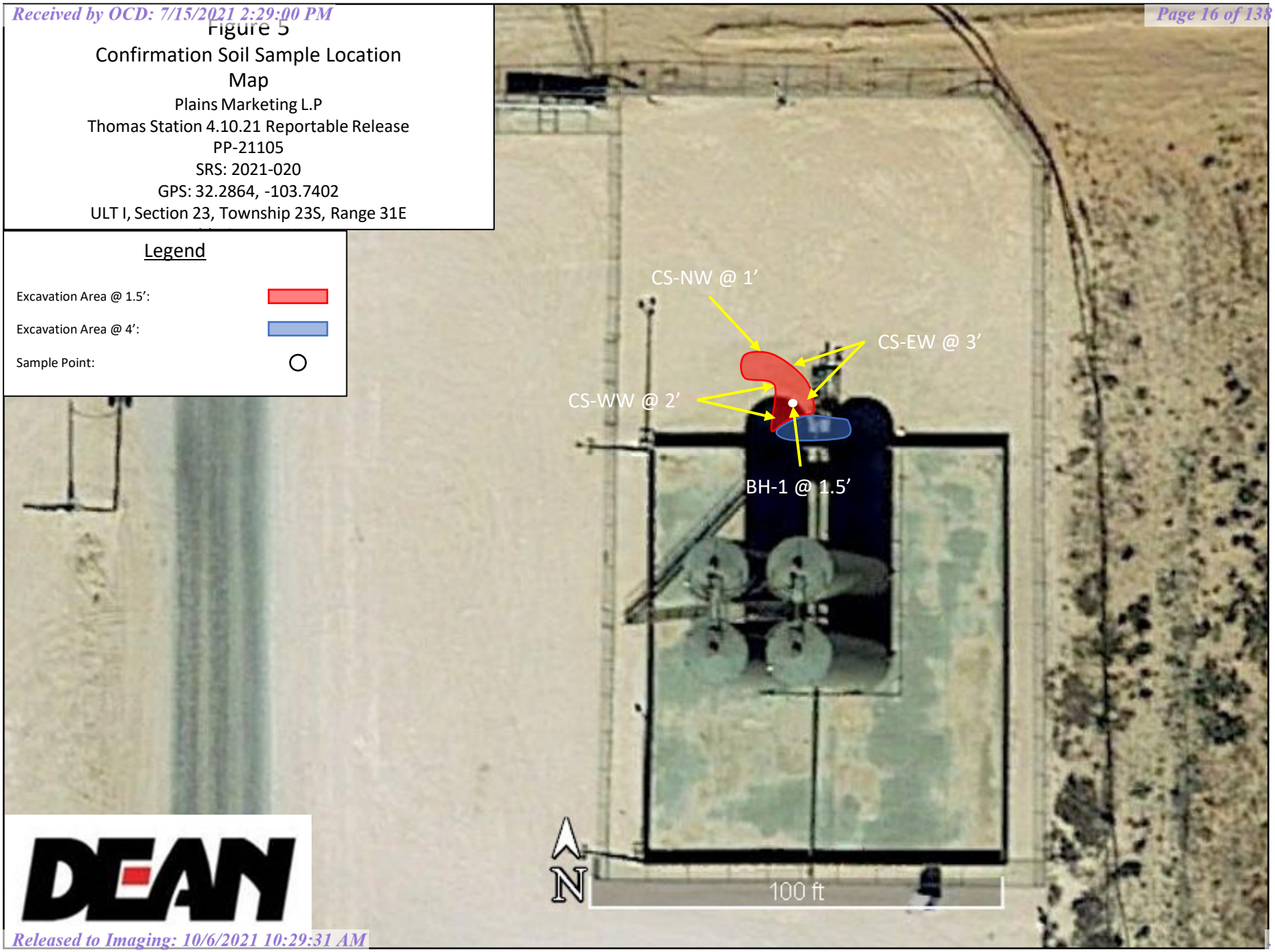
ULT I, Section 23, Township 23S, Range 31E

Legend

Excavation Area @ 1.5’:

Excavation Area @ 4’:

Sample Point:



DEAN

APPENDIX A
NMOCD C-141 FORM

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2110248840
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Plains Marketing, L.P.	OGRID 713291
Contact Name Amber Groves	Contact Telephone 575-200-5517
Contact email algroves@paalp.com	Incident # *(assigned by OCD)*
Contact mailing address 3112 W. US Hwy 82, Lovington, NM 88260	

Location of Release Source

Latitude 32.2865 Longitude -103.7413
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Plains Marketing Thomas Station	Site Type Sales LACT
Date Release Discovered 04/10/2021	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
I	23	23S	31E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 20 bbls	Volume Recovered (bbls) 14 bbls
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
Air eliminator failure on sales LACT caused oil to overflow the proving loop.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2110248840
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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.

Printed Name: Amber Groves Title: Remediation Coordinator

Signature: Amber Groves Date: 04/12/2021

email: algroves@paalp.com Telephone: (575)200-5517

OCD Only

Received by: Ramona Marcus Date: 5/7/2021

NAPP2110248840

Amber L Groves

From: Alan Swartz
Sent: Monday, April 12, 2021 3:05 PM
To: Amber L Groves
Subject: Thomas Station, Spill Calculation

Here is my calculation for the Thomas spill on 4/10.

8 x 11 x 15 x .0154 = 20.32

Alan Swartz
District Manager
Plains Marketing L.P.
Hobbs NM
Paswartz@paalp.com
Office: 575-393-5611
Cell: 580-339-3608

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 24006

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
PLAINS MARKETING L.P.	333 Clay St, Ste 1600	Houston, TX77002	34053	24006	C-141

OCD Reviewer	Condition
rmarcus	None

APPENDIX B
LABORATORY ANALYTICAL RESULTS

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Sylwia Reynolds

Dean

12600 W County Rd 91

Midland, TX 79707

Project: Plains-Thomas Station Release

Project Number: PP-21098

Location: Eddy County, NM

Lab Order Number: 1D12006

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704516-17-8

Report Date: 04/16/21

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21098	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 @ 1.5'	1D12006-01	Soil	04/08/21 12:35	04-09-2021 16:28

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21098	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

BH-1 @ 1.5'

1D12006-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P1D1410	04/14/21	04/14/21	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P1D1410	04/14/21	04/14/21	EPA 8021B	
Ethylbenzene	**0.00157**	0.00102	mg/kg dry	1	P1D1410	04/14/21	04/14/21	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P1D1410	04/14/21	04/14/21	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P1D1410	04/14/21	04/14/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P1D1410*	*04/14/21*	*04/14/21*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P1D1410*	*04/14/21*	*04/14/21*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7.38**	1.02	mg/kg dry	1	P1D1201	04/12/21	04/12/21	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P1D1309	04/13/21	04/13/21	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P1D1206	04/12/21	04/12/21	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P1D1206	04/12/21	04/12/21	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P1D1206	04/12/21	04/12/21	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.1 %*	*70-130*		*P1D1206*	*04/12/21*	*04/12/21*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P1D1206*	*04/12/21*	*04/12/21*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	04/12/21	04/12/21	calc	

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1410 - * DEFAULT PREP *** **										
Blank (P1D1410-BLK1)				Prepared & Analyzed: 04/14/21						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*99.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.118*		*"*	*0.120*		*98.1*	*80-120*			
LCS (P1D1410-BS1)				Prepared & Analyzed: 04/14/21						
Benzene	0.0988	0.00100	mg/kg wet	0.100		98.8	70-130			
Toluene	0.0982	0.00100	"	0.100		98.2	70-130			
Ethylbenzene	0.0999	0.00100	"	0.100		99.9	70-130			
Xylene (p/m)	0.192	0.00200	"	0.200		96.0	70-130			
Xylene (o)	0.0999	0.00100	"	0.100		99.9	70-130			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.115*		*"*	*0.120*		*95.7*	*80-120*			
LCS Dup (P1D1410-BSD1)				Prepared & Analyzed: 04/14/21						
Benzene	0.101	0.00100	mg/kg wet	0.100		101	70-130	2.16	20	
Toluene	0.101	0.00100	"	0.100		101	70-130	2.82	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130	3.70	20	
Xylene (p/m)	0.199	0.00200	"	0.200		99.3	70-130	3.34	20	
Xylene (o)	0.103	0.00100	"	0.100		103	70-130	3.31	20	
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*98.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Calibration Blank (P1D1410-CCB1)				Prepared & Analyzed: 04/14/21						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.112*		*"*	*0.120*		*93.1*	*80-120*			

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1410 - * DEFAULT PREP *** **										
Calibration Blank (P1D1410-CCB2)				Prepared & Analyzed: 04/14/21						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*98.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*100*	*80-120*			
Calibration Check (P1D1410-CCV1)				Prepared & Analyzed: 04/14/21						
Benzene	0.0933	0.00100	mg/kg wet	0.100		93.3	80-120			
Toluene	0.0997	0.00100	"	0.100		99.7	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.1	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*98.6*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*99.8*	*75-125*			
Calibration Check (P1D1410-CCV2)				Prepared & Analyzed: 04/14/21						
Benzene	0.0855	0.00100	mg/kg wet	0.100		85.5	80-120			
Toluene	0.0906	0.00100	"	0.100		90.6	80-120			
Ethylbenzene	0.0934	0.00100	"	0.100		93.4	80-120			
Xylene (p/m)	0.181	0.00200	"	0.200		90.3	80-120			
Xylene (o)	0.0935	0.00100	"	0.100		93.5	80-120			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*99.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.5*	*75-125*			
Calibration Check (P1D1410-CCV3)				Prepared: 04/14/21 Analyzed: 04/15/21						
Benzene	0.0894	0.00100	mg/kg wet	0.100		89.4	80-120			
Toluene	0.0931	0.00100	"	0.100		93.1	80-120			
Ethylbenzene	0.0942	0.00100	"	0.100		94.2	80-120			
Xylene (p/m)	0.180	0.00200	"	0.200		90.2	80-120			
Xylene (o)	0.0959	0.00100	"	0.100		95.9	80-120			
Surrogate: 4-Bromofluorobenzene	*0.116*		"	*0.120*		*96.6*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.5*	*75-125*			

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1410 - * DEFAULT PREP *** **										
Matrix Spike (P1D1410-MS1)	**Source: 1D12003-01**			Prepared: 04/14/21 Analyzed: 04/15/21						
Benzene	0.0535	0.00100	mg/kg dry	0.100	0.00172	51.8	80-120			QM-07
Toluene	0.0404	0.00100	"	0.100	0.00408	36.3	80-120			QM-07
Ethylbenzene	0.0181	0.00100	"	0.100	0.000510	17.6	80-120			QM-07
Xylene (p/m)	0.0441	0.00200	"	0.200	0.00160	21.2	80-120			QM-07
Xylene (o)	0.0140	0.00100	"	0.100	ND	14.0	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*99.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0849*		*"*	*0.120*		*70.7*	*80-120*			*S-GC*
Matrix Spike Dup (P1D1410-MSD1)	**Source: 1D12003-01**			Prepared: 04/14/21 Analyzed: 04/15/21						
Benzene	0.0591	0.00100	mg/kg dry	0.100	0.00172	57.4	80-120	10.2	20	QM-07
Toluene	0.0455	0.00100	"	0.100	0.00408	41.4	80-120	13.2	20	QM-07
Ethylbenzene	0.0212	0.00100	"	0.100	0.000510	20.7	80-120	16.2	20	QM-07
Xylene (p/m)	0.0522	0.00200	"	0.200	0.00160	25.3	80-120	17.5	20	QM-07
Xylene (o)	0.0156	0.00100	"	0.100	ND	15.6	80-120	11.1	20	QM-07
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0854*		*"*	*0.120*		*71.2*	*80-120*			*S-GC*

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1201 - * DEFAULT PREP *** **										
Blank (P1D1201-BLK1)				Prepared & Analyzed: 04/12/21						
Chloride	ND	1.00	mg/kg wet							
LCS (P1D1201-BS1)				Prepared & Analyzed: 04/12/21						
Chloride	397	1.00	mg/kg wet	400		99.3	90-110			
LCS Dup (P1D1201-BSD1)				Prepared & Analyzed: 04/12/21						
Chloride	397	1.00	mg/kg wet	400		99.4	90-110	0.101	20	
Calibration Check (P1D1201-CCV1)				Prepared & Analyzed: 04/12/21						
Chloride	19.6		mg/kg	20.0		97.9	90-110			
Calibration Check (P1D1201-CCV2)				Prepared & Analyzed: 04/12/21						
Chloride	19.8		mg/kg	20.0		99.2	90-110			
Calibration Check (P1D1201-CCV3)				Prepared & Analyzed: 04/12/21						
Chloride	20.0		mg/kg	20.0		99.9	90-110			
Matrix Spike (P1D1201-MS1)		**Source: 1D12001-01**		Prepared & Analyzed: 04/12/21						
Chloride	559	1.05	mg/kg dry	526	68.4	93.1	80-120			
Matrix Spike (P1D1201-MS2)		**Source: 1D12005-07**		Prepared & Analyzed: 04/12/21						
Chloride	771	1.03	mg/kg dry	515	297	92.0	80-120			
Matrix Spike Dup (P1D1201-MSD1)		**Source: 1D12001-01**		Prepared & Analyzed: 04/12/21						
Chloride	626	1.05	mg/kg dry	526	68.4	106	80-120	11.5	20	
Matrix Spike Dup (P1D1201-MSD2)		**Source: 1D12005-07**		Prepared & Analyzed: 04/12/21						
Chloride	770	1.03	mg/kg dry	515	297	91.7	80-120	0.206	20	

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1309 - * DEFAULT PREP *** **										
Blank (P1D1309-BLK1)				Prepared & Analyzed: 04/13/21						
% Moisture	ND	0.1	%							
Blank (P1D1309-BLK2)				Prepared & Analyzed: 04/13/21						
% Moisture	ND	0.1	%							
Duplicate (P1D1309-DUP1)		**Source: 1D12004-06**		Prepared & Analyzed: 04/13/21						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P1D1309-DUP2)		**Source: 1D12007-01**		Prepared & Analyzed: 04/13/21						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P1D1309-DUP3)		**Source: 1D12009-04**		Prepared & Analyzed: 04/13/21						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P1D1309-DUP4)		**Source: 1D12012-02**		Prepared & Analyzed: 04/13/21						
% Moisture	4.0	0.1	%		4.0			0.00	20	

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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1206 - TX 1005										
Blank (P1D1206-BLK1)				Prepared & Analyzed: 04/12/21						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*95.4*		"	*100*		*95.4*	*70-130*			
Surrogate: o-Terphenyl	*51.0*		"	*50.0*		*102*	*70-130*			
LCS (P1D1206-BS1)				Prepared & Analyzed: 04/12/21						
C6-C12	849	25.0	mg/kg wet	1000		84.9	75-125			
>C12-C28	813	25.0	"	1000		81.3	75-125			
Surrogate: 1-Chlorooctane	*98.9*		"	*100*		*98.9*	*70-130*			
Surrogate: o-Terphenyl	*53.6*		"	*50.0*		*107*	*70-130*			
LCS Dup (P1D1206-BSD1)				Prepared & Analyzed: 04/12/21						
C6-C12	859	25.0	mg/kg wet	1000		85.9	75-125	1.23	20	
>C12-C28	822	25.0	"	1000		82.2	75-125	1.10	20	
Surrogate: 1-Chlorooctane	*98.4*		"	*100*		*98.4*	*70-130*			
Surrogate: o-Terphenyl	*55.4*		"	*50.0*		*111*	*70-130*			
Calibration Check (P1D1206-CCV1)				Prepared & Analyzed: 04/12/21						
C6-C12	435	25.0	mg/kg wet	500		87.0	85-115			
>C12-C28	432	25.0	"	500		86.3	85-115			
Surrogate: 1-Chlorooctane	*115*		"	*100*		*115*	*70-130*			
Surrogate: o-Terphenyl	*52.2*		"	*50.0*		*104*	*70-130*			
Calibration Check (P1D1206-CCV2)				Prepared & Analyzed: 04/12/21						
C6-C12	441	25.0	mg/kg wet	500		88.2	85-115			
>C12-C28	448	25.0	"	500		89.6	85-115			
Surrogate: 1-Chlorooctane	*116*		"	*100*		*116*	*70-130*			
Surrogate: o-Terphenyl	*54.5*		"	*50.0*		*109*	*70-130*			

Dean	Project: Plains-Thomas Station Release	Fax:
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1206 - TX 1005										
Calibration Check (P1D1206-CCV3)				Prepared: 04/12/21 Analyzed: 04/13/21						
C6-C12	449	25.0	mg/kg wet	500		89.8	85-115			
>C12-C28	460	25.0	"	500		91.9	85-115			
Surrogate: 1-Chlorooctane	*108*		"	*100*		*108*	*70-130*			
Surrogate: o-Terphenyl	*51.4*		"	*50.0*		*103*	*70-130*			
Matrix Spike (P1D1206-MS1)		**Source: 1D12008-05**		Prepared: 04/12/21 Analyzed: 04/13/21						
C6-C12	886	26.3	mg/kg dry	1050	13.4	82.9	75-125			
>C12-C28	850	26.3	"	1050	15.4	79.3	75-125			
Surrogate: 1-Chlorooctane	*107*		"	*105*		*102*	*70-130*			
Surrogate: o-Terphenyl	*43.8*		"	*52.6*		*83.1*	*70-130*			
Matrix Spike Dup (P1D1206-MSD1)		**Source: 1D12008-05**		Prepared: 04/12/21 Analyzed: 04/13/21						
C6-C12	858	26.3	mg/kg dry	1050	13.4	80.2	75-125	3.31	20	
>C12-C28	858	26.3	"	1050	15.4	80.0	75-125	0.916	20	
Surrogate: 1-Chlorooctane	*130*		"	*105*		*124*	*70-130*			
Surrogate: o-Terphenyl	*45.5*		"	*52.6*		*86.4*	*70-130*			

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Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 4/16/2021

Brent Barron, Laboratory Director/Technical Director

Dean	Project:	Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number:	PP-21098	
Midland TX, 79707	Project Manager:	Sylwia Reynolds	

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylwia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920 Fax No:

Sampler Signature: ANGEL MEDINA

e-mail: sylwiareynolds@deandigs.com
jeffkindley@deandigs.com
kaylanlongee@deanequip.com
stevecasanova@deandigs.com

Project Name: PP-21098 THOMAS STATION RELEASE

Project #: PP-21098

Project Loc: EDDY COUNTY, NEW MEXICO

WORK ORDER #:

Report Format: X Standard ☐ TRRP ☐ NPDES

elizabethstuart@deandigs.com
algroves@paalp.com

(lab use only)
ORDER #: 1D17006

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3 250ml Poly	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None 1L Poly	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)				7 Day TAT	24 hour TAT
1	BH-1 @ 1.5'	1.5 FT	1.5 FT	04/08/21	12:35 PM		1	X								SOIL				X		X							X				X	

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
ANGEL MEDINA	04.08.2021	5:30 PM		04.09.2021	3:43 PM
	Date	Time	Received by:	Date	Time
	04.09.21	4:38PM			
Relinquished by:	Date	Time	Received by:	Date	Time
				4.9.20	1628

Laboratory Comments:

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

5.0 + 1.0 6.0 CFU

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Revised Analytical Report

Prepared for:

Sylwia Reynolds

Dean

12600 W County Rd 91

Midland, TX 79707

Project: Plains-Thomas Station Release

Project Number: PP-21105

Location: Eddy County, NM

Lab Order Number: 1D14012

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 04/28/21

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 @ 5'	1D14012-01	Soil	04/13/21 09:27	04-14-2021 14:05
AH-1 @ 7'	1D14012-02	Soil	04/13/21 09:33	04-14-2021 14:05
AH-1 @ 9'	1D14012-03	Soil	04/13/21 09:41	04-14-2021 14:05
AH-1 @ 11'	1D14012-04	Soil	04/13/21 09:57	04-14-2021 14:05
AH-1 @ 13'	1D14012-05	Soil	04/13/21 10:03	04-14-2021 14:05
AH-2 @ 2'	1D14012-07	Soil	04/13/21 13:30	04-14-2021 14:05
AH-2 @ 3'	1D14012-08	Soil	04/13/21 13:35	04-14-2021 14:05
AH-2 HS @ 1'	1D14012-10	Soil	04/13/21 10:42	04-14-2021 14:05
AH-2 HS @ 2'	1D14012-11	Soil	04/13/21 10:45	04-14-2021 14:05
AH-3 HN @ 1'	1D14012-13	Soil	04/13/21 13:00	04-14-2021 14:05
AH-3 HN @ 2'	1D14012-14	Soil	04/13/21 13:05	04-14-2021 14:05
AH-4 HW @ 1'	1D14012-16	Soil	04/13/21 13:15	04-14-2021 14:05
AH-4 HW @ 2'	1D14012-17	Soil	04/13/21 13:20	04-14-2021 14:05
AH-1 HE @ 1'	1D14012-18	Soil	04/13/21 10:05	04-14-2021 14:05
AH-1 HE @ 2'	1D14012-19	Soil	04/13/21 10:07	04-14-2021 14:05

Per Client request on 4-26-21 additional TPH analysis were added to this project. The revised report is attached below.

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-1 @ 5'

1D14012-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	**6.44**	0.532	mg/kg dry	500	P1D1602	04/16/21 09:21	04/16/21 20:38	EPA 8021B	
Toluene	**80.3**	0.532	mg/kg dry	500	P1D1602	04/16/21 09:21	04/16/21 20:38	EPA 8021B	
Ethylbenzene	**45.9**	0.532	mg/kg dry	500	P1D1602	04/16/21 09:21	04/16/21 20:38	EPA 8021B	
Xylene (p/m)	**118**	1.06	mg/kg dry	500	P1D1602	04/16/21 09:21	04/16/21 20:38	EPA 8021B	
Xylene (o)	**41.5**	0.532	mg/kg dry	500	P1D1602	04/16/21 09:21	04/16/21 20:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.9 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/16/21 20:38*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.1 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/16/21 20:38*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7.60**	1.06	mg/kg dry	1	P1D1603	04/16/21 14:24	04/16/21 17:16	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**4530**	532	mg/kg dry	20	P1D1504	04/15/21 11:35	04/18/21 04:23	TPH 8015M	
>C12-C28	**8550**	532	mg/kg dry	20	P1D1504	04/15/21 11:35	04/18/21 04:23	TPH 8015M	
>C28-C35	**1410**	532	mg/kg dry	20	P1D1504	04/15/21 11:35	04/18/21 04:23	TPH 8015M	
Surrogate: 1-Chlorooctane		*130 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/18/21 04:23*	*TPH 8015M*	
Surrogate: o-Terphenyl		*123 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/18/21 04:23*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**14500**	532	mg/kg dry	20	[CALC]	04/15/21 11:35	04/18/21 04:23	calc	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-1 @ 7'

1D14012-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**38.2**	1.08	mg/kg dry	1000	P1D1602	04/16/21 09:21	04/19/21 13:02	EPA 8021B	
Toluene	**278**	1.08	mg/kg dry	1000	P1D1602	04/16/21 09:21	04/19/21 13:02	EPA 8021B	
Ethylbenzene	**111**	1.08	mg/kg dry	1000	P1D1602	04/16/21 09:21	04/19/21 13:02	EPA 8021B	
Xylene (p/m)	**312**	2.15	mg/kg dry	1000	P1D1602	04/16/21 09:21	04/19/21 13:02	EPA 8021B	
Xylene (o)	**96.9**	1.08	mg/kg dry	1000	P1D1602	04/16/21 09:21	04/19/21 13:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.5 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/19/21 13:02*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*91.0 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/19/21 13:02*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3.44**	1.08	mg/kg dry	1	P1D2109	04/21/21 16:37	04/22/21 13:07	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**10200**	538	mg/kg dry	20	P1D1504	04/15/21 11:35	04/18/21 04:46	TPH 8015M	
>C12-C28	**14800**	538	mg/kg dry	20	P1D1504	04/15/21 11:35	04/18/21 04:46	TPH 8015M	
>C28-C35	**2420**	538	mg/kg dry	20	P1D1504	04/15/21 11:35	04/18/21 04:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*169 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/18/21 04:46*	*TPH 8015M*	*S-GC*
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/18/21 04:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**27500**	538	mg/kg dry	20	[CALC]	04/15/21 11:35	04/18/21 04:46	calc	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-1 @ 9'

1D14012-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	**48.7**	5.32	mg/kg dry	5000	P1D1602	04/16/21 09:21	04/20/21 03:48	EPA 8021B	
Toluene	**422**	5.32	mg/kg dry	5000	P1D1602	04/16/21 09:21	04/20/21 03:48	EPA 8021B	
Ethylbenzene	**207**	5.32	mg/kg dry	5000	P1D1602	04/16/21 09:21	04/20/21 03:48	EPA 8021B	
Xylene (p/m)	**563**	10.6	mg/kg dry	5000	P1D1602	04/16/21 09:21	04/20/21 03:48	EPA 8021B	
Xylene (o)	**181**	5.32	mg/kg dry	5000	P1D1602	04/16/21 09:21	04/20/21 03:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/20/21 03:48*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/20/21 03:48*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**6.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**12700**	532	mg/kg dry	20	P1D1504	04/15/21 11:35	04/19/21 09:39	TPH 8015M	
>C12-C28	**19500**	532	mg/kg dry	20	P1D1504	04/15/21 11:35	04/19/21 09:39	TPH 8015M	
>C28-C35	**3710**	532	mg/kg dry	20	P1D1504	04/15/21 11:35	04/19/21 09:39	TPH 8015M	
Surrogate: 1-Chlorooctane		*194 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/19/21 09:39*	*TPH 8015M*	*S-GC1*
Surrogate: o-Terphenyl		*144 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/19/21 09:39*	*TPH 8015M*	*S-GC1*
Total Petroleum Hydrocarbon C6-C35	**35900**	532	mg/kg dry	20	[CALC]	04/15/21 11:35	04/19/21 09:39	calc	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-1 @ 11'

1D14012-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.123**	0.104	mg/kg dry	100	P1D1602	04/16/21 09:21	04/19/21 12:42	EPA 8021B	
Toluene	**1.88**	0.104	mg/kg dry	100	P1D1602	04/16/21 09:21	04/19/21 12:42	EPA 8021B	
Ethylbenzene	**1.77**	0.104	mg/kg dry	100	P1D1602	04/16/21 09:21	04/19/21 12:42	EPA 8021B	
Xylene (p/m)	**6.58**	0.208	mg/kg dry	100	P1D1602	04/16/21 09:21	04/19/21 12:42	EPA 8021B	
Xylene (o)	**2.17**	0.104	mg/kg dry	100	P1D1602	04/16/21 09:21	04/19/21 12:42	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*107 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/19/21 12:42*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/19/21 12:42*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**4.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**716**	130	mg/kg dry	5	P1D1504	04/15/21 11:35	04/18/21 06:21	TPH 8015M	
>C12-C28	**2670**	130	mg/kg dry	5	P1D1504	04/15/21 11:35	04/18/21 06:21	TPH 8015M	
>C28-C35	**398**	130	mg/kg dry	5	P1D1504	04/15/21 11:35	04/18/21 06:21	TPH 8015M	
Surrogate: 1-Chlorooctane		*120 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/18/21 06:21*	*TPH 8015M*	
Surrogate: o-Terphenyl		*132 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/18/21 06:21*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**3780**	130	mg/kg dry	5	[CALC]	04/15/21 11:35	04/18/21 06:21	calc	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-1 @ 13'

1D14012-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**11.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**184**	28.1	mg/kg dry	1	P1D1504	04/15/21 11:35	04/18/21 06:45	TPH 8015M	
>C12-C28	**1060**	28.1	mg/kg dry	1	P1D1504	04/15/21 11:35	04/18/21 06:45	TPH 8015M	
>C28-C35	**169**	28.1	mg/kg dry	1	P1D1504	04/15/21 11:35	04/18/21 06:45	TPH 8015M	
Surrogate: 1-Chlorooctane		*127 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/18/21 06:45*	*TPH 8015M*	
Surrogate: o-Terphenyl		*143 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/18/21 06:45*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**1410**	28.1	mg/kg dry	1	[CALC]	04/15/21 11:35	04/18/21 06:45	calc	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-2 @ 2'

1D14012-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.00101**	0.00101	mg/kg dry	1	P1D1602	04/16/21 09:21	04/17/21 04:31	EPA 8021B	
Toluene	**0.00368**	0.00101	mg/kg dry	1	P1D1602	04/16/21 09:21	04/17/21 04:31	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P1D1602	04/16/21 09:21	04/17/21 04:31	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P1D1602	04/16/21 09:21	04/17/21 04:31	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P1D1602	04/16/21 09:21	04/17/21 04:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/17/21 04:31*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*105 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/17/21 04:31*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.01	mg/kg dry	1	P1D1603	04/16/21 14:24	04/16/21 17:32	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P1D1504	04/15/21 11:35	04/18/21 07:32	TPH 8015M	
>C12-C28	**33.4**	25.3	mg/kg dry	1	P1D1504	04/15/21 11:35	04/18/21 07:32	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P1D1504	04/15/21 11:35	04/18/21 07:32	TPH 8015M	
Surrogate: 1-Chlorooctane		*122 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/18/21 07:32*	*TPH 8015M*	
Surrogate: o-Terphenyl		*132 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/18/21 07:32*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**33.4**	25.3	mg/kg dry	1	[CALC]	04/15/21 11:35	04/18/21 07:32	calc	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-2 @ 3'

1D14012-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.02	mg/kg dry	1	P1D2109	04/21/21 16:37	04/22/21 13:23	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-2 HS @ 1'

1D14012-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 16:13	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 16:13	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 16:13	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 16:13	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 16:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.5 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/16/21 16:13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.6 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/16/21 16:13*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.02	mg/kg dry	1	P1D1603	04/16/21 14:24	04/16/21 17:48	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P1D1504	04/15/21 11:35	04/18/21 08:44	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P1D1504	04/15/21 11:35	04/18/21 08:44	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P1D1504	04/15/21 11:35	04/18/21 08:44	TPH 8015M	
Surrogate: 1-Chlorooctane		*119 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/18/21 08:44*	*TPH 8015M*	
Surrogate: o-Terphenyl		*130 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/18/21 08:44*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	04/15/21 11:35	04/18/21 08:44	calc	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-2 HS @ 2'

1D14012-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.02	mg/kg dry	1	P1D2109	04/21/21 16:37	04/22/21 13:39	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-3 HN @ 1'

1D14012-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 17:14	EPA 8021B	
Toluene	**0.00138**	0.00102	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 17:14	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 17:14	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 17:14	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 17:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/16/21 17:14*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.5 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/16/21 17:14*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.02	mg/kg dry	1	P1D1603	04/16/21 14:24	04/16/21 18:04	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P1D1504	04/15/21 11:35	04/18/21 09:55	TPH 8015M	
>C12-C28	**35.6**	25.5	mg/kg dry	1	P1D1504	04/15/21 11:35	04/18/21 09:55	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P1D1504	04/15/21 11:35	04/18/21 09:55	TPH 8015M	
Surrogate: 1-Chlorooctane		*120 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/18/21 09:55*	*TPH 8015M*	
Surrogate: o-Terphenyl		*131 %*	*70-130*		*P1D1504*	*04/15/21 11:35*	*04/18/21 09:55*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**35.6**	25.5	mg/kg dry	1	[CALC]	04/15/21 11:35	04/18/21 09:55	calc	

Dean	Project: Plains-Thomas Station Release	Fax:
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Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-3 HN @ 2'

1D14012-14 (Soil)

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	ND	1.02	mg/kg dry	1	P1D2109	04/21/21 16:37	04/22/21 13:55	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-4 HW @ 1'

1D14012-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 18:55	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 18:55	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 18:55	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 18:55	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 18:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*105 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/16/21 18:55*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/16/21 18:55*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.01	mg/kg dry	1	P1D1603	04/16/21 14:24	04/16/21 18:21	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P1D1503	04/15/21 13:40	04/15/21 20:30	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P1D1503	04/15/21 13:40	04/15/21 20:30	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P1D1503	04/15/21 13:40	04/15/21 20:30	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.6 %*	*70-130*		*P1D1503*	*04/15/21 13:40*	*04/15/21 20:30*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.3 %*	*70-130*		*P1D1503*	*04/15/21 13:40*	*04/15/21 20:30*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/15/21 13:40	04/15/21 20:30	calc	

Dean	Project: Plains-Thomas Station Release	Fax:
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Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-4 HW @ 2'

1D14012-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.02	mg/kg dry	1	P1D2109	04/21/21 16:37	04/22/21 14:12	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-1 HE @ 1'

1D14012-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 19:36	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 19:36	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 19:36	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 19:36	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P1D1602	04/16/21 09:21	04/16/21 19:36	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/16/21 19:36*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P1D1602*	*04/16/21 09:21*	*04/16/21 19:36*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.02	mg/kg dry	1	P1D1603	04/16/21 14:24	04/16/21 18:37	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P1D1503	04/15/21 13:40	04/15/21 22:01	TPH 8015M	
>C12-C28	**110**	25.5	mg/kg dry	1	P1D1503	04/15/21 13:40	04/15/21 22:01	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P1D1503	04/15/21 13:40	04/15/21 22:01	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.7 %*	*70-130*		*P1D1503*	*04/15/21 13:40*	*04/15/21 22:01*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.7 %*	*70-130*		*P1D1503*	*04/15/21 13:40*	*04/15/21 22:01*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**110**	25.5	mg/kg dry	1	[CALC]	04/15/21 13:40	04/15/21 22:01	calc	

Dean	Project: Plains-Thomas Station Release	Fax:
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Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-1 HE @ 2'

1D14012-19 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.02	mg/kg dry	1	P1D2109	04/21/21 16:37	04/22/21 14:28	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P1D1503	04/15/21 13:40	04/15/21 22:25	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P1D1503	04/15/21 13:40	04/15/21 22:25	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P1D1503	04/15/21 13:40	04/15/21 22:25	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.4 %*	*70-130*		*P1D1503*	*04/15/21 13:40*	*04/15/21 22:25*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.3 %*	*70-130*		*P1D1503*	*04/15/21 13:40*	*04/15/21 22:25*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	04/15/21 13:40	04/15/21 22:25	calc	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1602 - * DEFAULT PREP *** **										
Blank (P1D1602-BLK1)				Prepared & Analyzed: 04/16/21						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.115*		*"*	*0.120*		*96.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.1*	*80-120*			
LCS (P1D1602-BS1)				Prepared & Analyzed: 04/16/21						
Benzene	0.0990	0.00100	mg/kg wet	0.100		99.0	70-130			
Toluene	0.102	0.00100	"	0.100		102	70-130			
Ethylbenzene	0.102	0.00100	"	0.100		102	70-130			
Xylene (p/m)	0.200	0.00200	"	0.200		100	70-130			
Xylene (o)	0.0975	0.00100	"	0.100		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*98.9*	*80-120*			
LCS Dup (P1D1602-BSD1)				Prepared & Analyzed: 04/16/21						
Benzene	0.0868	0.00100	mg/kg wet	0.100		86.8	70-130	13.1	20	
Toluene	0.0905	0.00100	"	0.100		90.5	70-130	11.9	20	
Ethylbenzene	0.0917	0.00100	"	0.100		91.7	70-130	10.5	20	
Xylene (p/m)	0.182	0.00200	"	0.200		90.8	70-130	9.80	20	
Xylene (o)	0.0873	0.00100	"	0.100		87.3	70-130	11.1	20	
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.7*	*80-120*			
Calibration Blank (P1D1602-CCB1)				Prepared & Analyzed: 04/16/21						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*99.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			

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12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1602 - * DEFAULT PREP *** **										
Calibration Blank (P1D1602-CCB2)				Prepared: 04/16/21 Analyzed: 04/17/21						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.120*		*104*	*80-120*			
Calibration Check (P1D1602-CCV1)				Prepared & Analyzed: 04/16/21						
Benzene	0.0830	0.00100	mg/kg wet	0.100		83.0	80-120			
Toluene	0.0926	0.00100	"	0.100		92.6	80-120			
Ethylbenzene	0.0968	0.00100	"	0.100		96.8	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.4	80-120			
Xylene (o)	0.0946	0.00100	"	0.100		94.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*102*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.120*		*101*	*75-125*			
Calibration Check (P1D1602-CCV2)				Prepared & Analyzed: 04/16/21						
Benzene	0.0898	0.00100	mg/kg wet	0.100		89.8	80-120			
Toluene	0.0964	0.00100	"	0.100		96.4	80-120			
Ethylbenzene	0.0985	0.00100	"	0.100		98.5	80-120			
Xylene (p/m)	0.197	0.00200	"	0.200		98.4	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*102*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*103*	*75-125*			
Calibration Check (P1D1602-CCV3)				Prepared: 04/16/21 Analyzed: 04/17/21						
Benzene	0.0843	0.00100	mg/kg wet	0.100		84.3	80-120			
Toluene	0.0916	0.00100	"	0.100		91.6	80-120			
Ethylbenzene	0.0937	0.00100	"	0.100		93.7	80-120			
Xylene (p/m)	0.186	0.00200	"	0.200		93.0	80-120			
Xylene (o)	0.0968	0.00100	"	0.100		96.8	80-120			
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*102*	*75-125*			

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Midland TX, 79707	Project Manager: Sylwia Reynolds	

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1602 - * DEFAULT PREP *** **										
Matrix Spike (P1D1602-MS1)	**Source: 1D14012-20**			Prepared & Analyzed: 04/16/21						
Benzene	0.0929	0.00102	mg/kg dry	0.102	ND	91.0	80-120			
Toluene	0.0907	0.00102	"	0.102	ND	88.9	80-120			
Ethylbenzene	0.0879	0.00102	"	0.102	ND	86.1	80-120			
Xylene (p/m)	0.172	0.00204	"	0.204	ND	84.5	80-120			
Xylene (o)	0.0877	0.00102	"	0.102	ND	85.9	80-120			
Surrogate: 1,4-Difluorobenzene	*0.128*		*"*	*0.122*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.122*		*103*	*80-120*			
Matrix Spike Dup (P1D1602-MSD1)	**Source: 1D14012-20**			Prepared & Analyzed: 04/16/21						
Benzene	0.0882	0.00102	mg/kg dry	0.102	ND	86.4	80-120	5.18	20	
Toluene	0.0869	0.00102	"	0.102	ND	85.1	80-120	4.33	20	
Ethylbenzene	0.0837	0.00102	"	0.102	ND	82.0	80-120	4.88	20	
Xylene (p/m)	0.165	0.00204	"	0.204	ND	80.8	80-120	4.48	20	
Xylene (o)	0.0837	0.00102	"	0.102	ND	82.0	80-120	4.68	20	
Surrogate: 1,4-Difluorobenzene	*0.124*		*"*	*0.122*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.121*		*"*	*0.122*		*99.2*	*80-120*			

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1505 - * DEFAULT PREP *** **										
Blank (P1D1505-BLK1)				Prepared & Analyzed: 04/15/21						
% Moisture	ND	0.1	%							
Blank (P1D1505-BLK2)				Prepared & Analyzed: 04/15/21						
% Moisture	ND	0.1	%							
Blank (P1D1505-BLK3)				Prepared & Analyzed: 04/15/21						
% Moisture	ND	0.1	%							
Blank (P1D1505-BLK4)				Prepared & Analyzed: 04/15/21						
% Moisture	ND	0.1	%							
Blank (P1D1505-BLK5)				Prepared & Analyzed: 04/15/21						
% Moisture	ND	0.1	%							
Blank (P1D1505-BLK6)				Prepared & Analyzed: 04/15/21						
% Moisture	ND	0.1	%							
Blank (P1D1505-BLK7)				Prepared & Analyzed: 04/15/21						
% Moisture	ND	0.1	%							
Duplicate (P1D1505-DUP1)		**Source: 1D14001-05**		Prepared & Analyzed: 04/15/21						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P1D1505-DUP2)		**Source: 1D14001-15**		Prepared & Analyzed: 04/15/21						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P1D1505-DUP3)		**Source: 1D13013-01**		Prepared & Analyzed: 04/15/21						
% Moisture	1.0	0.1	%		1.0			0.00	20	

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1505 - * DEFAULT PREP *** **										
Duplicate (P1D1505-DUP4)		**Source: 1D13015-02**		Prepared & Analyzed: 04/15/21						
% Moisture	4.0	0.1	%		3.0			28.6	20	R3
Duplicate (P1D1505-DUP7)		**Source: 1D13016-01**		Prepared & Analyzed: 04/15/21						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P1D1505-DUP8)		**Source: 1D14001-01**		Prepared & Analyzed: 04/15/21						
% Moisture	7.0	0.1	%		3.0			80.0	20	R3
Duplicate (P1D1505-DUP9)		**Source: 1D14005-06**		Prepared & Analyzed: 04/15/21						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P1D1505-DUPA)		**Source: 1D14008-01**		Prepared & Analyzed: 04/15/21						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P1D1505-DUPB)		**Source: 1D14012-04**		Prepared & Analyzed: 04/15/21						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P1D1505-DUPC)		**Source: 1D14012-14**		Prepared & Analyzed: 04/15/21						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Batch P1D1603 - * DEFAULT PREP *** **										
Blank (P1D1603-BLK1)				Prepared & Analyzed: 04/16/21						
Chloride	ND	1.00	mg/kg wet							
LCS (P1D1603-BS1)				Prepared & Analyzed: 04/16/21						
Chloride	383	1.00	mg/kg wet	400		95.8	90-110			

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1603 - * DEFAULT PREP *** **										
LCS Dup (P1D1603-BSD1)				Prepared & Analyzed: 04/16/21						
Chloride	387	1.00	mg/kg wet	400		96.8	90-110	0.950	20	
Calibration Check (P1D1603-CCV1)				Prepared & Analyzed: 04/16/21						
Chloride	18.7		mg/kg	20.0		93.4	90-110			
Calibration Check (P1D1603-CCV2)				Prepared & Analyzed: 04/16/21						
Chloride	18.1		mg/kg	20.0		90.7	90-110			
Calibration Check (P1D1603-CCV3)				Prepared & Analyzed: 04/16/21						
Chloride	18.5		mg/kg	20.0		92.4	90-110			
Matrix Spike (P1D1603-MS1)		**Source: 1D14010-07**		Prepared & Analyzed: 04/16/21						
Chloride	1330	1.25	mg/kg dry	625	929	64.7	80-120			QM-05
Matrix Spike (P1D1603-MS2)		**Source: 1D15002-01**		Prepared & Analyzed: 04/16/21						
Chloride	15900	58.1	mg/kg dry	5810	10500	91.8	80-120			
Matrix Spike Dup (P1D1603-MSD1)		**Source: 1D14010-07**		Prepared & Analyzed: 04/16/21						
Chloride	1400	1.25	mg/kg dry	625	929	74.9	80-120	4.70	20	QM-05
Matrix Spike Dup (P1D1603-MSD2)		**Source: 1D15002-01**		Prepared & Analyzed: 04/16/21						
Chloride	15900	58.1	mg/kg dry	5810	10500	92.1	80-120	0.103	20	
Batch P1D2109 - * DEFAULT PREP *** **										
Blank (P1D2109-BLK1)				Prepared: 04/21/21 Analyzed: 04/22/21						
Chloride	ND	1.00	mg/kg wet							

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D2109 - * DEFAULT PREP *** **										
LCS (P1D2109-BS1)				Prepared: 04/21/21 Analyzed: 04/22/21						
Chloride	438	1.00	mg/kg wet	400		110	90-110			
LCS Dup (P1D2109-BSD1)				Prepared: 04/21/21 Analyzed: 04/22/21						
Chloride	412	1.00	mg/kg wet	400		103	90-110	6.26	20	
Calibration Check (P1D2109-CCV1)				Prepared: 04/21/21 Analyzed: 04/22/21						
Chloride	21.3		mg/kg	20.0		106	90-110			
Calibration Check (P1D2109-CCV2)				Prepared: 04/21/21 Analyzed: 04/22/21						
Chloride	21.4		mg/kg	20.0		107	90-110			
Calibration Check (P1D2109-CCV3)				Prepared: 04/21/21 Analyzed: 04/22/21						
Chloride	20.8		mg/kg	20.0		104	90-110			
Matrix Spike (P1D2109-MS1)		**Source: 1D21002-03**		Prepared: 04/21/21 Analyzed: 04/22/21						
Chloride	571	1.27	mg/kg dry	633	ND	90.3	80-120			
Matrix Spike (P1D2109-MS2)		**Source: 1D20010-02**		Prepared: 04/21/21 Analyzed: 04/22/21						
Chloride	2550	5.75	mg/kg dry	575	2030	89.5	80-120			
Matrix Spike Dup (P1D2109-MSD1)		**Source: 1D21002-03**		Prepared: 04/21/21 Analyzed: 04/22/21						
Chloride	633	1.27	mg/kg dry	633	ND	100	80-120	10.2	20	
Matrix Spike Dup (P1D2109-MSD2)		**Source: 1D20010-02**		Prepared: 04/21/21 Analyzed: 04/22/21						
Chloride	2570	5.75	mg/kg dry	575	2030	94.3	80-120	1.07	20	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1503 - TX 1005										
Blank (P1D1503-BLK1)				Prepared & Analyzed: 04/15/21						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*94.2*		"	*100*		*94.2*	*70-130*			
Surrogate: o-Terphenyl	*50.4*		"	*50.0*		*101*	*70-130*			
LCS (P1D1503-BS1)				Prepared & Analyzed: 04/15/21						
C6-C12	928	25.0	mg/kg wet	1000		92.8	75-125			
>C12-C28	868	25.0	"	1000		86.8	75-125			
Surrogate: 1-Chlorooctane	*94.6*		"	*100*		*94.6*	*70-130*			
Surrogate: o-Terphenyl	*49.1*		"	*50.0*		*98.1*	*70-130*			
LCS Dup (P1D1503-BSD1)				Prepared & Analyzed: 04/15/21						
C6-C12	919	25.0	mg/kg wet	1000		91.9	75-125	0.908	20	
>C12-C28	846	25.0	"	1000		84.6	75-125	2.58	20	
Surrogate: 1-Chlorooctane	*94.3*		"	*100*		*94.3*	*70-130*			
Surrogate: o-Terphenyl	*49.2*		"	*50.0*		*98.3*	*70-130*			
Calibration Check (P1D1503-CCV1)				Prepared & Analyzed: 04/15/21						
C6-C12	463	25.0	mg/kg wet	500		92.5	85-115			
>C12-C28	458	25.0	"	500		91.5	85-115			
Surrogate: 1-Chlorooctane	*90.7*		"	*100*		*90.7*	*70-130*			
Surrogate: o-Terphenyl	*48.5*		"	*50.0*		*97.0*	*70-130*			
Calibration Check (P1D1503-CCV2)				Prepared & Analyzed: 04/15/21						
C6-C12	433	25.0	mg/kg wet	500		86.5	85-115			
>C12-C28	427	25.0	"	500		85.3	85-115			
Surrogate: 1-Chlorooctane	*83.3*		"	*100*		*83.3*	*70-130*			
Surrogate: o-Terphenyl	*44.8*		"	*50.0*		*89.6*	*70-130*			

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1503 - TX 1005										
Matrix Spike (P1D1503-MS1)	**Source: 1D15001-05**			Prepared & Analyzed: 04/15/21						
C6-C12	958	28.1	mg/kg dry	1120	ND	85.2	75-125			
>C12-C28	896	28.1	"	1120	18.2	78.1	75-125			
Surrogate: 1-Chlorooctane	*93.9*		*"*	*112*		*83.5*	*70-130*			
Surrogate: o-Terphenyl	*52.1*		*"*	*56.2*		*92.7*	*70-130*			
Matrix Spike Dup (P1D1503-MSD1)	**Source: 1D15001-05**			Prepared & Analyzed: 04/15/21						
C6-C12	1020	28.1	mg/kg dry	1120	ND	91.1	75-125	6.66	20	
>C12-C28	940	28.1	"	1120	18.2	82.0	75-125	4.89	20	
Surrogate: 1-Chlorooctane	*102*		*"*	*112*		*90.4*	*70-130*			
Surrogate: o-Terphenyl	*55.3*		*"*	*56.2*		*98.5*	*70-130*			
Batch P1D1504 - TX 1005										
Blank (P1D1504-BLK1)				Prepared: 04/15/21 Analyzed: 04/18/21						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*95.0*		*"*	*100*		*95.0*	*70-130*			
Surrogate: o-Terphenyl	*51.0*		*"*	*50.0*		*102*	*70-130*			
LCS (P1D1504-BS1)				Prepared: 04/15/21 Analyzed: 04/18/21						
C6-C12	956	25.0	mg/kg wet	1000		95.6	75-125			
>C12-C28	860	25.0	"	1000		86.0	75-125			
Surrogate: 1-Chlorooctane	*99.7*		*"*	*100*		*99.7*	*70-130*			
Surrogate: o-Terphenyl	*51.1*		*"*	*50.0*		*102*	*70-130*			
LCS Dup (P1D1504-BSD1)				Prepared: 04/15/21 Analyzed: 04/18/21						
C6-C12	953	25.0	mg/kg wet	1000		95.3	75-125	0.335	20	
>C12-C28	863	25.0	"	1000		86.3	75-125	0.358	20	
Surrogate: 1-Chlorooctane	*99.6*		*"*	*100*		*99.6*	*70-130*			
Surrogate: o-Terphenyl	*52.2*		*"*	*50.0*		*104*	*70-130*			

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1504 - TX 1005										
Calibration Check (P1D1504-CCV1)				Prepared: 04/15/21 Analyzed: 04/18/21						
C6-C12	483	25.0	mg/kg wet	500		96.6	85-115			
>C12-C28	427	25.0	"	500		85.3	85-115			
Surrogate: 1-Chlorooctane	*95.5*		*"*	*100*		*95.5*	*70-130*			
Surrogate: o-Terphenyl	*50.7*		*"*	*50.0*		*101*	*70-130*			
Calibration Check (P1D1504-CCV2)				Prepared: 04/15/21 Analyzed: 04/18/21						
C6-C12	480	25.0	mg/kg wet	500		96.1	85-115			
>C12-C28	446	25.0	"	500		89.2	85-115			
Surrogate: 1-Chlorooctane	*95.8*		*"*	*100*		*95.8*	*70-130*			
Surrogate: o-Terphenyl	*51.3*		*"*	*50.0*		*103*	*70-130*			
Matrix Spike (P1D1504-MS1)		**Source: 1D14012-13**		Prepared: 04/15/21 Analyzed: 04/18/21						
C6-C12	984	25.5	mg/kg dry	1020	13.7	95.1	75-125			
>C12-C28	907	25.5	"	1020	35.6	85.4	75-125			
Surrogate: 1-Chlorooctane	*109*		*"*	*102*		*107*	*70-130*			
Surrogate: o-Terphenyl	*59.1*		*"*	*51.0*		*116*	*70-130*			
Matrix Spike Dup (P1D1504-MSD1)		**Source: 1D14012-13**		Prepared: 04/15/21 Analyzed: 04/18/21						
C6-C12	989	25.5	mg/kg dry	1020	13.7	95.6	75-125	0.566	20	
>C12-C28	912	25.5	"	1020	35.6	85.9	75-125	0.598	20	
Surrogate: 1-Chlorooctane	*109*		*"*	*102*		*107*	*70-130*			
Surrogate: o-Terphenyl	*59.5*		*"*	*51.0*		*117*	*70-130*			

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

Notes and Definitions

S-GC1	Surrogate recovery outside of control limits. A second analysis confirmed the original results..
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 4/28/2021

Brent Barron, Laboratory Director/Technical Director

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: Sylwia Reynolds
Company Name: Dean
Company Address: 12600 WCR 91
City/State/Zip: Midland TX 79707
Telephone No: 432-230-0920
Fax No:
Sampler Signature: Robert Belloc
e-mail: sylwiareynolds@deandigs.com; jeffkindley@deandigs.com; kaylanlongee@deanequip.com; elizabethstuart@deandigs.com; stevecasanova@deandigs.com

Project Name: PP-21105 Thomas Station Release
Project #: PP-21105
Project Loc: Eddy County, New Mexico
WORK ORDER #: SRS # 2021-020
Report Format: X Standard ☐ TRRP ☐ NPDES

(lab use only) ORDER #: 1D14012

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO3 250ml Poly	HCl	H2SO4	NaOH	Na2S2O3	None 1L Poly	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)				7 Day TAT	24 hour TAT
1	AH-1 @ 5 ft	5 ft	5 ft	04/13/21	9:27 AM		1	x								Soil		x		x							x					
2	AH-1 @ 7 ft	7 ft	7 ft	04/13/21	9:33 AM		1	x								Soil		*		x							*					
3	AH-1 @ 9 ft	9 ft	9 ft	04/13/21	9:41 AM		1	x								Soil		*		*							*					
4	AH-1 @ 11 ft	11 ft	11 ft	04/13/21	9:57 AM		1	x								Soil		*		*							*					
5	AH-1 @ 13 ft	13 ft	13 ft	04/13/21	10:03 AM		1	x								Soil		*		*							*					
6	AH-1 @ 14 ft	14 ft	14 ft	04/13/21	10:05 AM		1	x								Soil		*		*							*					
7	AH-2 @ 2 ft	2 ft	2 ft	04/13/21	1:30 PM		1	x								Soil		x		x							x					
8	AH-2 @ 3 ft	3 ft	3 ft	04/13/21	1:35 PM		1	x								Soil		*		x							*					
9	AH-2 @ 4 ft	4 ft	4 ft	04/13/21	1:40 PM		1	x								Soil		*		*							*					
10	AH-2 HS @ 1 ft	1 ft	1 ft	04/14/21	10:42 AM		1	x								Soil		x		x							x					

Special Instructions:
* If chlorides are > or = 20,000 ppm run next deeper sample, if TPH (dro/gro) is > = 1,000 ppm and/or Total TPH is >= 2,500 ppm run next deeper sample, if Benzene is >= to 10 ppm and/or Total BTEX is >=50 ppm run next deeper sample.

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	4/14/21	14:05			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: [signature]	4/14/21	14:05

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 5 °C
Adjusted: 5.6 °C Factor CF +.2

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: Sylwia Reynolds
Company Name: Dean
Company Address: 12600 West County Rd. 91
City/State/Zip: Midland TX 79707
Telephone No: 432-230-0920 Fax No:
Sampler Signature: Robert Belloc
e-mail: sylwiareynolds@deandigs.com, jeffkindley@deandigs.com, kaylanlongee@deanequip.com

Project Name: PP-21105 Thomas Station Release
Project #: PP-21105
Project Loc: Eddy County, New Mexico
WORK ORDER #: SRS # 2021-020
Report Format: X Standard ☐ TRRP ☐ NPDES
elizabethstuart@deandigs.com
stevecasanova@deandigs.com

(lab use only) ORDER #: 1D14012

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3 250ml Poly	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None 1L Poly	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)				7 Day TAT	24 hour TAT
11	AH-2 HS @ 2 ft	2 ft	2 ft	04/13/21	10:45 AM		1	X								Soil		*		x							*				X	
12	AH-2 HS @ 3 ft	3 ft	3 ft	04/13/21	10:46 AM		1	X								Soil		*		*							*				X	
13	AH-3 HN @ 1ft	1 ft	1 ft	04/13/21	1:00 PM		1	X								Soil		x		x							x				X	
14	AH-3 HN @ 2 ft	2 ft	2 ft	04/13/21	1:05 PM		1	X								Soil		*		x							*				X	
15	AH-3 HN @ 3 ft	3 ft	3 ft	04/13/21	1:10 PM		1	X								Soil		*		*							*				X	
16	AH-4 HW @ 1 ft	1 ft	1 ft	04/13/21	1:15 PM		1	X								Soil		x		x							x				X	
17	AH-4 HW @ 2 ft	2 ft	2 ft	04/13/21	1:20 PM		1	X								Soil		*		x							*				X	
18	AH-1 HE @ 1 ft	1 ft	1 ft	04/13/21	10:05 AM		1	X								Soil		x		x							x				X	
19	AH-1 HE @ 2 ft	2 ft	2 ft	04/13/21	10:07 AM		1	X								Soil		*		x							*				X	
20	AH-1 HE @ 3 ft	3 ft	3 ft	04/13/21	10:13 AM		1	X								Soil		*		*							*				X	

Special Instructions:
* If chlorides are > or = 20,000 ppm run next deeper sample, if TPH (dro/gro) is > = 1,000 ppm and/or Total TPH is >= 2,500 ppm run next deeper sample, if Benzene is >= to 10 ppm and/or Total BTEX is >=50 ppm run next deeper sample.

	Date	Time		Date	Time
Relinquished by: Robert Belloc	4/14/21	14:05			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: Tessa Bledsoe	4/14/21	14:05

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL RedEx Lone Star
Temperature Upon Receipt:
Received: 5 °C
Adjusted: 6 °C Factor 0.5

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylwia Reynolds

Company Name: Dean

Company Address: 12600 West County Rd. 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920 Fax No:

Sampler Signature: Robert Belloc

e-mail: sylwiareynolds@deandigs.com, jeffkindley@deandigs.com, kaylanlongee@deanequip.com, elizabethstuart@deandigs.com, stevecasanova@deandigs.com

Project Name: PP-21105 Thomas Station Release

Project #: PP-21105

Project Loc: Eddy County, New Mexico

WORK ORDER #: SRS # 2021-020

Report Format: X Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 1D14012

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3 250 ml Poly	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None 1L Poly	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)			7 Day TAT	24 hour TAT
21	AH-1 @ HE @ 4 ft	4 ft	4 ft	04/13/21	10:38 AM		1	X								Soil		*		*							*			X	

Special Instructions:
* If chlorides are > or = 20,000 ppm run next deeper sample, if TPH (dro/gro) is > = 1,000 ppm and/or Total TPH is >= 2,500 ppm run next deeper sample, if Benzene is >= to 10 ppm and/or Total BTEX is >=50 ppm run next deeper sample.

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	4/14/21	14:05			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: [signature]	Date 4/14/21	Time 14:05

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 5.6 °C
Adjusted: °C Factor CF +1.2

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Sylwia Reynolds

Dean

12600 W County Rd 91

Midland, TX 79707

Project: Plains-Thomas Station 04.10.21 Reportable

Project Number: PP-21105

Location: Eddy County, NM

Lab Order Number: 1D28006

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 04/30/21

Dean	Project: Plains-Thomas Station 04.10.21 Reportable	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 @ 14'	1D28006-01	Soil	04/27/21 10:00	04-28-2021 11:00
CS-NW @ 6"	1D28006-03	Soil	04/27/21 11:00	04-28-2021 11:00
CS-WW @ 2'	1D28006-04	Soil	04/27/21 11:20	04-28-2021 11:00
CS-EW @ 2'	1D28006-05	Soil	04/27/21 11:25	04-28-2021 11:00
BH-1 @ 1.5'	1D28006-06	Soil	04/27/21 11:40	04-28-2021 11:00

Dean	Project: Plains-Thomas Station 04.10.21 Reportable	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

AH-1 @ 14'

1D28006-01 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00132	mg/kg dry	1	P1D2905	04/29/21 14:53	04/29/21 23:03	EPA 8021B	
Toluene	ND	0.00132	mg/kg dry	1	P1D2905	04/29/21 14:53	04/29/21 23:03	EPA 8021B	
Ethylbenzene	ND	0.00132	mg/kg dry	1	P1D2905	04/29/21 14:53	04/29/21 23:03	EPA 8021B	
Xylene (p/m)	ND	0.00263	mg/kg dry	1	P1D2905	04/29/21 14:53	04/29/21 23:03	EPA 8021B	
Xylene (o)	ND	0.00132	mg/kg dry	1	P1D2905	04/29/21 14:53	04/29/21 23:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*110 %*		*80-120*		*P1D2905*	*04/29/21 14:53*	*04/29/21 23:03*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*103 %*		*80-120*		*P1D2905*	*04/29/21 14:53*	*04/29/21 23:03*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**29.3**	1.32	mg/kg dry	1	P1D2803	04/28/21 11:27	04/28/21 19:39	EPA 300.0	
% Moisture	**24.0**	0.1	%	1	P1D2902	04/29/21 08:25	04/29/21 08:33	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	32.9	mg/kg dry	1	P1D2805	04/28/21 12:50	04/29/21 01:44	TPH 8015M	
>C12-C28	ND	32.9	mg/kg dry	1	P1D2805	04/28/21 12:50	04/29/21 01:44	TPH 8015M	
>C28-C35	ND	32.9	mg/kg dry	1	P1D2805	04/28/21 12:50	04/29/21 01:44	TPH 8015M	
Surrogate: 1-Chlorooctane	*78.6 %*		*70-130*		*P1D2805*	*04/28/21 12:50*	*04/29/21 01:44*	*TPH 8015M*	
Surrogate: o-Terphenyl	*83.1 %*		*70-130*		*P1D2805*	*04/28/21 12:50*	*04/29/21 01:44*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	32.9	mg/kg dry	1	[CALC]	04/28/21 12:50	04/29/21 01:44	calc	

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CS-NW @ 6"

1D28006-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P1D2905	04/29/21 14:53	04/29/21 23:44	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P1D2905	04/29/21 14:53	04/29/21 23:44	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P1D2905	04/29/21 14:53	04/29/21 23:44	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P1D2905	04/29/21 14:53	04/29/21 23:44	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P1D2905	04/29/21 14:53	04/29/21 23:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*118 %*		*80-120*		*P1D2905*	*04/29/21 14:53*	*04/29/21 23:44*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*106 %*		*80-120*		*P1D2905*	*04/29/21 14:53*	*04/29/21 23:44*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**37.0**	1.01	mg/kg dry	1	P1D2803	04/28/21 11:27	04/28/21 23:27	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P1D2902	04/29/21 08:25	04/29/21 08:33	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P1D2805	04/28/21 12:50	04/29/21 02:30	TPH 8015M	
>C12-C28	**32.0**	25.3	mg/kg dry	1	P1D2805	04/28/21 12:50	04/29/21 02:30	TPH 8015M	
>C28-C35	**72.6**	25.3	mg/kg dry	1	P1D2805	04/28/21 12:50	04/29/21 02:30	TPH 8015M	
Surrogate: 1-Chlorooctane	*89.8 %*		*70-130*		*P1D2805*	*04/28/21 12:50*	*04/29/21 02:30*	*TPH 8015M*	
Surrogate: o-Terphenyl	*93.3 %*		*70-130*		*P1D2805*	*04/28/21 12:50*	*04/29/21 02:30*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**105**	25.3	mg/kg dry	1	[CALC]	04/28/21 12:50	04/29/21 02:30	calc	

Dean	Project: Plains-Thomas Station 04.10.21 Reportable	Fax:
12600 W County Rd 91	Project Number: PP-21105	
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CS-WW @ 2'

1D28006-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00122	mg/kg dry	1	P1D2905	04/29/21 14:53	04/30/21 00:05	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P1D2905	04/29/21 14:53	04/30/21 00:05	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P1D2905	04/29/21 14:53	04/30/21 00:05	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P1D2905	04/29/21 14:53	04/30/21 00:05	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P1D2905	04/29/21 14:53	04/30/21 00:05	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*107 %*	*80-120*		*P1D2905*	*04/29/21 14:53*	*04/30/21 00:05*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*118 %*	*80-120*		*P1D2905*	*04/29/21 14:53*	*04/30/21 00:05*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5.37**	1.22	mg/kg dry	1	P1D2803	04/28/21 11:27	04/28/21 23:44	EPA 300.0	
% Moisture	**18.0**	0.1	%	1	P1D2902	04/29/21 08:25	04/29/21 08:33	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	30.5	mg/kg dry	1	P1D2805	04/28/21 12:50	04/29/21 02:53	TPH 8015M	
>C12-C28	ND	30.5	mg/kg dry	1	P1D2805	04/28/21 12:50	04/29/21 02:53	TPH 8015M	
>C28-C35	ND	30.5	mg/kg dry	1	P1D2805	04/28/21 12:50	04/29/21 02:53	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.7 %*	*70-130*		*P1D2805*	*04/28/21 12:50*	*04/29/21 02:53*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.9 %*	*70-130*		*P1D2805*	*04/28/21 12:50*	*04/29/21 02:53*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	30.5	mg/kg dry	1	[CALC]	04/28/21 12:50	04/29/21 02:53	calc	

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CS-EW @ 2'

1D28006-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P1D2905	04/29/21 14:53	04/30/21 00:25	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P1D2905	04/29/21 14:53	04/30/21 00:25	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P1D2905	04/29/21 14:53	04/30/21 00:25	EPA 8021B	
Xylene (p/m)	**0.00341**	0.00202	mg/kg dry	1	P1D2905	04/29/21 14:53	04/30/21 00:25	EPA 8021B	
Xylene (o)	**0.00348**	0.00101	mg/kg dry	1	P1D2905	04/29/21 14:53	04/30/21 00:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*110 %*		*80-120*		*P1D2905*	*04/29/21 14:53*	*04/30/21 00:25*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*122 %*		*80-120*		*P1D2905*	*04/29/21 14:53*	*04/30/21 00:25*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5.51**	1.01	mg/kg dry	1	P1D2803	04/28/21 11:27	04/29/21 00:00	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P1D2902	04/29/21 08:25	04/29/21 08:33	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P1D2805	04/28/21 12:50	04/29/21 03:17	TPH 8015M	
>C12-C28	**143**	25.3	mg/kg dry	1	P1D2805	04/28/21 12:50	04/29/21 03:17	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P1D2805	04/28/21 12:50	04/29/21 03:17	TPH 8015M	
Surrogate: 1-Chlorooctane	*75.5 %*		*70-130*		*P1D2805*	*04/28/21 12:50*	*04/29/21 03:17*	*TPH 8015M*	
Surrogate: o-Terphenyl	*79.0 %*		*70-130*		*P1D2805*	*04/28/21 12:50*	*04/29/21 03:17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**143**	25.3	mg/kg dry	1	[CALC]	04/28/21 12:50	04/29/21 03:17	calc	

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12600 W County Rd 91	Project Number: PP-21105	
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BH-1 @ 1.5'

1D28006-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00122	mg/kg dry	1	P1D2905	04/29/21 14:53	04/30/21 00:46	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P1D2905	04/29/21 14:53	04/30/21 00:46	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P1D2905	04/29/21 14:53	04/30/21 00:46	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P1D2905	04/29/21 14:53	04/30/21 00:46	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P1D2905	04/29/21 14:53	04/30/21 00:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*112 %*	*80-120*		*P1D2905*	*04/29/21 14:53*	*04/30/21 00:46*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*106 %*	*80-120*		*P1D2905*	*04/29/21 14:53*	*04/30/21 00:46*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4.23**	1.22	mg/kg dry	1	P1D2803	04/28/21 11:27	04/29/21 00:16	EPA 300.0	
% Moisture	**18.0**	0.1	%	1	P1D2902	04/29/21 08:25	04/29/21 08:33	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	30.5	mg/kg dry	1	P1D2805	04/28/21 12:50	04/29/21 03:40	TPH 8015M	
>C12-C28	ND	30.5	mg/kg dry	1	P1D2805	04/28/21 12:50	04/29/21 03:40	TPH 8015M	
>C28-C35	ND	30.5	mg/kg dry	1	P1D2805	04/28/21 12:50	04/29/21 03:40	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.3 %*	*70-130*		*P1D2805*	*04/28/21 12:50*	*04/29/21 03:40*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.8 %*	*70-130*		*P1D2805*	*04/28/21 12:50*	*04/29/21 03:40*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	30.5	mg/kg dry	1	[CALC]	04/28/21 12:50	04/29/21 03:40	calc	

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D2905 - * DEFAULT PREP *** **										
Blank (P1D2905-BLK1)				Prepared & Analyzed: 04/29/21						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.131*		*"*	*0.120*		*109*	*80-120*			
LCS (P1D2905-BS1)				Prepared & Analyzed: 04/29/21						
Benzene	0.0987	0.00100	mg/kg wet	0.100		98.7	70-130			
Toluene	0.112	0.00100	"	0.100		112	70-130			
Ethylbenzene	0.117	0.00100	"	0.100		117	70-130			
Xylene (p/m)	0.234	0.00200	"	0.200		117	70-130			
Xylene (o)	0.104	0.00100	"	0.100		104	70-130			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
LCS Dup (P1D2905-BSD1)				Prepared & Analyzed: 04/29/21						
Benzene	0.0873	0.00100	mg/kg wet	0.100		87.3	70-130	12.3	20	
Toluene	0.0997	0.00100	"	0.100		99.7	70-130	11.8	20	
Ethylbenzene	0.109	0.00100	"	0.100		109	70-130	7.56	20	
Xylene (p/m)	0.219	0.00200	"	0.200		109	70-130	6.77	20	
Xylene (o)	0.0932	0.00100	"	0.100		93.2	70-130	11.1	20	
Surrogate: 1,4-Difluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.133*		*"*	*0.120*		*111*	*80-120*			
Calibration Blank (P1D2905-CCB1)				Prepared & Analyzed: 04/29/21						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.134*		*"*	*0.120*		*111*	*80-120*			

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D2905 - * DEFAULT PREP *** **										
Calibration Blank (P1D2905-CCB2)				Prepared & Analyzed: 04/29/21						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.120*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			
Calibration Check (P1D2905-CCV1)				Prepared & Analyzed: 04/29/21						
Benzene	0.0932	0.00100	mg/kg wet	0.100		93.2	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.231	0.00200	"	0.200		115	80-120			
Xylene (o)	0.0980	0.00100	"	0.100		98.0	80-120			
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.120*		*104*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*105*	*75-125*			
Calibration Check (P1D2905-CCV2)				Prepared & Analyzed: 04/29/21						
Benzene	0.0828	0.00100	mg/kg wet	0.100		82.8	80-120			
Toluene	0.0981	0.00100	"	0.100		98.1	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.229	0.00200	"	0.200		114	80-120			
Xylene (o)	0.0955	0.00100	"	0.100		95.5	80-120			
Surrogate: 1,4-Difluorobenzene	*0.134*		*"*	*0.120*		*112*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.143*		*"*	*0.120*		*119*	*75-125*			
Calibration Check (P1D2905-CCV3)				Prepared: 04/29/21 Analyzed: 04/30/21						
Benzene	0.0884	0.00100	mg/kg wet	0.100		88.4	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		118	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	*0.141*		*"*	*0.120*		*118*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.133*		*"*	*0.120*		*111*	*75-125*			

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D2905 - * DEFAULT PREP *** **										
Matrix Spike (P1D2905-MS1)	**Source: 1D26005-25**			Prepared: 04/29/21 Analyzed: 04/30/21						
Benzene	0.0709	0.00105	mg/kg dry	0.105	ND	67.4	80-120			QM-07
Toluene	0.0871	0.00105	"	0.105	ND	82.7	80-120			
Ethylbenzene	0.0882	0.00105	"	0.105	ND	83.8	80-120			
Xylene (p/m)	0.176	0.00211	"	0.211	ND	83.5	80-120			
Xylene (o)	0.0742	0.00105	"	0.105	ND	70.5	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	*0.141*		"	*0.126*		*112*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.149*		"	*0.126*		*118*	*80-120*			
Matrix Spike Dup (P1D2905-MSD1)	**Source: 1D26005-25**			Prepared: 04/29/21 Analyzed: 04/30/21						
Benzene	0.0862	0.00105	mg/kg dry	0.105	ND	81.9	80-120	19.5	20	
Toluene	0.104	0.00105	"	0.105	ND	98.9	80-120	17.8	20	
Ethylbenzene	0.106	0.00105	"	0.105	ND	100	80-120	17.9	20	
Xylene (p/m)	0.222	0.00211	"	0.211	ND	106	80-120	23.4	20	QM-07
Xylene (o)	0.0933	0.00105	"	0.105	ND	88.6	80-120	22.7	20	QM-07
Surrogate: 1,4-Difluorobenzene	*0.158*		"	*0.126*		*125*	*80-120*			*S-GC1*
Surrogate: 4-Bromofluorobenzene	*0.175*		"	*0.126*		*139*	*80-120*			*S-GC1*

Dean	Project: Plains-Thomas Station 04.10.21 Reportable	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D2803 - * DEFAULT PREP *** **										
Blank (P1D2803-BLK1)				Prepared & Analyzed: 04/28/21						
Chloride	ND	1.00	mg/kg wet							
LCS (P1D2803-BS1)				Prepared & Analyzed: 04/28/21						
Chloride	407	1.00	mg/kg wet	400		102	90-110			
LCS Dup (P1D2803-BSD1)				Prepared & Analyzed: 04/28/21						
Chloride	408	1.00	mg/kg wet	400		102	90-110	0.194	20	
Calibration Check (P1D2803-CCV1)				Prepared & Analyzed: 04/28/21						
Chloride	20.4		mg/kg	20.0		102	90-110			
Calibration Check (P1D2803-CCV2)				Prepared: 04/28/21 Analyzed: 04/29/21						
Chloride	20.4		mg/kg	20.0		102	90-110			
Calibration Check (P1D2803-CCV3)				Prepared: 04/28/21 Analyzed: 04/29/21						
Chloride	20.2		mg/kg	20.0		101	90-110			
Matrix Spike (P1D2803-MS1)		**Source: 1D28006-01**		Prepared & Analyzed: 04/28/21						
Chloride	650	1.32	mg/kg dry	658	29.3	94.3	80-120			
Matrix Spike (P1D2803-MS2)		**Source: 1D22009-03**		Prepared: 04/28/21 Analyzed: 04/29/21						
Chloride	13600	29.4	mg/kg dry	2940	10600	102	80-120			
Matrix Spike Dup (P1D2803-MSD1)		**Source: 1D28006-01**		Prepared & Analyzed: 04/28/21						
Chloride	700	1.32	mg/kg dry	658	29.3	102	80-120	7.52	20	
Matrix Spike Dup (P1D2803-MSD2)		**Source: 1D22009-03**		Prepared: 04/28/21 Analyzed: 04/29/21						
Chloride	13800	29.4	mg/kg dry	2940	10600	107	80-120	0.909	20	

Dean	Project: Plains-Thomas Station 04.10.21 Reportable	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D2902 - * DEFAULT PREP *** **										
Blank (P1D2902-BLK1)				Prepared & Analyzed: 04/29/21						
% Moisture	ND	0.1	%							
Duplicate (P1D2902-DUP1)		**Source: 1D28001-06**		Prepared & Analyzed: 04/29/21						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P1D2902-DUP2)		**Source: 1D28004-04**		Prepared & Analyzed: 04/29/21						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P1D2902-DUP3)		**Source: 1D28006-02**		Prepared & Analyzed: 04/29/21						
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P1D2902-DUP4)		**Source: 1D28007-06**		Prepared & Analyzed: 04/29/21						
% Moisture	26.0	0.1	%		26.0			0.00	20	
Duplicate (P1D2902-DUP5)		**Source: 1D28012-09**		Prepared & Analyzed: 04/29/21						
% Moisture	ND	0.1	%		ND				20	
Duplicate (P1D2902-DUP6)		**Source: 1D28012-19**		Prepared & Analyzed: 04/29/21						
% Moisture	1.0	0.1	%		1.0			0.00	20	

Dean	Project: Plains-Thomas Station 04.10.21 Reportable	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

Notes and Definitions

S-GC1	Surrogate recovery outside of control limits. A second analysis confirmed the original results..
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 4/30/2021

Brent Barron, Laboratory Director/Technical Director

Dean	Project:	Plains-Thomas Station 04.10.21 Reportable	Fax:
12600 W County Rd 91	Project Number:	PP-21105	
Midland TX, 79707	Project Manager:	Sylwia Reynolds	

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylwia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920 Fax No:

Sampler Signature: ROBERT BELLOC

e-mail: sylwiareynolds@deandigs.com
jeffkindley@deandigs.com
kaylanlongee@deanequip.com
stevecasanova@deandigs.com

Project Name: PP-21105 THOMAS STATION 04.10.21 REPORTABLE

Project #: PP-21105

Project Loc: EDDY COUNTY, NEW MEXICO

WORK ORDER #: SRS # 2021-020

Report Format: X Standard ☐ TRRP ☐ NPDES

elizabethstuart@deandigs.com
algroves@paalp.com

(lab use only)
ORDER #: 1D 2800 06

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3 250 ml Poly	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None 1L Poly	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)				7 Day TAT	72 hour TAT
1	AH-1 @ 14'	14 FT	14 FT	04/27/21	10:00 AM		1	X								SOIL				X		X							X					X
2	*** AH-1 @ 14.5'	14.5 FT	14.5 FT	04/27/21	10:15 AM		1	X								SOIL																		X
3	CS-NW @ 6"	6 IN	6 IN	04/27/21	11:00 AM		1	X								SOIL				X		X							X					X
4	CS-WW @ 2'	2 FT	2 FT	04/27/21	11:20 AM		1	X								SOIL				X		X							X					X
5	CS-EW @ 2'	2 FT	2 FT	04/27/21	11:25 AM		1	X								SOIL				X		X							X					X
6	BH-1 @ 1.5'	1.5 FT	1.5 FT	04/27/21	11:40 AM		1	X								SOIL				X		X							X					X

Special Instructions:
***Run deeper sample for each Auger Hole if TPH DRO/GRO Concentrates are equal to or greater than 100 mg/Kg. If Benzene PPM is greater than or equal to 10 and 50 for total BTEX, run deeper. If Chloride Concentrations are greater than or equal to 20,000 mg/Kg, run deeper samples.

Relinquished by:	Date	Time	Received by:	Date	Time
ROBERT BELLOC	04.28.2021	8:57 AM		04.28.2021	10:18 AM
Robert Belloc	4/28/21	11:08		Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
				4.28.21	1100

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep.?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: °C
Adjusted: °C Factor

2.0 / 1.0 3.0 CF4

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Sylwia Reynolds

Dean

12600 W County Rd 91

Midland, TX 79707

Project: Plains-Thomas Station 04.10.21 Reportable

Project Number: PP-21105

Location: Eddy County, NM

Lab Order Number: 1E06008

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 05/13/21

Dean	Project: Plains-Thomas Station 04.10.21 Reportable	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-NW @ 1'	1E06008-01	Soil	05/06/21 10:30	05-06-2021 16:13
CS-EW @ 3'	1E06008-02	Soil	05/06/21 10:15	05-06-2021 16:13

Dean	Project: Plains-Thomas Station 04.10.21 Reportable	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

CS-NW @ 1'

1E06008-01 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**2.0**	0.1	%	1	P1E1004	05/10/21 08:47	05/10/21 08:49	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P1E1003	05/10/21 08:10	05/11/21 08:21	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P1E1003	05/10/21 08:10	05/11/21 08:21	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P1E1003	05/10/21 08:10	05/11/21 08:21	TPH 8015M	
Surrogate: 1-Chlorooctane	*66.7 %*		*70-130*		*P1E1003*	*05/10/21 08:10*	*05/11/21 08:21*	*TPH 8015M*	*S-GC*
Surrogate: o-Terphenyl	*73.6 %*		*70-130*		*P1E1003*	*05/10/21 08:10*	*05/11/21 08:21*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/10/21 08:10	05/11/21 08:21	calc	

Dean	Project: Plains-Thomas Station 04.10.21 Reportable	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

CS-EW @ 3'

1E06008-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**3.0**	0.1	%	1	P1E1004	05/10/21 08:47	05/10/21 08:49	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P1E1003	05/10/21 08:10	05/11/21 08:44	TPH 8015M	
>C12-C28	**26.1**	25.8	mg/kg dry	1	P1E1003	05/10/21 08:10	05/11/21 08:44	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P1E1003	05/10/21 08:10	05/11/21 08:44	TPH 8015M	
Surrogate: 1-Chlorooctane	*66.1 %*		*70-130*		*P1E1003*	*05/10/21 08:10*	*05/11/21 08:44*	*TPH 8015M*	*S-GC*
Surrogate: o-Terphenyl	*73.0 %*		*70-130*		*P1E1003*	*05/10/21 08:10*	*05/11/21 08:44*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**26.1**	25.8	mg/kg dry	1	[CALC]	05/10/21 08:10	05/11/21 08:44	calc	

Dean	Project: Plains-Thomas Station 04.10.21 Reportable	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1E1004 - * DEFAULT PREP *** **										
Blank (P1E1004-BLK1)				Prepared & Analyzed: 05/10/21						
% Moisture	ND	0.1	%							
Blank (P1E1004-BLK2)				Prepared & Analyzed: 05/10/21						
% Moisture	ND	0.1	%							
Duplicate (P1E1004-DUP1)	**Source: 1E06006-10**			Prepared & Analyzed: 05/10/21						
% Moisture	12.0	0.1	%		11.0			8.70	20	
Duplicate (P1E1004-DUP2)	**Source: 1E06006-20**			Prepared & Analyzed: 05/10/21						
% Moisture	10.0	0.1	%		10.0			0.00	20	

Dean	Project: Plains-Thomas Station 04.10.21 Reportable	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1E1003 - TX 1005										
Blank (P1E1003-BLK1)				Prepared & Analyzed: 05/10/21						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*82.5*		*"*	*100*		*82.5*	*70-130*			
Surrogate: o-Terphenyl	*44.6*		*"*	*50.0*		*89.3*	*70-130*			
LCS (P1E1003-BS1)				Prepared & Analyzed: 05/10/21						
C6-C12	958	25.0	mg/kg wet	1000		95.8	75-125			
>C12-C28	922	25.0	"	1000		92.2	75-125			
Surrogate: 1-Chlorooctane	*99.8*		*"*	*100*		*99.8*	*70-130*			
Surrogate: o-Terphenyl	*52.5*		*"*	*50.0*		*105*	*70-130*			
LCS Dup (P1E1003-BSD1)				Prepared & Analyzed: 05/10/21						
C6-C12	820	25.0	mg/kg wet	1000		82.0	75-125	15.5	20	
>C12-C28	812	25.0	"	1000		81.2	75-125	12.8	20	
Surrogate: 1-Chlorooctane	*119*		*"*	*100*		*119*	*70-130*			
Surrogate: o-Terphenyl	*48.3*		*"*	*50.0*		*96.6*	*70-130*			
Calibration Blank (P1E1003-CCB1)				Prepared & Analyzed: 05/10/21						
C6-C12	6.34		mg/kg wet							
>C12-C28	8.38		"							
Surrogate: 1-Chlorooctane	*92.9*		*"*	*100*		*92.9*	*70-130*			
Surrogate: o-Terphenyl	*49.9*		*"*	*50.0*		*99.8*	*70-130*			
Calibration Check (P1E1003-CCV1)				Prepared & Analyzed: 05/10/21						
C6-C12	434	25.0	mg/kg wet	500		86.7	85-115			
>C12-C28	470	25.0	"	500		94.0	85-115			
Surrogate: 1-Chlorooctane	*107*		*"*	*100*		*107*	*70-130*			
Surrogate: o-Terphenyl	*50.0*		*"*	*50.0*		*99.9*	*70-130*			

Dean	Project: Plains-Thomas Station 04.10.21 Reportable	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1E1003 - TX 1005										
Calibration Check (P1E1003-CCV2)				Prepared: 05/10/21 Analyzed: 05/12/21						
C6-C12	543	25.0	mg/kg wet	500		109	85-115			
>C12-C28	563	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	*123*		*"*	*100*		*123*	*70-130*			
Surrogate: o-Terphenyl	*57.9*		*"*	*50.0*		*116*	*70-130*			
Calibration Check (P1E1003-CCV3)				Prepared: 05/10/21 Analyzed: 05/11/21						
C6-C12	509	25.0	mg/kg wet	500		102	85-115			
>C12-C28	506	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	*106*		*"*	*100*		*106*	*70-130*			
Surrogate: o-Terphenyl	*56.9*		*"*	*50.0*		*114*	*70-130*			
Matrix Spike (P1E1003-MS1)	**Source: 1E07003-03**			Prepared: 05/10/21 Analyzed: 05/11/21						
C6-C12	1220	29.1	mg/kg dry	1160	11.7	104	75-125			
>C12-C28	1240	29.1	"	1160	434	69.3	75-125			QM-05
Surrogate: 1-Chlorooctane	*113*		*"*	*116*		*97.0*	*70-130*			
Surrogate: o-Terphenyl	*60.4*		*"*	*58.1*		*104*	*70-130*			
Matrix Spike Dup (P1E1003-MSD1)	**Source: 1E07003-03**			Prepared: 05/10/21 Analyzed: 05/11/21						
C6-C12	1160	29.1	mg/kg dry	1160	11.7	98.8	75-125	5.00	20	
>C12-C28	1120	29.1	"	1160	434	59.0	75-125	16.1	20	QM-05
Surrogate: 1-Chlorooctane	*106*		*"*	*116*		*91.4*	*70-130*			
Surrogate: o-Terphenyl	*63.7*		*"*	*58.1*		*110*	*70-130*			

Dean	Project: Plains-Thomas Station 04.10.21 Reportable	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 5/13/2021

Brent Barron, Laboratory Director/Technical Director

Dean	Project:	Plains-Thomas Station 04.10.21 Reportable	Fax:
12600 W County Rd 91	Project Number:	PP-21105	
Midland TX, 79707	Project Manager:	Sylwia Reynolds	

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701

Phone: 432-686-7235

PG. 1 of 1

Project Manager: Sylwia Reynolds
Company Name: Dean
Company Address: 12600 WCR 91
City/State/Zip: Midland TX 79707
Telephone No: 432-230-0920
Fax No:
Sampler Signature: ANGEL MEDINA
e-mail: sylwiareynolds@deandigs.com, jeffkindley@deandigs.com, kaylanlongee@deanequip.com

Project Name: PP-21105 Thomas Station Release
Project #: PP-21105
Project Loc: Eddy County, New Mexico
WORK ORDER #: SRS # 2021-020

Report Format: X Standard ☐ TRRP ☐ NPDES
elizabethstuart@deandigs.com
stevecasanova@deandigs.com

(lab use only)
ORDER #: E06008

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3 250 ml Poly	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None 1L Poly	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)				7 Day TAT	24 hour TAT
1	CS-NW @1'	-	1 FT	05/06/21	1030		1	x								Soil										X				x	
2	CS-EW @3'	-	3 FT	05/06/21	1015		1	x								Soil										X				x	

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Angel Medina	05/06/2021	4:15			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: Tiana Bledsoe	Date 5/6/21	Time 16:13

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 5 °C
Adjusted: 6 °C Factor CF +1

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Sylwia Reynolds

Dean

12600 W County Rd 91

Midland, TX 79707

Project: Plains-Thomas Station Release

Project Number: PP-21105

Location: Eddy County, NM

Lab Order Number: 1D14011

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 04/27/21

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1	1D14011-01	Soil	04/13/21 14:30	04-14-2021 14:05

TCLP Benzene, TCLP Metals and RCI analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:
https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

NORM analysis were subcontracted to ARS International, Port Allen LA. Their report is attached to the email due to an incompatibility with our LIMS Reporting module.

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

SP-1

1D14011-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**11.7**	1.02	mg/kg dry	1	P1D1603	04/16/21 14:24	04/16/21 16:59	EPA 300.0	
Reactive Cyanide	ND	100	ppm	1	P1D2709	04/23/21 14:10	04/23/21 14:10	SW846 9010B	SUB-13
Ignitability by Flashpoint	> 212		°F	1	P1D2709	04/21/21 09:00	04/21/21 09:00	ASTM D93-80	SUB-13
pH	**8.79**	0.10	pH Units	1	P1D2709	04/26/21 15:56	04/26/21 15:56	EPA 9045B	SUB-13
% Moisture	**2.0**	0.1	%	1	P1D1505	04/15/21 13:00	04/15/21 13:16	ASTM D2216	
Reactive Sulfide	ND	100	ppm	1	P1D2709	04/23/21 13:20	04/23/21 13:20	SW846 9030B	SUB-13
Temperature	**21.1**	0.00	°C	1	P1D2709	04/26/21 15:56	04/26/21 15:56	EPA 170.1	SUB-13
Naturally Occuring Radioactive Material (N.O.R.M.)									
Radium 226	**2.68**	1.30	pCi/g	1	P1D2214	04/19/21 08:24	04/20/21 08:33	EPA 901.1	SUB12
Radium 228	ND	0.29	pCi/g	1	P1D2214	04/19/21 08:24	04/20/21 08:33	EPA 901.1	SUB12
Lead 210	ND	1.33	pCi/g	1	P1D2214	04/19/21 08:24	04/20/21 08:33	EPA 901.1	SUB12
Total Gamma	**11.0**		pCi/g	1	P1D2214	04/19/21 08:24	04/20/21 08:33	EPA 901.1	SUB12
Lead 210 Analysis Error	**0.72**		+/- 2 Sigma	1	P1D2214	04/19/21 08:24	04/20/21 08:33	EPA 901.1	SUB12
Radium 226 Analysis Error	**1.23**		+/- 2 Sigma	1	P1D2214	04/19/21 08:24	04/20/21 08:33	EPA 901.1	SUB12
Radium 228 Analysis Error	**0.16**		+/- 2 Sigma	1	P1D2214	04/19/21 08:24	04/20/21 08:33	EPA 901.1	SUB12
TCLP Metals 1311 by EPA / Standard Methods									
Mercury	ND	0.000200	mg/L	1	P1D2709	04/22/21 10:00	04/23/21 14:19	EPA 7470A	SUB-13
Chromium	ND	0.0500	mg/L	1	P1D2709	04/22/21 10:00	04/26/21 16:19	EPA 6020A	SUB-13
Arsenic	ND	0.0500	mg/L	1	P1D2709	04/22/21 10:00	04/26/21 16:19	EPA 6020A	SUB-13
Selenium	ND	0.0500	mg/L	1	P1D2709	04/22/21 10:00	04/26/21 16:19	EPA 6020A	SUB-13
Silver	ND	0.0500	mg/L	1	P1D2709	04/22/21 10:00	04/26/21 16:19	EPA 6020A	SUB-13
Cadmium	ND	0.0500	mg/L	1	P1D2709	04/22/21 10:00	04/26/21 16:19	EPA 6020A	SUB-13
Barium	**0.494**	0.200	mg/L	1	P1D2709	04/22/21 10:00	04/26/21 16:19	EPA 6020A	SUB-13
Lead	ND	0.0500	mg/L	1	P1D2709	04/22/21 10:00	04/26/21 16:19	EPA 6020A	SUB-13

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

SP-1

1D14011-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
TCLP Volatile Organic Compounds by EPA Method 1311/8260B									
Benzene	ND	100	ug/l	1	P1D2709	04/22/21 10:00	04/22/21 16:41	EPA 8260B	SUB-13
Physical Parameters by APHA/ASTM/EPA Methods									
Free Liquid	PASS		N/A	1	P1D2215	04/22/21 08:00	04/22/21 08:15	EPA 9095	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1505 - * DEFAULT PREP *** **										
Blank (P1D1505-BLK1)				Prepared & Analyzed: 04/15/21						
% Moisture	ND	0.1	%							
Blank (P1D1505-BLK2)				Prepared & Analyzed: 04/15/21						
% Moisture	ND	0.1	%							
Blank (P1D1505-BLK3)				Prepared & Analyzed: 04/15/21						
% Moisture	ND	0.1	%							
Blank (P1D1505-BLK4)				Prepared & Analyzed: 04/15/21						
% Moisture	ND	0.1	%							
Blank (P1D1505-BLK5)				Prepared & Analyzed: 04/15/21						
% Moisture	ND	0.1	%							
Blank (P1D1505-BLK6)				Prepared & Analyzed: 04/15/21						
% Moisture	ND	0.1	%							
Blank (P1D1505-BLK7)				Prepared & Analyzed: 04/15/21						
% Moisture	ND	0.1	%							
Duplicate (P1D1505-DUP1)		**Source: 1D14001-05**		Prepared & Analyzed: 04/15/21						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P1D1505-DUP2)		**Source: 1D14001-15**		Prepared & Analyzed: 04/15/21						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P1D1505-DUP3)		**Source: 1D13013-01**		Prepared & Analyzed: 04/15/21						
% Moisture	1.0	0.1	%		1.0			0.00	20	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1505 - * DEFAULT PREP *** **										
Duplicate (P1D1505-DUP4)		**Source: 1D13015-02**		Prepared & Analyzed: 04/15/21						
% Moisture	4.0	0.1	%		3.0			28.6	20	R3
Duplicate (P1D1505-DUP7)		**Source: 1D13016-01**		Prepared & Analyzed: 04/15/21						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P1D1505-DUP8)		**Source: 1D14001-01**		Prepared & Analyzed: 04/15/21						
% Moisture	7.0	0.1	%		3.0			80.0	20	R3
Duplicate (P1D1505-DUP9)		**Source: 1D14005-06**		Prepared & Analyzed: 04/15/21						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P1D1505-DUPA)		**Source: 1D14008-01**		Prepared & Analyzed: 04/15/21						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P1D1505-DUPB)		**Source: 1D14012-04**		Prepared & Analyzed: 04/15/21						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P1D1505-DUPC)		**Source: 1D14012-14**		Prepared & Analyzed: 04/15/21						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Batch P1D1603 - * DEFAULT PREP *** **										
Blank (P1D1603-BLK1)				Prepared & Analyzed: 04/16/21						
Chloride	ND	1.00	mg/kg wet							
LCS (P1D1603-BS1)				Prepared & Analyzed: 04/16/21						
Chloride	383	1.00	mg/kg wet	400		95.8	90-110			

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D1603 - * DEFAULT PREP *** **										
LCS Dup (P1D1603-BSD1)				Prepared & Analyzed: 04/16/21						
Chloride	387	1.00	mg/kg wet	400		96.8	90-110	0.950	20	
Calibration Check (P1D1603-CCV1)				Prepared & Analyzed: 04/16/21						
Chloride	18.7		mg/kg	20.0		93.4	90-110			
Calibration Check (P1D1603-CCV2)				Prepared & Analyzed: 04/16/21						
Chloride	18.1		mg/kg	20.0		90.7	90-110			
Calibration Check (P1D1603-CCV3)				Prepared & Analyzed: 04/16/21						
Chloride	18.5		mg/kg	20.0		92.4	90-110			
Matrix Spike (P1D1603-MS1)		**Source: 1D14010-07**		Prepared & Analyzed: 04/16/21						
Chloride	1330	1.25	mg/kg dry	625	929	64.7	80-120			QM-05
Matrix Spike (P1D1603-MS2)		**Source: 1D15002-01**		Prepared & Analyzed: 04/16/21						
Chloride	15900	58.1	mg/kg dry	5810	10500	91.8	80-120			
Matrix Spike Dup (P1D1603-MSD1)		**Source: 1D14010-07**		Prepared & Analyzed: 04/16/21						
Chloride	1400	1.25	mg/kg dry	625	929	74.9	80-120	4.70	20	QM-05
Matrix Spike Dup (P1D1603-MSD2)		**Source: 1D15002-01**		Prepared & Analyzed: 04/16/21						
Chloride	15900	58.1	mg/kg dry	5810	10500	92.1	80-120	0.103	20	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1D2215 - * DEFAULT PREP *** **										
Duplicate (P1D2215-DUP1)	**Source: 1D14011-01**			Prepared & Analyzed: 04/22/21						
Free Liquid	PASS		N/A		PASS				200	

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

Notes and Definitions

SUB-13	Subcontract of analyte/analysis to ALS Houston.
SUB12	Analysis was subcontracted to ARS Port Allen Lousiana.
ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
H	Orignal Analysis was above the calibration range. Reanalysis at dilution was performed outside of the Holding Time.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 4/27/2021

Brent Barron, Laboratory Director/Technical Director

Dean	Project: Plains-Thomas Station Release	Fax:
12600 W County Rd 91	Project Number: PP-21105	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylwia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920 Fax No:

Sampler Signature: Robert Belloc

e-mail: sylwiareynolds@deandigs.com
jeffkindley@deandigs.com
kaylanlongee@deanequip.com
elizabethstuart@deandigs.com
stevecasanova@deandigs.com

Project Name: PP-21105 Thomas Station Release

Project #: PP-21105

Project Loc: Eddy County, New Mexico

WORK ORDER #: SRS # 2021-020

Report Format: X Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 1D1401 1

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3 250ml Poly	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None 1L Poly	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)	7 Day TAT	24 hour TAT
1	SP-1	-	-	04/13/21	2:30 PM		1	x								Soil			x	x	x	x	x		x	x			

Analyze For:

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Robert Belloc	4/14/21	14:05			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
			Tasha Bledsoe	4/14/21	14:05

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx Lone Star	Y	N

Temperature Upon Receipt:
Received: 6 °C
Adjusted: 6 °C Factor CF +1.2

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

April 26, 2021

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS21041088**

Laboratory Results for: **1D14011**

Dear Brent Barron,

ALS Environmental received 1 sample(s) on Apr 20, 2021 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Bernadette Fini

Generated By: JUMOKE.LAWAL
Bernadette A. Fini
Project Manager

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
Work Order: HS21041088

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS21041088-01	1D14011-01	Solid		13-Apr-2021 14:30	20-Apr-2021 10:10	☐

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP **CASE NARRATIVE**
Project: 1D14011
Work Order: HS21041088

Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

GCMS Volatiles by Method SW8260

Batch ID: 164937

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW1311/6020

Batch ID: 165043

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7470A

Batch ID: 165014

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.3.2

Batch ID: R382267

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9045D

Batch ID: R382382

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.4.2

Batch ID: R382265

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method ASTM D92-12b

Batch ID: R382124

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
Sample ID: 1D14011-01
Collection Date: 13-Apr-2021 14:30

ANALYTICAL REPORT
WorkOrder:HS21041088
Lab ID:HS21041088-01
Matrix:Solid

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES	**Method:SW8260**		Leache:SW1311 / 22-Apr-2021	Prep:SW1311 / 22-Apr-2021		Analyst: PC
Benzene	ND		0.10	mg/L	20	22-Apr-2021 16:41
Surr: 1,2-Dichloroethane-d4	*93.1*		*70-126*	*%REC*	*20*	*22-Apr-2021 16:41*
Surr: 4-Bromofluorobenzene	*96.6*		*82-124*	*%REC*	*20*	*22-Apr-2021 16:41*
Surr: Dibromofluoromethane	*92.8*		*77-123*	*%REC*	*20*	*22-Apr-2021 16:41*
Surr: Toluene-d8	*98.3*		*82-127*	*%REC*	*20*	*22-Apr-2021 16:41*
TCLP METALS BY SW6020A	**Method:SW1311/6020**		Leache:SW1311 / 22-Apr-2021	Prep:SW3010A / 23-Apr-2021		Analyst: JHD
Arsenic	ND		0.0500	mg/L	1	26-Apr-2021 16:19
Barium	**0.494**		**0.200**	**mg/L**	1	26-Apr-2021 16:19
Cadmium	ND		0.0500	mg/L	1	26-Apr-2021 16:19
Chromium	ND		0.0500	mg/L	1	26-Apr-2021 16:19
Lead	ND		0.0500	mg/L	1	26-Apr-2021 16:19
Selenium	ND		0.0500	mg/L	1	26-Apr-2021 16:19
Silver	ND		0.0500	mg/L	1	26-Apr-2021 16:19
TCLP MERCURY BY SW7470A	**Method:SW7470A**		Leache:SW1311 / 22-Apr-2021	Prep:SW7470A / 23-Apr-2021		Analyst: MSC
Mercury	ND		0.000200	mg/L	1	23-Apr-2021 14:19
FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B	**Method:ASTM D92-12b**					Analyst: TH
Flash Point	> 212	n	50.0	°F	1	21-Apr-2021 09:00
REACTIVE CYANIDE	**Method:SW7.3.3.2**					Analyst: MZD
Reactive Cyanide	ND	n	100	mg/Kg	1	23-Apr-2021 14:10
REACTIVE SULFIDE	**Method:SW7.3.4.2**					Analyst: MZD
Reactive Sulfide	ND	n	100	mg/Kg	1	23-Apr-2021 13:20
PH SOIL BY SW9045D	**Method:SW9045D**					Analyst: JAC
pH	**8.78**	H	**0.100**	**pH Units**	1	26-Apr-2021 15:56
Temp Deg C @pH	**21.1**	H	**0**	**°C**	1	26-Apr-2021 15:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
WorkOrder: HS21041088

Batch ID: 164934 **Start Date:** 21 Apr 2021 17:00 **End Date:** 22 Apr 2021 10:00
Method: TCLP MERCURY EXTRACTION BY SW1311 **Prep Code:** 1311LHG EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21041088-01		100 (grams)	2000 (mL)	20	8-oz glass, Neat

Batch ID: 164935 **Start Date:** 21 Apr 2021 17:00 **End Date:** 22 Apr 2021 10:00
Method: TCLP METALS EXTRACTION BY SW1311 **Prep Code:** 1311LM EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21041088-01		100 (grams)	2000 (mL)	20	8-oz glass, Neat

Batch ID: 164937 **Start Date:** 21 Apr 2021 17:00 **End Date:** 22 Apr 2021 10:00
Method: TCLP ZHE (VOL EXTRACTION) **Prep Code:** 1311ZHE

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21041088-01		25 (g)	500 (mL)	20	4-oz glass, Neat

Batch ID: 165014 **Start Date:** 23 Apr 2021 08:30 **End Date:** 23 Apr 2021 11:30
Method: MERCURY TCLP PREP BY SW7470A **Prep Code:** 1311_HGPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21041088-01		10 (mL)	10 (mL)	1	8-oz glass, Neat

Batch ID: 165043 **Start Date:** 23 Apr 2021 13:00 **End Date:** 23 Apr 2021 17:00
Method: TCLP LEACHATE DIGESTION BY SW3010A **Prep Code:** 3010A_TCLP

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21041088-01		1 (mL)	10 (mL)	10	8-oz glass, Neat

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
WorkOrder: HS21041088

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 164937 (0)	**Test Name :** TCLP VOLATILES				**Matrix:** Solid	
HS21041088-01	1D14011-01	13 Apr 2021 14:30	22 Apr 2021 10:00	22 Apr 2021 11:39	22 Apr 2021 16:41	20
Batch ID: 165014 (0)	**Test Name :** TCLP MERCURY BY SW7470A				**Matrix:** Solid	
HS21041088-01	1D14011-01	13 Apr 2021 14:30	22 Apr 2021 10:00	23 Apr 2021 11:30	23 Apr 2021 14:19	1
Batch ID: 165043 (0)	**Test Name :** TCLP METALS BY SW6020A				**Matrix:** Solid	
HS21041088-01	1D14011-01	13 Apr 2021 14:30	22 Apr 2021 10:00	23 Apr 2021 17:00	26 Apr 2021 16:19	1
Batch ID: R382124 (0)	**Test Name :** FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B				**Matrix:** Solid	
HS21041088-01	1D14011-01	13 Apr 2021 14:30			21 Apr 2021 09:00	1
Batch ID: R382265 (0)	**Test Name :** REACTIVE SULFIDE				**Matrix:** Solid	
HS21041088-01	1D14011-01	13 Apr 2021 14:30			23 Apr 2021 13:20	1
Batch ID: R382267 (0)	**Test Name :** REACTIVE CYANIDE				**Matrix:** Solid	
HS21041088-01	1D14011-01	13 Apr 2021 14:30			23 Apr 2021 14:10	1
Batch ID: R382382 (0)	**Test Name :** PH SOIL BY SW9045D				**Matrix:** Solid	
HS21041088-01	1D14011-01	13 Apr 2021 14:30			26 Apr 2021 15:56	1

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
WorkOrder: HS21041088

QC BATCH REPORT

Batch ID: 165014 (0) **Instrument: HG03** **Method: TCLP MERCURY BY SW7470A**

MBLK Sample ID: **MBLKT2-165014** Units: **mg/L** Analysis Date: **23-Apr-2021 13:22**
Client ID: Run ID: **HG03_382249** SeqNo: **6058541** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

MBLK Sample ID: **MBLKT4-165014** Units: **mg/L** Analysis Date: **23-Apr-2021 13:31**
Client ID: Run ID: **HG03_382249** SeqNo: **6058545** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

MBLK Sample ID: **MBLKT6-165014** Units: **mg/L** Analysis Date: **23-Apr-2021 13:34**
Client ID: Run ID: **HG03_382249** SeqNo: **6058547** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

MBLK Sample ID: **MBLKT5-165014** Units: **mg/L** Analysis Date: **23-Apr-2021 13:32**
Client ID: Run ID: **HG03_382249** SeqNo: **6058546** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

MBLK Sample ID: **MBLKT3-165014** Units: **mg/L** Analysis Date: **23-Apr-2021 13:23**
Client ID: Run ID: **HG03_382249** SeqNo: **6058542** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

MBLK Sample ID: **MBLKT1-165014** Units: **mg/L** Analysis Date: **23-Apr-2021 13:20**
Client ID: Run ID: **HG03_382249** SeqNo: **6058540** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
WorkOrder: HS21041088

QC BATCH REPORT

Batch ID: 165014 (0) **Instrument: HG03** **Method: TCLP MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-165014** Units: **mg/L** Analysis Date: **23-Apr-2021 13:18**
Client ID: Run ID: **HG03_382249** SeqNo: **6058539** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.000200								

LCS Sample ID: **LCS-165014** Units: **mg/L** Analysis Date: **23-Apr-2021 13:36**
Client ID: Run ID: **HG03_382249** SeqNo: **6058548** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00492	0.000200	0.005	0	98.4	80 - 120				

MS Sample ID: **HS21040653-04MS** Units: **mg/L** Analysis Date: **23-Apr-2021 13:39**
Client ID: Run ID: **HG03_382249** SeqNo: **6058550** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00424	0.000200	0.005	0.000019	84.4	75 - 125				

MSD Sample ID: **HS21040653-04MSD** Units: **mg/L** Analysis Date: **23-Apr-2021 13:41**
Client ID: Run ID: **HG03_382249** SeqNo: **6058551** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0042	0.000200	0.005	0.000019	83.6	75 - 125	0.00424	0.948	20	

The following samples were analyzed in this batch: HS21041088-01

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
WorkOrder: HS21041088

QC BATCH REPORT

Batch ID: 165043 (0) **Instrument: ICPMS06** **Method: TCLP METALS BY SW6020A**

MBLK Sample ID: **MBLKT2-165043** Units: **mg/L** Analysis Date: **26-Apr-2021 15:42**
Client ID: Run ID: **ICPMS06_382355** SeqNo: **6061376** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.0500								
Barium	ND	0.200								
Cadmium	ND	0.0500								
Chromium	ND	0.0500								
Lead	ND	0.0500								
Selenium	ND	0.0500								
Silver	ND	0.0500								

MBLK Sample ID: **MBLKT4-165043** Units: **mg/L** Analysis Date: **26-Apr-2021 15:46**
Client ID: Run ID: **ICPMS06_382355** SeqNo: **6061378** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.0500								
Barium	ND	0.200								
Cadmium	ND	0.0500								
Chromium	ND	0.0500								
Lead	ND	0.0500								
Selenium	ND	0.0500								
Silver	ND	0.0500								

MBLK Sample ID: **MBLKT6-165043** Units: **mg/L** Analysis Date: **26-Apr-2021 15:50**
Client ID: Run ID: **ICPMS06_382355** SeqNo: **6061380** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.0500								
Barium	ND	0.200								
Cadmium	ND	0.0500								
Chromium	ND	0.0500								
Lead	ND	0.0500								
Selenium	ND	0.0500								
Silver	ND	0.0500								

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
WorkOrder: HS21041088

QC BATCH REPORT

Batch ID: 165043 (0) **Instrument: ICPMS06** **Method: TCLP METALS BY SW6020A**

MBLK Sample ID: **MBLKT5-165043** Units: **mg/L** Analysis Date: **26-Apr-2021 15:48**
Client ID: Run ID: **ICPMS06_382355** SeqNo: **6061379** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.0500								
Barium	ND	0.200								
Cadmium	ND	0.0500								
Chromium	ND	0.0500								
Lead	ND	0.0500								
Selenium	ND	0.0500								
Silver	ND	0.0500								

MBLK Sample ID: **MBLKT3-165043** Units: **mg/L** Analysis Date: **26-Apr-2021 15:44**
Client ID: Run ID: **ICPMS06_382355** SeqNo: **6061377** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.0500								
Barium	ND	0.200								
Cadmium	ND	0.0500								
Chromium	ND	0.0500								
Lead	ND	0.0500								
Selenium	ND	0.0500								
Silver	ND	0.0500								

MBLK Sample ID: **MBLKT1-165043** Units: **mg/L** Analysis Date: **26-Apr-2021 15:40**
Client ID: Run ID: **ICPMS06_382355** SeqNo: **6061375** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.0500								
Barium	ND	0.200								
Cadmium	ND	0.0500								
Chromium	ND	0.0500								
Lead	ND	0.0500								
Selenium	ND	0.0500								
Silver	ND	0.0500								

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
WorkOrder: HS21041088

QC BATCH REPORT

Batch ID: 165043 (0) **Instrument: ICPMS06** **Method: TCLP METALS BY SW6020A**

MBLK Sample ID: **MBLK-165043** Units: **mg/L** Analysis Date: **26-Apr-2021 15:38**
Client ID: Run ID: **ICPMS06_382355** SeqNo: **6061374** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.00500								
Barium	ND	0.0200								
Cadmium	ND	0.00500								
Chromium	ND	0.00500								
Lead	ND	0.00500								
Selenium	ND	0.00500								
Silver	ND	0.00500								

LCS Sample ID: **LCS-165043** Units: **mg/L** Analysis Date: **26-Apr-2021 15:52**
Client ID: Run ID: **ICPMS06_382355** SeqNo: **6061381** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04465	0.00500	0.05	0	89.3	80 - 120				
Barium	0.04345	0.0200	0.05	0	86.9	80 - 120				
Cadmium	0.04639	0.00500	0.05	0	92.8	80 - 120				
Chromium	0.04484	0.00500	0.05	0	89.7	80 - 120				
Lead	0.04393	0.00500	0.05	0	87.9	80 - 120				
Selenium	0.04728	0.00500	0.05	0	94.6	80 - 120				
Silver	0.04728	0.00500	0.05	0	94.6	80 - 120				

MS Sample ID: **HS21040653-04MS** Units: **mg/L** Analysis Date: **26-Apr-2021 16:06**
Client ID: Run ID: **ICPMS06_382355** SeqNo: **6061386** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.4587	0.0500	0.5	0.00935	89.9	80 - 120				
Barium	0.6353	0.200	0.5	0.1767	91.7	80 - 120				
Cadmium	0.4543	0.0500	0.5	0.00236	90.4	80 - 120				
Chromium	0.4436	0.0500	0.5	0.00339	88.0	80 - 120				
Lead	0.429	0.0500	0.5	0.00182	85.4	80 - 120				
Selenium	0.473	0.0500	0.5	0.0014	94.3	80 - 120				
Silver	0.4363	0.0500	0.5	0.00004	87.3	80 - 120				

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
WorkOrder: HS21041088

QC BATCH REPORT

Batch ID: 165043 (0) **Instrument: ICPMS06** **Method: TCLP METALS BY SW6020A**

MSD Sample ID: **HS21040653-04MSD** Units: **mg/L** Analysis Date: **26-Apr-2021 16:08**
Client ID: Run ID: **ICPMS06_382355** SeqNo: **6061387** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.4361	0.0500	0.5	0.00935	85.3	80 - 120	0.4587	5.06	20	
Barium	0.6134	0.200	0.5	0.1767	87.3	80 - 120	0.6353	3.5	20	
Cadmium	0.4476	0.0500	0.5	0.00236	89.0	80 - 120	0.4543	1.5	20	
Chromium	0.4322	0.0500	0.5	0.00339	85.8	80 - 120	0.4436	2.58	20	
Lead	0.4234	0.0500	0.5	0.00182	84.3	80 - 120	0.429	1.33	20	
Selenium	0.4587	0.0500	0.5	0.0014	91.5	80 - 120	0.473	3.07	20	
Silver	0.4309	0.0500	0.5	0.00004	86.2	80 - 120	0.4363	1.24	20	

PDS Sample ID: **HS21040653-04PDS** Units: **mg/L** Analysis Date: **26-Apr-2021 16:10**
Client ID: Run ID: **ICPMS06_382355** SeqNo: **6061388** PrepDate: **23-Apr-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.9524	0.0500	1	0.00935	94.3	75 - 125				
Barium	1.094	0.200	1	0.1767	91.7	75 - 125				
Cadmium	0.9466	0.0500	1	0.00236	94.4	75 - 125				
Chromium	0.9278	0.0500	1	0.00339	92.4	75 - 125				
Lead	0.9141	0.0500	1	0.00182	91.2	75 - 125				
Selenium	0.9928	0.0500	1	0.0014	99.1	75 - 125				
Silver	0.9009	0.0500	1	0.00004	90.1	75 - 125				

SD Sample ID: **HS21040653-04SD** Units: **mg/L** Analysis Date: **26-Apr-2021 16:04**
Client ID: Run ID: **ICPMS06_382355** SeqNo: **6061385** PrepDate: **23-Apr-2021** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	ND	0.250					0.00935	0	10	
Barium	0.162	1.00					0.1767	0	10	J
Cadmium	ND	0.250					0.00236	0	10	
Chromium	ND	0.250					0.00339	0	10	
Lead	ND	0.250					0.00182	0	10	
Selenium	ND	0.250					0.0014	0	10	
Silver	ND	0.250					0.00004	0	10	

The following samples were analyzed in this batch: HS21041088-01

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
WorkOrder: HS21041088

QC BATCH REPORT

Batch ID: 164937 (0) **Instrument: VOA9** **Method: TCLP VOLATILES**

MBLK Sample ID: **MBLK-164937** Units: **ug/L** Analysis Date: **22-Apr-2021 16:20**
Client ID: Run ID: **VOA9_382244** SeqNo: **6057939** PrepDate: **22-Apr-2021** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	100								
Surr: 1,2-Dichloroethane-d4	*955.3*	*100*	*1000*	*0*	*95.5*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*961.5*	*100*	*1000*	*0*	*96.2*	*82 - 115*				
Surr: Dibromofluoromethane	*950*	*100*	*1000*	*0*	*95.0*	*73 - 126*				
Surr: Toluene-d8	*974.5*	*100*	*1000*	*0*	*97.5*	*81 - 120*				

LCS Sample ID: **VLCSW-164937** Units: **ug/L** Analysis Date: **22-Apr-2021 12:07**
Client ID: Run ID: **VOA9_382244** SeqNo: **6057935** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.98	5.0	20	0	94.9	74 - 120				
Surr: 1,2-Dichloroethane-d4	*47.78*	*5.0*	*50*	*0*	*95.6*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*48.82*	*5.0*	*50*	*0*	*97.6*	*82 - 115*				
Surr: Dibromofluoromethane	*48.24*	*5.0*	*50*	*0*	*96.5*	*73 - 126*				
Surr: Toluene-d8	*48.39*	*5.0*	*50*	*0*	*96.8*	*81 - 120*				

MS Sample ID: **HS21041051-02MS** Units: **ug/L** Analysis Date: **22-Apr-2021 15:17**
Client ID: Run ID: **VOA9_382244** SeqNo: **6057938** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.65	5.0	20	0.9995	103	70 - 127				
Surr: 1,2-Dichloroethane-d4	*46.45*	*5.0*	*50*	*0*	*92.9*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*50.31*	*5.0*	*50*	*0*	*101*	*82 - 124*				
Surr: Dibromofluoromethane	*46.98*	*5.0*	*50*	*0*	*94.0*	*77 - 123*				
Surr: Toluene-d8	*50.01*	*5.0*	*50*	*0*	*100*	*82 - 127*				

The following samples were analyzed in this batch: HS21041088-01

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
WorkOrder: HS21041088

QC BATCH REPORT

Batch ID: R382124 (0) **Instrument:** WetChem_HS **Method:** FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B

DUP Sample ID: **HS21041037-01DUP** Units: **°F** Analysis Date: **21-Apr-2021 09:00**
Client ID: Run ID: **WetChem_HS_382124** SeqNo: **6054994** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flash Point	> 212	50.0					0	0	30	

The following samples were analyzed in this batch: HS21041088-01

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
WorkOrder: HS21041088

QC BATCH REPORT

Batch ID: R382265 (0) **Instrument: WetChem_HS** **Method: REACTIVE SULFIDE**

MBLK Sample ID: **MBLK-382265** Units: **mg/Kg** Analysis Date: **23-Apr-2021 13:20**
Client ID: Run ID: **WetChem_HS_382265** SeqNo: **6058523** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Reactive Sulfide	ND	100								

LCS Sample ID: **LCS-382265** Units: **mg/Kg** Analysis Date: **23-Apr-2021 13:20**
Client ID: Run ID: **WetChem_HS_382265** SeqNo: **6058524** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Reactive Sulfide	64	10.0	100	0	64.0	20 - 120				

MS Sample ID: **HS21040979-02MS** Units: **mg/Kg** Analysis Date: **23-Apr-2021 13:20**
Client ID: Run ID: **WetChem_HS_382265** SeqNo: **6058525** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Reactive Sulfide	68	10.0	100	0	68.0	20 - 120				

The following samples were analyzed in this batch: HS21041088-01

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
WorkOrder: HS21041088

QC BATCH REPORT

Batch ID: R382267 (0) **Instrument: UV-2450** **Method: REACTIVE CYANIDE**

MBLK Sample ID: **MBLK-382267** Units: **mg/Kg** Analysis Date: **23-Apr-2021 14:10**
Client ID: Run ID: **UV-2450_382267** SeqNo: **6058557** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Reactive Cyanide	ND	100								

LCS Sample ID: **LCS-382267** Units: **mg/Kg** Analysis Date: **23-Apr-2021 14:10**
Client ID: Run ID: **UV-2450_382267** SeqNo: **6058558** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Reactive Cyanide	0.62	10.0	10	0	6.20	5 - 100				J

MS Sample ID: **HS21040979-02MS** Units: **mg/Kg** Analysis Date: **23-Apr-2021 14:10**
Client ID: Run ID: **UV-2450_382267** SeqNo: **6058560** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Reactive Cyanide	0.72	10.0	10	0	7.20	5 - 100				J

The following samples were analyzed in this batch: HS21041088-01

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
WorkOrder: HS21041088

QC BATCH REPORT

Batch ID: R382382 (0) **Instrument:** WetChem_HS **Method:** PH SOIL BY SW9045D

DUP Sample ID: **HS21040653-04DUP** Units: **pH Units** Analysis Date: **26-Apr-2021 15:56**
Client ID: Run ID: **WetChem_HS_382382** SeqNo: **6061325** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.98	0.100					7.91	0.881	10	
Temp Deg C @pH	21.1	0					21.3	0.943	10	

The following samples were analyzed in this batch: HS21041088-01

ALS Houston, US Date: 26-Apr-21

Client: Permian Basin Environmental Lab, LP
Project: 1D14011
WorkOrder: **HS21041088**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
Date	
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter

ALS Houston, US Date: 26-Apr-21

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	21-022-0	26-Mar-2022
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	PJLA L20-507-R2	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2020-2021	31-Jul-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
North Carolina	624-2021	31-Dec-2021
North Dakota	R-193 2020-2021	30-Apr-2021
Oklahoma	2020-165	31-Aug-2021
Texas	T104704231-20-26	30-Apr-2021
Texas	T104704231-21-27	30-Apr-2022

ALS Houston, US Date: 26-Apr-21

Sample Receipt Checklist

Work Order ID: HS21041088 **Date/Time Received:** 20-Apr-2021 10:10

Client Name: Permian Basin Lab **Received by:** Pablo Marinez

Completed By:	/S/ Pablo Marinez	21-Apr-2021 12:18	**Reviewed by:**	/S/ Bernadette A. Fini	21-Apr-2021 14:40
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **SOLID** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☑	Not Present ☐
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:N/A
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.5°C UC/C	IR 31	
Cooler(s)/Kit(s):	RED		
Date/Time sample(s) sent to storage:	4/21/21 12:20		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron
Company Name: PBEL
Company Address: 1400 Rankin HWY
City/State/Zip: Midland Texas 79701
Telephone No: 432-661-4184 Fax No:
Sampler Signature: N/A e-mail: brentbarron@pbelab.com

Project Name: SUBCONTRACT
Project #:
Project Loc:
PO #:
Report Format: X Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 2x 40mL VOA	H_2SO_4 1 Amber 500 250 poly	NaOH /ZNAC 250 Poly 1	$Na_2S_2O_3$	None Poly 500mL 250mL Glass Amber 1000 500 mL	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: 8260B COMPLETE LIST	METALS RCRA 8 TCLP ICPMS/7471	RCI	8260B TCLP BENZENE	NORM-COMPLETE	8270C SEMIVOLATILE	PCB 8280 ONLY	8270C PAH LL	8260C SEMIVOLATILE	METHANOL 8015M	TOX 9023	Triethylene Glycol 8015m	PH	48 HOUR RUSH	STANDARD 4 DAY
	1D14011-01			4/13/2021	14:30		1									S				X	X	X								X		X

HS21041088
Permian Basin Environmental Lab, LP
1D14011

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron		16:00			
Relinquished by:	Date	Time	Received by: Paul Mann	4-20-21	1010
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx LC		

Temperature Upon Receipt:
Received: 0.5C °C
Adjusted: °C Factor

RED IR 31 CF0

APPENDIX C
PHOTOGRAPHIC DOCUMENTATION

Photograph No 1.	
Date: April 8, 2021	Direction: Northeast
Description: View of initial excavation area.	

Photograph No 2.	
Date: April 10, 2021	Direction: East
Description: View of reportable release within initial excavation.	

Photograph No 3.	
Date: April 13, 2021	Direction: East
Description: View of excavation after reportable release.	

Photograph No 4.	
Date: May 6, 2021	Direction: South
Description: View of completed excavation of reportable release.	

Photograph No 5.	
Date: May 27, 2021	Direction: Northeast
Description: View of backfilling activities of excavation.	

Photograph No 6	
Date: May 27, 2021	Direction: East
Description: View of completed backfilling of excavation.	

APPENDIX D
BLM BACKFILL REQUEST AND CORRESPONDENCE

Jeff Kindley

From: Amber L Groves <ALGroves@paalp.com>
Sent: Monday, July 12, 2021 2:34 PM
To: Jeff Kindley
Subject: FW: [EXTERNAL] Initial C-141 for Plains Marketing Thomas Station Release
Attachments: Plains Marketing Thomas Station 2021 Maps.pdf; Plains Marketing Thomas Station 2021 Photos.pdf; Plains Marketing Thomas Station 2021 Chemistry Table.pdf

Jeff,

Here is the backfill request that was sent to BLM. Shelly gave verbal approval to backfill on 5/24/2021.

Thank you,

Amber

From: Amber L Groves
Sent: Monday, May 17, 2021 9:16 AM
To: 'Tucker, Shelly J' <stucker@blm.gov>
Cc: Camille J Bryant <CJBryant@paalp.com>; Gomez, Robert <rgomez@blm.gov>
Subject: RE: [EXTERNAL] Initial C-141 for Plains Marketing Thomas Station Release [External]

Good Morning, Shelly,

I have attached a current chemistry table as well as site maps and photos to this e-mail to serve as a backfill request as well as a deferral request. OSE records indicate that groundwater in the area averages approximately 300' bgs, however the closest well is located 2 miles from the site. As such, the decision was made to remediate to the strictest Table 1 standards. All samples labeled as AH are delineation hand auger samples and samples labeled as CS are confirmation samples of the excavation. Auger Hole 1 (AH-1) is vertically located in the area between Plains' LACT unit and metal containment berm. AH-2 was taken horizontally into the south wall with samples confirmed below current regulatory standards. The AH-1 area was excavated to a depth of 4' bgs and delineated to 14' bgs. Due to safety and equipment integrity, Plains respectfully requests to defer remediation from 4'-14' in the AH-1 area until time of abandonment. Areas of AH-3 through AH-4 were excavated to a depth of 1.5' bgs and confirmation samples taken of the bottom excavation and walls. All samples were below current Table 1 standards and as such, Plains would like to request permission to backfill. Please feel free to give me a call should you have any questions.

Thank you,

Amber L. Groves
Remediation Coordinator
Plains All American
3112 W. US Hwy 82
Lovington, NM 88260
575-200-5517

From: Tucker, Shelly J <stucker@blm.gov>
Sent: Thursday, May 6, 2021 2:29 PM

To: Amber L Groves <ALGroves@paalp.com>
Cc: Camille J Bryant <CJBryant@paalp.com>; Gomez, Robert <rgomez@blm.gov>
Subject: Re: [EXTERNAL] Initial C-141 for Plains Marketing Thomas Station Release [External]

Thank you for the update!

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Realty

Bureau of Land Management
620 E. Greene St
Carlsbad, NM 88220

575.234.5706 - Direct
575.200.0614

stucker@blm.gov

From: Amber L Groves <ALGroves@paalp.com>
Sent: Tuesday, May 4, 2021 10:36 AM
To: Tucker, Shelly J <stucker@blm.gov>
Cc: Camille J Bryant <CJBryant@paalp.com>; Gomez, Robert <rgomez@blm.gov>
Subject: RE: [EXTERNAL] Initial C-141 for Plains Marketing Thomas Station Release

Good Morning, Shelly,

Just wanted to give an update on this release and follow up on our conversation. Initial response was conducted on April 10th with initial delineation and excavation occurring on April 13th. Additional delineation sampling and confirmation sampling was conducted on April 27th. Upon receiving sample results this week, it has been determined that additional excavation will need to take place in two areas of the current excavation. This has been scheduled for Thursday May 6th at 8:00 AM and confirmation sampling will occur the same day. Once all remediation activities are complete, I will send you an updated chemistry table and map showing deferral request area and all sampling conducted with backfill request. Please feel free to give me a call should you have any questions!

Thank you,

Amber L. Groves
Remediation Coordinator
Plains All American
3112 W. US Hwy 82
Lovington, NM 88260
575-200-5517

From: Amber L Groves
Sent: Friday, April 30, 2021 11:40 AM
To: 'Tucker, Shelly J' <stucker@blm.gov>
Cc: Camille J Bryant <CJBryant@paalp.com>; Gomez, Robert <rgomez@blm.gov>
Subject: RE: [EXTERNAL] Initial C-141 for Plains Marketing Thomas Station Release [External]

Good Morning, Shelly,

I have attached the ROW agreement for the surface site that this facility is under which is NM-133027. The release was within the fenceline boundary of the lease on the caliche pad and there are not any offsite impacts. My GPS coordinates on the C-141 were slightly off and the correct ones are: 32.2864, -103.7402. I have a few questions for you on this, so please give me a call to discuss when you get a chance.

Thank you,

Amber L. Groves
Remediation Coordinator
Plains All American
3112 W. US Hwy 82
Lovington, NM 88260
575-200-5517

From: Tucker, Shelly J <stucker@blm.gov>
Sent: Thursday, April 29, 2021 4:47 PM
To: Amber L Groves <ALGroves@paalp.com>
Cc: Camille J Bryant <CJBryant@paalp.com>; Gomez, Robert <rgomez@blm.gov>
Subject: Re: [EXTERNAL] Initial C-141 for Plains Marketing Thomas Station Release [External]

Amber,

I tied this spill to ROW NMNM 136765. I can change the number on my spill records once you verify which ROWs this spill is tied to. You have several on this site.

Based on current data and information that you have submitted to the BLM, please be aware of the following environmental items prior to any sampling or excavation activities.

1. The release **did not impact any known archaeological area**.
2. The point of release occurred within ***ROW NMNM 136765*** which is **covered under a previous survey**, no additional arch surveys will be required.
3. This area **is** located within a **Low cave/karst zone.**
4. This site is **cleared** of **flood zones, active playas, watershed, intermittent streams, etc.**
5. Area is noted to be within **0-3% slope**.
6. Soils are within the **Berino complex.**
7. BLM Seed Mix: **LPC** will be required for any off location remedial actions.
8. The site **is** located within **Isolated Population are for** *LPC habitat.* The site **is not** located within *DSL habitat.* No other T&E species noted (animal) within this area.
9. Area **is** located within *Shinnery Oak PDO*

10. Site **is not** located within a **surveyed** *Special Status Plant Species* area.
11. Site **is not** located within a *Special Area of concern.*
12. Site **is not** located within a *ACEC or SO-3395*.
13. Site **is** located within approved *Potash* development area.

On future correspondence and reports, please reference with ROW NMNM 136765 (this ROW needs to be verified)

Initial Stipulations:

1. A copy of the cleanup plan and conditions of approval must be given to the contractor or site work personnel and be present on the location during all cleanup operations.
2. The authorized officer **must be notified** at the following phases of cleanup or conditions:
    1. Prior to moving equipment on site for cleanup
    2. When the excavation is nearing completion and a BLM inspection of the excavation or witnessing of sampling is required by the cleanup plan COA's.
    3. When the remedial action is nearing completion, to schedule a final onsite **prior** to removal of equipment.
    4. Three days **prior** to the site being seeded (if reseeding is required).
    5. **Any time** that a variance of the approved plan or conditions of approval is required.
    6. In the event that you encounter excavation difficulties, unexpected void areas, or archeological artifacts the Authorized Officer must be contacted immediately. An onsite may be required to assess the situation.
    7. **24 hour sampling notification will be required prior to confirmation samples**.
3. You are **not authorized** to stage equipment nor work outside your approved easement. If this release has impacted areas outside of the authorized easement, you must contact the Authorized Officer for authorization to work outside of the authorized easement.

Pad Cleanup Stipulations:

1. The BLM requires horizontal and vertical delineation of the spill impacted.
2. The BLM may wish to inspect the excavation once it reaches cleanup depth/width. Confirmation samples of excavation bottom, sidewalls, and any visibly affected areas outside of the excavation trench will be required; the BLM may witness the sampling. Contact the authorized officer to schedule
3. Lab analysis of the confirmation sampling must be forwarded to the authorized officer for final approval before backfilling. Based on the sampling results, additional cleanup may be required, or the site may be approved for closure.
4. Once final approval of cleanup is given, the excavation can be backfilled with clean soil to the level of the original native contour plus enough loft to accommodate the settling and compaction of unconsolidated fill soils.
5. Pad areas should be resurfaced with 6" of clean caliche on top of the backfill material.
6. Pad should be bermed with compactable caliche to prevent future spills from leaving the pad and impacting reclaimed pasture areas.
7. At the time of the final onsite for this location, the easement, access road, and the surrounding pasture areas must be in a condition that will pass a routine inspection.

8. All household trash, debris, disconnected pipe and equipment must be removed from the area and the surrounding pasture and hauled to an authorized landfill. Do not bury cleanup trash, equipment debris, or household garbage in the cleanup excavation.

Amendments and Additives Stipulations:

IN THE EVENT THE OPERATOR PROPOSES AN AMENDMENT OR ADDITIVE FOR SPILL MITIGATION, AN MSDS SHEET MUST BE SUBMITTED TO THE BLM FOR APPROVAL PRIOR TO CLEANUP PLAN APPROVAL. ACCORDING TO THE EPA, SUCH PRODUCTS AND AMMENDMENTS MUST BE ON THE EPA PRODUCT SCHEDULE.

1. Soil additives or adjutants to enhance or speed bioremediation or for treatment of contaminated soil (such as dispersants, surface washing or collecting agents, and bioremediation agents) must be listed on the current Environmental Protection Agency (EPA) publication "National Contingency Plan Product Schedule". EPA NATIONAL CONTINGENCY PLAN PRODUCT SCHEDULE: http://www.epa.gov/oem/content/ncp/product_schedule.htm
2. Submit a copy of the MSDS sheet for the products proposed in the cleanup plan for BLM approval prior to application.

Lesser Prairie Chicken-- Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, or spill excavation will ***not*** be allowed between 3:00AM and 9:00AM. The 3:00AM to 9:00AM restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Realty

Bureau of Land Management
620 E. Greene St
Carlsbad, NM 88220

575.234.5706 - Direct
575.200.0614

stucker@blm.gov

From: Amber L Groves <ALGroves@paalp.com>
Sent: Monday, April 12, 2021 2:34 PM
To: CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>; Morgan, Crisha A <camorgan@blm.gov>
Cc: Camille J Bryant <CJBryant@paalp.com>
Subject: [EXTERNAL] Initial C-141 for Plains Marketing Thomas Station Release

Good Afternoon,

Please find attached the initial C-141 for Plains Marketing Thomas Station that will be submitted to NMOCD. Initial notification in the portal has taken place today and attached C-141 submittal to follow shortly. This release occurred as a result of an air eliminator failure on the sales LACT and was discovered on April 10, 2021. Approximately 20 bbls was released with approximately 14 bbls recovered. All impacts are contained to the pad. Please feel free to give me a call at 575-200-5517 should you have any questions.

Thank you,

Amber L. Groves
Remediation Coordinator
Plains All American
3112 W. US Hwy 82
Lovington, NM 88260
575-200-5517

Attention:
The information contained in this message and/or attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. If you received this in error, please contact the Plains Service Desk at 713-646-4444 and delete the material from any system and destroy any copies.
This footnote also confirms that this email message has been scanned for Viruses and Content and cleared.
Attention:
The information contained in this message and/or attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. If you received this in error, please contact the Plains Service Desk at 713-646-4444 and delete the material from any system and destroy any copies.
This footnote also confirms that this email message has been scanned for Viruses and Content and cleared.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2110248840
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

☒ Detailed description of proposed remediation technique
☒ Scaled sitemap with GPS coordinates showing delineation points
☒ Estimated volume of material to be remediated
☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☒ Extents of contamination must be fully delineated.

☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Amber Groves Title: Remediation Coordinator

Signature: Amber Groves Date: 7/14/2021

email: algroves@paalp.com Telephone: (575)200-5517

OCD Only

Received by: Robert Hamlet Date: 10/6/2021

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral Approved

Signature: Robert Hamlet Date: 10/6/2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 36563

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay St, Ste 1600 Houston, TX 77002	OGRID: 34053
	Action Number: 36563
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Plains deferral requests to complete final remediation of the remaining nine (9) ft of impacted soil at soil sample location AH-1, which was left in-situ along with the impacted soils on the south wall of excavation, which abuts against the tank battery, and will be deferred until time of abandonment or replacement/upgrade of the LACT unit. At this time, OCD approves the request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. This is a Federal site and will require like approval from BLM.	10/6/2021