

Incident ID	NRM2015337417
District RP	
Facility ID	
Application ID	

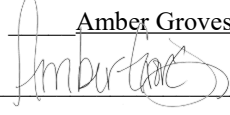
Closure

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Amber Groves Title: Remediation Coordinator
Signature:  Date: 11/3/2020
email: algroves@paalp.com Telephone: 575-200-5517

OCD Only

Received by: Chad Hensley Date: 04/16/2021

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

Closure Approved by:  Date: 04/16/2021
Printed Name: Chad Hensley Title: Environmental Specialist Advanced



12600 WEST CO RD 91
MIDLAND, TX 79707
OFFICE: 432.653.4203

SOIL REMEDIATION ACTIVITIES CLOSURE REPORT

PLAINS PIPELINE, L.P.

PLAINS XTO PERLA VERDE RELEASE

LEA COUNTY, NM

INCIDENT ID: NRM2015337417

SRS #: 2020-051

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October 28, 2020

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

Ryan Mann
New Mexico State Land Office
914 N. Lincoln Street
Hobbs, New Mexico 88240

Re: Soil Remediation Activities Closure Report
Plains XTO Perla Verde Release
Unit Letter J, Section 31, Township 19S, Range 35E
GPS: N 32.613367°, W -103.496006°
Lea County, New Mexico
Incident ID: NRM2015337417
SRS #: 2020-051

1. Introduction

Dean Companies, Inc. (Dean) is pleased to present this Soil Remediation Activities Closure Report on behalf of Plains Pipeline, L.P. (Plains) to document the field soil remediation activities that were conducted at the XTO Perla Verde Release (site). The crude oil release occurred from an air elimination failure, located approximately 22.02 miles southwest of Hobbs on New Mexico State Trust Land, Lea County, New Mexico in Unit Letter J, Section 31, Township 19S, and Range 35E. The GPS coordinates for the site is N 32.613367° and W -103.496006°. A "Site Location Map" and "Topographic Map" are provided as Figure 1 and 2, respectively.

2. Release Description and Response

On May 23, 2020, a crude oil release occurred at the XTO Perla Verde and was attributed to failure of the air eliminator. Approximately ten (10) barrels (bbls) of crude oil was released with nine (9) bbls recovered for a net loss of one (1) bbl of crude oil. The release affected the immediate area adjacent to the Plains operated LACT unit and onto adjacent pad owned by XTO. The release measured approximately one hundred (100) feet (ft) in length by forty (40) ft in width to an estimated maximum depth of one and half (1.5) ft below ground surface (bgs).

On May 26, 2020, Dean was assigned management oversight responsibilities for impacted soil delineation, remediation, soil sampling, site restoration, and reporting activities by Plains. On May 28, 2020, Plains submitted an initial C-141 Form to NMOCD and was assigned incident number: NRM2015337417.

3. NMOCD Regulatory Limits

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 United States Geological Survey (USGS) were accessed to determine if any registered water wells in or near Unit Letter J, Section 31, Township 19S, and Range 35E. Neither of the two databases identified any registered water wells in or near Unit Letter J, Section 31, Township 19S, and Range 35E. However, one water well (OSE L-04157) was listed in Section 6, Township 20S, and Range 35E with groundwater reported at 64 feet bgs. See Appendix B for the NMOSE depth to ground water near the site. In addition, according to the BLM the site is located in an area of low potential karst topography. See Figure 2 "Karst Topography Map". 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 Laguna Tonto located approximately 10.44 miles west of the site. Meeting the previous criteria, the NMOCD restoration and cleanup levels for soils impacted by hydrocarbons with low karst topography is as follows:

Chloride 10,000 mg/Kg

Total TPH 2,500 mg/Kg

GRO+DRO 1,000 mg/Kg

Benzene 10 mg/Kg

Total BTEX 50 mg/Kg

4. Soil Remediation with Bottom Hole and Wall Confirmation Soil Sampling

Between May 27 and September 25, 2020, Dean Personnel conducted soil delineation and oversight of third-party soil remediation activities at the site. Delineation was achieved by field screening soil samples simultaneously with excavation activities. Soil remediation of hydrocarbon impacted soils commenced utilizing hand excavation and a backhoe adjacent to the LACT unit

and onsite equipment with the excavated soils stockpiled on plastic. The site was excavated to a maximum depth of one (1) to two (2) ft bgs at which point the hydrocarbons visually appeared to be remediated both vertically and horizontally. Final dimensions of the excavation were between approximately twenty-one (21) ft and forty-two (42) ft in width, by one hundred and one (101) ft. in length to a depth between six (6) inches and two (2) ft bgs. Approximately 120 cubic yards of soil were removed and stockpiled on plastic at the site. See Appendix C for Site Photographs.

On June 17, 2020, thirteen (13) composite five (5) point bottom hole (CS-1 @ 6", CS-2 @ 6", CS-3 @ 6", CS-4 @ 6", CS-5 @ 6", CS-6 @ 6", CS-7 @ 6", CS-8 @ 6", CS-9 @ 6", CS-10 @ 6", CS-11 @ 6", CS-12 @ 6", and CS-13 @ 2") and eight (8) composite five (5) point wall samples (Pad North SW 6", Pad South SW 6", Pad West SW 6", Pad East SW 6", LACT North SW 1', LACT South SW 1', LACT West SW 1', LACT East SW 1') were collected within two hundred (200) square feet of each other from the bottom and four side walls and submitted for analysis of TPH, BTEX, and Chlorides to Permian Basin Environmental Lab in Midland, Texas. The bottom hole and wall sample analytical results were below the BTEX and Chloride NMOCD standards for all samples analyzed. The TPH results were below the NMOCD standards of 2,500 mg/Kg for all samples analyzed within the facility with the exception of CS-1 @ 6", CS-6 @ 6", Pad North SW 6", Pad West SW 6", Pad East SW 6", and LACT North SW 1', with a concentrations of 5,080 mg/Kg, 3,411 mg/Kg, 6,040 mg/Kg, 3,778 mg/Kg, 8,972 mg/Kg, and 2,933 mg/Kg, respectively. The TPH results for samples Pad South SW 6" and LACT South SW 1' did not exceed NMOCD standards of 2,500 mg/Kg but subsequently exceeded the GRO+DRO total of 1,000 mg/Kg with GRO+DRO results of 1,948.5 mg/Kg and 1,982 mg/Kg, respectively.

On August 25, 2020, after further excavation activities, two (2) composite five (5) point bottom hole samples (CS-1 @ 6" and CS-6 @ 6") and six (6) five (5) point composite wall samples (Pad North SW 6", Pad West SW 6", Pad East SW 6", LACT North SW 1', and LACT South SW 1') were resampled and submitted for analysis of TPH. The TPH concentrations were below the NMOCD standards of all samples analyzed with the exception of Pad North SW @ 6" with a result of 1,906 mg/Kg for TPH (GRO+DRO).

On September 25, 2020, after additional excavation activities, one additional (1) five (5) point composite wall sample (Pad North SW @ 6") was resampled and submitted for analysis of TPH. The TPH concentration was below the NMOCD standards of 2,500 mg/Kg. See Figure 4. "Site Details and Confirmation Soil Sample Location Map" and Table 1. for confirmation analytical results. See Appendix D for Laboratory Analytical Results.

Due to excavation and confirmation sampling extending past the initial ninety (90) days of closure, an extension was requested by Plains on August 28, 2020 which was granted on August 28, 2020. See Appendix A for C-141 Form and Extension Request.

5. Soil Disposal and Site Restoration

Plains was onsite the week of September 28, 2020 to remove the impacted soils offsite for disposal, backfill the excavation with locally sourced non-impacted soils, and bring site back to natural grade. Approximately 120 cubic yards of hydrocarbon impacted soils were transported offsite for disposal at Lazy Ace Land Farm, LLC in Eunice, New Mexico with waste manifests available upon request.

6. Closure Request

Based upon the analytical results of the requisite confirmation soil samples collected from the base and side walls of the excavation, the site has been remediated to within standards set by the NMOCD. In addition, the site was backfilled with locally sourced non-impacted soils and brought up to grade. Consequently, Plains respectfully requests site closure.

If you have any questions, or if additional information is required, please feel free to contact Amber Groves (email: ALGroves@paalp.com, cell: 575.200.5517) of Plains or Elizabeth Stuart (email: elizabethstuart@deandigs.com, cell: 432.227.5369) or Jeff Kindley (email: jeffreykindley@deandigs.com cell: 432.230.0920) of Dean.

Sincerely,



Elizabeth Stuart

Project Manager



Jeffrey Kindley, PG.

Professional Geologist



TABLE



Chemistry Table 1
Concentrations of Benzene, BTEX, Chlorides, and TPH in soil
Plains Pipeline, L.P.
XTO Perla Verde Release
Lea County, New Mexico
SRS #2020-051

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)
CS-1 @6"	06/17/20	6 in	Composite	soil	<0.00101	0.00752	0.0247	0.107	0.0402	198	276	4,200	4,476	604	5,080
CS-1 @6"	08/25/20	6 in	Composite	soil	-	-	-	-	-	-	<25.3	238	238	40.7	278.7
CS-2 @6"	06/17/20	6 in	Composite	soil	0.00203	0.0249	0.0298	0.106	0.031	27.8	33.6	188	221.6	33.2	254.8
CS-3 @6"	06/17/20	6 in	Composite	soil	0.00177	<0.00676	0.0393	0.153	0.0618	55.8	40.4	293	333.4	52.6	386
CS-4 @6"	06/17/20	6 in	Composite	soil	<0.00115	<0.00575	0.00645	0.03673	0.04318	109	<28.7	140	140	<28.7	140
CS-5 @6"	06/17/20	6 in	Composite	soil	<0.00103	0.00772	0.00652	0.03246	0.0467	103	52.3	827	879.3	147	1,026.3
CS-6 @6"	06/17/20	6 in	Composite	soil	0.0021	0.0381	0.0878	0.3482	0.4762	78.1	380	2,590	2,970	441	3,411
CS-6 @6"	08/25/20	6 in	Composite	soil	-	-	-	-	-	-	<25.0	26.4	26.4	<25.0	26
CS-7 @6"	06/17/20	6 in	Composite	soil	<0.00104	<0.00521	<0.00521	0.0185	0.0185	38.3	<26.0	172	172	47.8	219.8
CS-8 @6"	06/17/20	6 in	Composite	soil	<0.00103	<0.00515	<0.00515	<0.00515	<0.00515	27.6	<25.8	29.8	29.8	<25.8	29.8
CS-9 @6"	06/17/20	6 in	Composite	soil	0.00105	0.0145	0.0306	0.1456	0.19175	39.7	77.3	637	714.3	91.8	806.1
CS-10 @6"	06/17/20	6 in	Composite	soil	0.00271	0.0277	0.0602	0.2695	0.36011	38.3	68.4	485	553.4	78.9	632.3
CS-11 @6"	06/17/20	6 in	Composite	soil	<0.00104	<0.00521	<0.00521	0.00764	0.00764	45.2	<26.0	93.8	93.8	<26.0	93.8
CS-12 @6"	06/17/20	6 in	Composite	soil	0.00393	0.0187	0.053	0.2663	0.34193	15.7	75.5	485	560.5	71.5	632
CS-13 @2'	06/19/20	2 ft	Composite	soil	0.0245	0.0561	0.0542	0.31	0.4448	10.3	95.3	545	640.3	85.5	725.8
Pad North SW 6"	06/19/20	6 in	Composite	soil	<0.00101	<0.00505	<0.00505	0.00996	0.00996	238	258	5,270	5,528	512	6,040
Pad North SW 6"	08/25/20	6 in	Composite	soil	-	-	-	-	-	-	45.9	1,860	1,906	329	2,234.9
Pad North SW 6"	09/25/20	6 in	Composite	soil	-	-	-	-	-	-	<26.0	30.2	30.2	<26.0	30.2
Pad West SW 6"	06/19/20	6 in	Composite	soil	0.00547	0.0115	0.00811	0.0436	0.06868	209	181	3,120	3,301	477	3,778
Pad West SW 6"	08/25/20	6 in	Composite	soil	-	-	-	-	-	-	<25.3	801	801	141	942
Pad South SW 6"	06/19/20	6 in	Composite	soil	0.00429	0.00841	<0.00510	0.02321	0.03591	137	68.5	1,880	1,948.5	330	2,278.5
Pad South SW 6"	08/25/20	6 in	Composite	soil	-	-	-	-	-	-	<25.3	68.2	68.2	38.7	106.9
Pad East SW 6"	06/19/20	6 in	Composite	soil	0.00215	0.0227	0.086	0.3351	0.44595	133	949	7,410	8,359	613	8,972
Pad East SW 6"	08/25/20	6 in	Composite	soil	-	-	-	-	-	-	<25.5	315	315	69.8	384.8
LACT North SW 1'	06/19/20	1 ft	Composite	soil	0.0509	0.0988	0.1	0.3658	0.6155	16.2	208	2,360	2,568	365	2,933
LACT North SW 1'	08/25/20	1 ft	Composite	soil	-	-	-	-	-	-	<25.0	262	262	43.8	305.8
LACT South SW 1'	06/19/20	1 ft	Composite	soil	0.0211	0.0938	0.111	0.3867	0.6126	11.8	212	1,770	1,982	278	2,260
LACT South SW 1'	08/25/20	1 ft	Composite	soil	-	-	-	-	-	-	<25.3	<25.3	<25.3	<25.3	<25.3
LACT East SW 1'	06/19/20	1 ft	Composite	soil	<0.00101	0.00402	0.00205	0.00964	0.01571	23.5	<25.3	120	120	27.0	147
LACT West SW 1'	06/19/20	1 ft	Composite	soil	0.00166	0.00141	0.00101	0.0058	0.00988	9.21	26.5	454	480.5	74.7	555.2
NMOCD Recommended Remediation Action Level					10	-	-	-	50	10,000	-	-	1,000	-	2,500

Exceeds NMOCD Level

FIGURES

Figure 1

Site Location Map

Plains Pipeline LLC

XTO Perla Verde Release

SRS: 2020-51

GPS: 32.613367, -103.496006

Lea County, NM



DEAN

Figure 2

Topographic Map

Plains Pipeline LLC

XTO Perla Verde Release

SRS: 2020-51

GPS: 32.613367, -103.496006

Lea County, NM

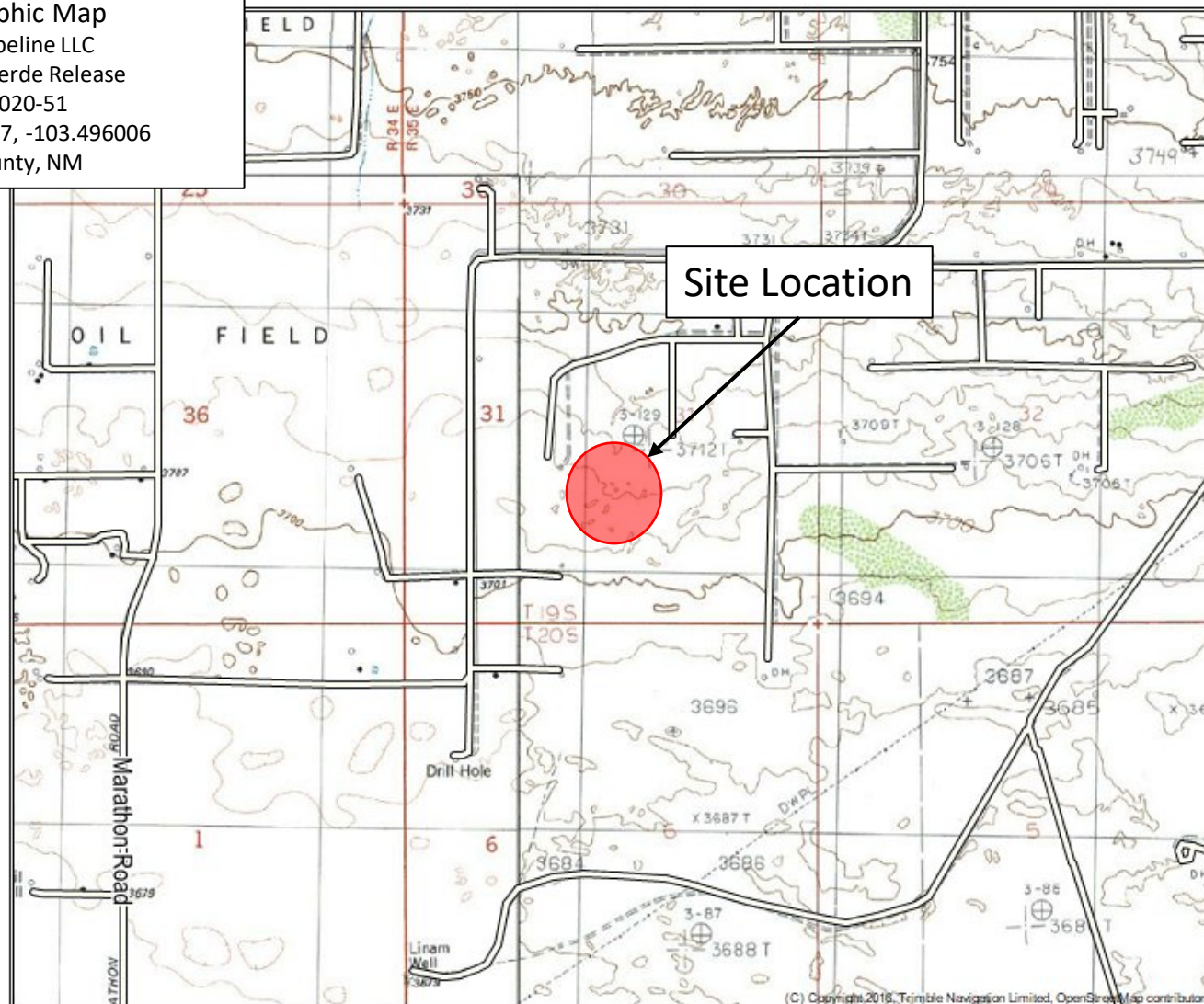


Figure 3

Karst Topography Map
Plains Pipeline LLC
XTO Perla Verde Release
SRS: 2020-51
GPS: 32.613367, -103.496006
Lea County, NM

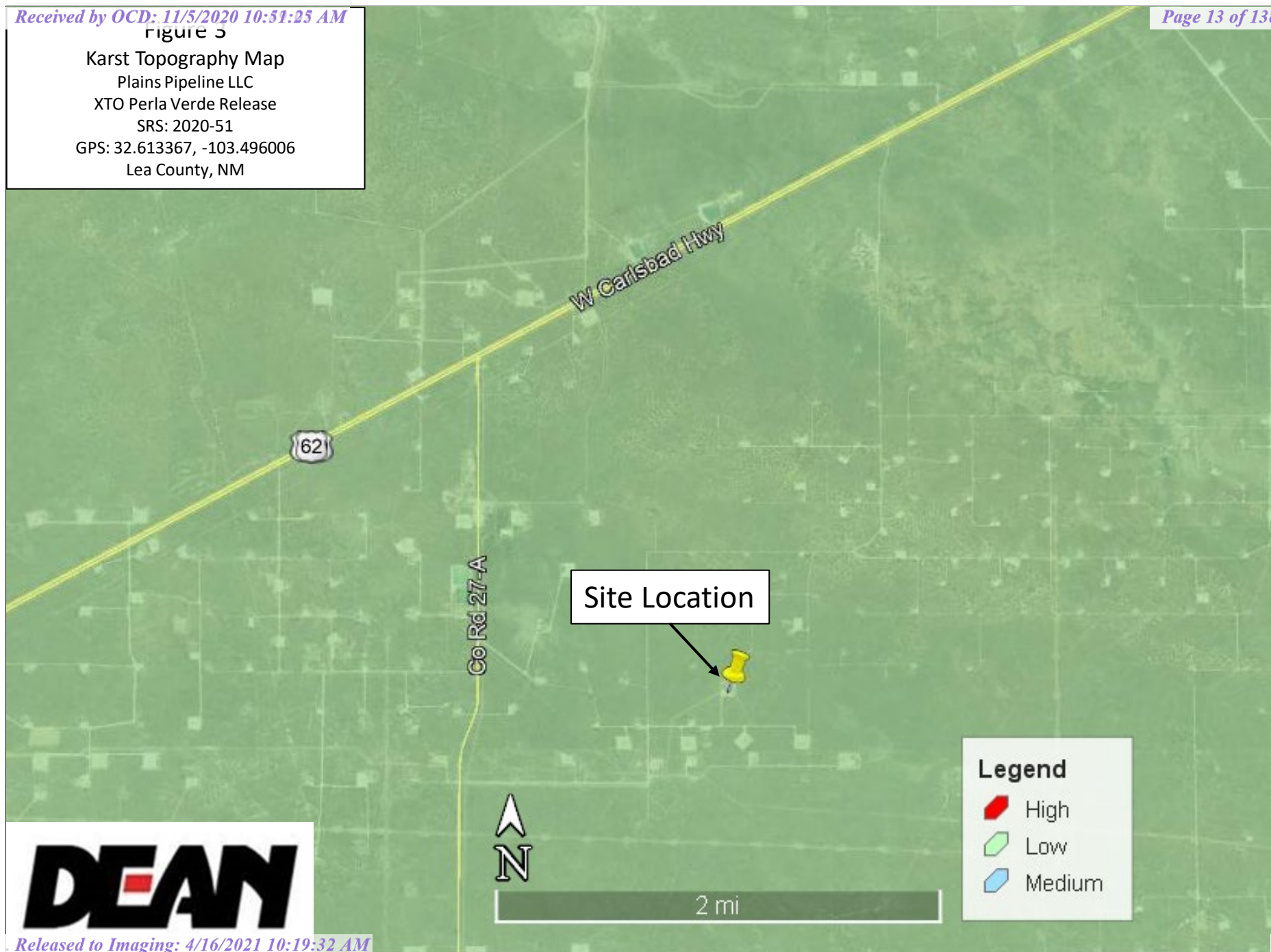


Figure 4

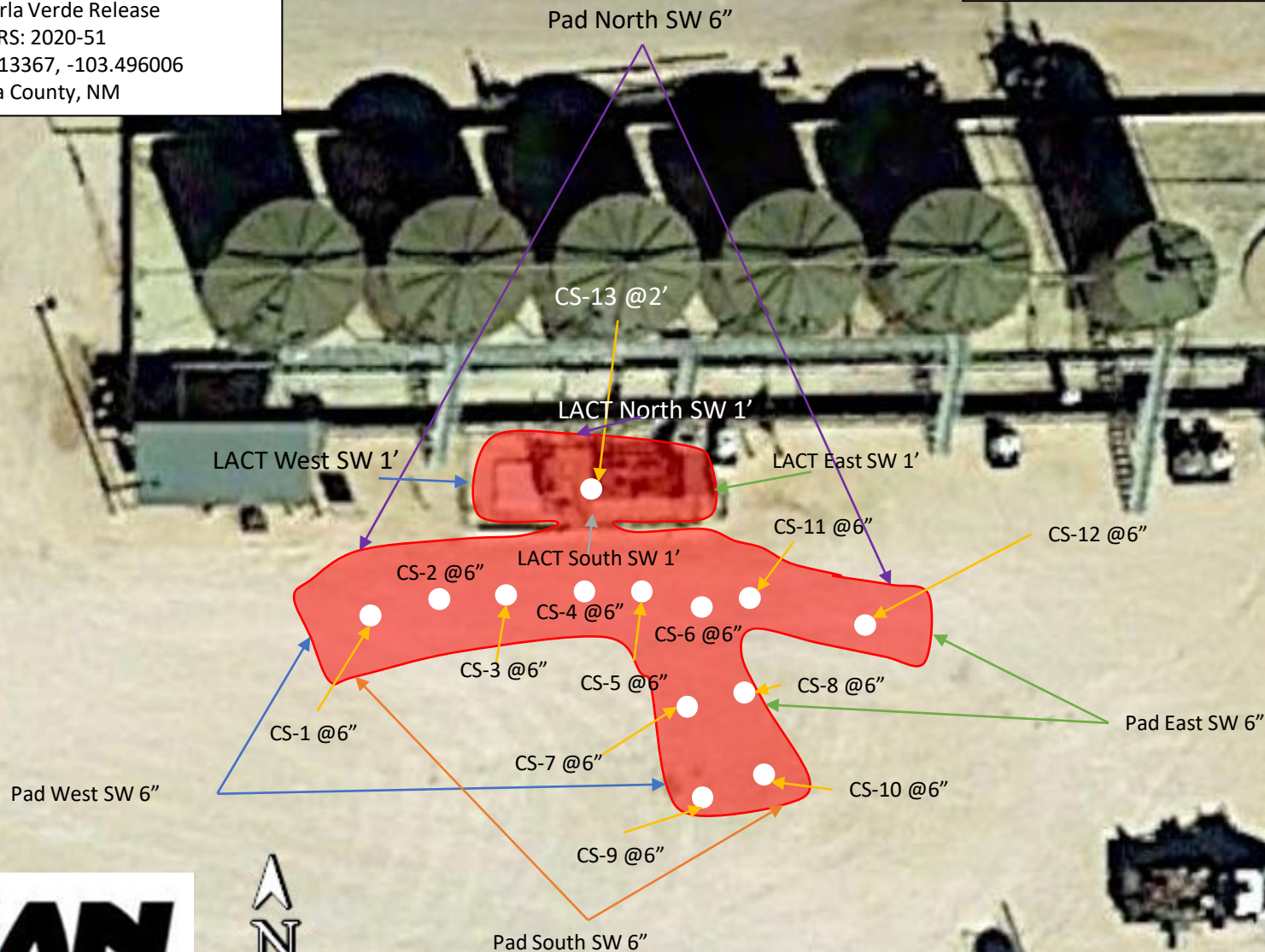
Site Details and Confirmation Soil
Sample Location Map
Plains Pipeline LLC
XTO Perla Verde Release
SRS: 2020-51
GPS: 32.613367, -103.496006
Lea County, NM

Legend

Initial Release area & Excavation Area:



Proposed Sample Point:



100 ft

DEAN

APPENDIX A
NMOCD C-141 FORM AND EXTENSION REQUEST

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	NRM2015337417
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Plains Pipeline, 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 577 US HWY 385 N Seminole, TX 79360	

Location of Release Source

Latitude 32.613367

Longitude -103.496006

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Plains XTO Perla Verde 31 State #002H	Site Type LACT Unit
Date Release Discovered 5/23/2020 @ 10:32 AM	API# (if applicable)

Unit Letter	Section	Township	Range	County
O	31	19S	35E	Lea

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)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 10 bbls	Volume Recovered (bbls) 9 bbls
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Air eliminator failure resulting in an approximate release of 10 bbls of crude oil.

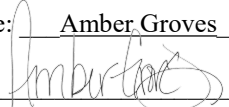
State of New Mexico
Oil Conservation Division

Incident ID	NRM2015337417
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: <u>Amber Groves</u>	Title: <u>Remediation Coordinator</u>
Signature: <u></u>	Date: _____
email: <u>algroves@paalp.com</u>	Telephone: <u>(575)200-5517</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>6/1/2020</u>

NRM2015337417

Amber L Groves

From: Tommy J Bacon
Sent: Thursday, May 28, 2020 12:35 PM
To: Amber L Groves
Subject: Spill Calculations for Perla Verde CTB

20' X 20' X 1.5 X 0.0154 = 10.7BBLS

Tommy Bacon
District Manager
Southwest Division PPW
575-200-8025
tjbacon@paalp.com

From: [Hamlet, Robert, EMNRD](#)
To: ["Amber L Groves"](#)
Cc: [Bratcher, Mike, EMNRD](#); ["Sylwia Reynolds"](#); [Venegas, Victoria, EMNRD](#); [Eads, Cristina, EMNRD](#)
Subject: RE: NRM2015337417 Plains XTO Perla Verde Extension Request
Date: Tuesday, September 15, 2020 9:43:00 AM

RE: Incident #**NRM2015337417**

Amber,

Your request for an extension to **October 28th, 2020** is approved. Plains requests a 60 day extension for NRM2015337417 Plains XTO Perla Verde. The initial C-141 was filed on the OCD portal on May 28th. Plains has endeavored to complete remediation activities within 90 days, however excavation and confirmation sampling has taken longer than expected.

Thank you,

Robert J Hamlet
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 748-1283
Robert.Hamlet@state.nm.us

From: Amber L Groves <ALGroves@paalp.com>
Sent: Friday, August 28, 2020 11:24 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; 'Sylwia Reynolds' <Sylwiareynolds@deandigs.com>
Subject: [EXT] NRM2015337417 Plains XTO Perla Verde Extension Request

Good Morning,

Plains respectfully requests a 60 day extension for NRM2015337417 Plains XTO Perla Verde. The initial C-141 was filed on the OCD portal on May 28th. Plains has endeavored to complete remediation activities within 90 days, however excavation and confirmation sampling has taken longer than expected. 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*

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.

APPENDIX B
OSE GROUND WATER DATA



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 04157	3	3	06	20S	35E	640483	3607561*	

Driller License: 208	Driller Company: VAN NOY, W.L.	
Driller Name:		
Drill Start Date: 12/12/1959	Drill Finish Date: 12/13/1959	Plug Date:
Log File Date: 12/18/1959	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 5.00	Depth Well: 70 feet	Depth Water: 64 feet

Water Bearing Stratifications:	Top	Bottom	Description
	65	68	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom	
	50	70	

*UTM location was derived from PLSS - see Help

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

5/27/20 1:52 PM

POINT OF DIVERSION SUMMARY

APPENDIX C

SITE PHOTOGRAPHIC DOCUMENTATION



PP-2062 Plains XTO Perla Verde Release
SRS 2020-051

Photograph No 1.

Date: May 27, 2020

Direction: East

Description: View of release area.



Photograph No 2.

Date: May 27, 2020

Direction: North

Description: View of release area.



PP-2062 Plains XTO Perla Verde Release
SRS 2020-051**Photograph No 3.**

Date: May 27, 2020

Direction: West

Description: View of release area.

**Photograph No 4.**

Date: May 27, 2020

Direction: Northwest

Description: View of release area.



PP-2062 Plains XTO Perla Verde Release
SRS 2020-051**Photograph No 5.**

Date: June 17, 2020

Direction: East

Description: View of excavation activities.

**Photograph No 6.**

Date: June 17, 2020

Direction: Southeast

Description: View of excavation activities.





PP-2062 Plains XTO Perla Verde Release
SRS 2020-051

Photograph No 7.

Date: August 19, 2020

Direction: Southeast

Description: View of excavation activities.



Photograph No 8.

Date: August 19, 2020

Direction: Southeast

Description: View of excavation activities.





PP-2062 Plains XTO Perla Verde Release
SRS 2020-051

Photograph No 9.

Date: September 25, 2020

Direction: Southeast

Description: View of excavation activities.



Photograph No 10.

Date: September 28, 2020

Direction: Northwest

Description: View of excavation activities.





PP-2062 Plains XTO Perla Verde Release
SRS 2020-051

Photograph No 11.

Date: October 5, 2020

Direction: Northeast

Description: View of area post backfill activities.



Photograph No 12.

Date: October 5, 2020

Direction: North

Description: View of area post backfill activities.





PP-2062 Plains XTO Perla Verde Release
SRS 2020-051

Photograph No 13.

Date: October 5, 2020

Direction: West

Description: View of area post backfill activities.



Photograph No 14.

Date: October 5, 2020

Direction: Northeast

Description: View of area post backfill activities.





PP-2062 Plains XTO Perla Verde Release
SRS 2020-051

Photograph No 15.

Date: October 5, 2020

Direction: East

Description: View of area post backfill activities.



Photograph No 16.

Date: October 5, 2020

Direction: Northwest

Description: View of area post backfill activities.



APPENDIX D

LABORATORY ANALYTICAL REPORTS

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



Analytical Report

Prepared for:

Sylwia Reynolds
Dean
12600 W County Rd 91
Midland, TX 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Location: Lea County, New Mexico
Lab Order Number: 0F23004



NELAP/TCEQ # T104704516-17-8

Report Date: 07/09/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-1 (6")	0F23004-01	Soil	06/17/20 12:23	06-23-2020 07:40
CS-2 (6")	0F23004-02	Soil	06/17/20 12:25	06-23-2020 07:40
CS-3 (6")	0F23004-03	Soil	06/17/20 12:30	06-23-2020 07:40
CS-4 (6")	0F23004-04	Soil	06/17/20 12:35	06-23-2020 07:40
CS-5 (6")	0F23004-05	Soil	06/17/20 12:37	06-23-2020 07:40
CS-6 (6")	0F23004-06	Soil	06/17/20 12:40	06-23-2020 07:40
CS-7 (6")	0F23004-07	Soil	06/17/20 12:42	06-23-2020 07:40
CS-8 (6")	0F23004-08	Soil	06/17/20 13:38	06-23-2020 07:40
CS-9 (6")	0F23004-09	Soil	06/17/20 13:43	06-23-2020 07:40
CS-10 (6")	0F23004-10	Soil	06/17/20 13:48	06-23-2020 07:40
CS-11 (6")	0F23004-11	Soil	06/17/20 13:50	06-23-2020 07:40
CS-12 (6")	0F23004-12	Soil	06/17/20 13:55	06-23-2020 07:40
CS-13 (6")	0F23004-13	Soil	06/17/20 14:58	06-23-2020 07:40
Pad North SW 6"	0F23004-14	Soil	06/19/20 14:10	06-23-2020 07:40
Pad West SW 6"	0F23004-15	Soil	06/19/20 15:10	06-23-2020 07:40
Pad South SW 6"	0F23004-16	Soil	06/19/20 15:25	06-23-2020 07:40
Pad East SW 6"	0F23004-17	Soil	06/19/20 15:20	06-23-2020 07:40
Lact North SW 1'	0F23004-18	Soil	06/19/20 15:00	06-23-2020 07:40
Lact South SW 1'	0F23004-19	Soil	06/19/20 14:10	06-23-2020 07:40
Lact East SW 1'	0F23004-20	Soil	06/19/20 14:00	06-23-2020 07:40
Lact West SW 1'	0F23004-21	Soil	06/19/20 14:15	06-23-2020 07:40

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

CS-1 (6")
0F23004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0F2408	06/24/20	06/24/20	EPA 8021B
Toluene	0.00752	0.00505	mg/kg dry	1	P0F2408	06/24/20	06/24/20	EPA 8021B
Ethylbenzene	0.0247	0.00505	mg/kg dry	1	P0F2408	06/24/20	06/24/20	EPA 8021B
Xylene (p/m)	0.107	0.00505	mg/kg dry	1	P0F2408	06/24/20	06/24/20	EPA 8021B
Xylene (o)	0.0402	0.00505	mg/kg dry	1	P0F2408	06/24/20	06/24/20	EPA 8021B
Surrogate: 4-Bromofluorobenzene		93.0 %	75-125		P0F2408	06/24/20	06/24/20	EPA 8021B
Surrogate: 1,4-Difluorobenzene		97.6 %	75-125		P0F2408	06/24/20	06/24/20	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	198	1.01	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0
% Moisture	1.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	276	25.3	mg/kg dry	1	P0F2305	06/23/20	06/23/20	TPH 8015M
>C12-C28	4200	25.3	mg/kg dry	1	P0F2305	06/23/20	06/23/20	TPH 8015M
>C28-C35	604	25.3	mg/kg dry	1	P0F2305	06/23/20	06/23/20	TPH 8015M
Surrogate: 1-Chlorooctane		118 %	70-130		P0F2305	06/23/20	06/23/20	TPH 8015M
Surrogate: o-Terphenyl		107 %	70-130		P0F2305	06/23/20	06/23/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	5080	25.3	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

CS-2 (6")
0F23004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.00203	0.00108	mg/kg dry	1	P0F2408	06/24/20	06/25/20	EPA 8021B	
Toluene	0.0249	0.00538	mg/kg dry	1	P0F2408	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	0.0298	0.00538	mg/kg dry	1	P0F2408	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.106	0.00538	mg/kg dry	1	P0F2408	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	0.0310	0.00538	mg/kg dry	1	P0F2408	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.2 %	75-125		P0F2408	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		95.0 %	75-125		P0F2408	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	27.8	1.08	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	33.6	26.9	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C12-C28	188	26.9	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C28-C35	33.2	26.9	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		92.6 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		100 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	255	26.9	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

CS-3 (6")
0F23004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.00177	0.00135	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	ND	0.00676	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	0.0393	0.00676	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.153	0.00676	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	0.0618	0.00676	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		61.3 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		98.5 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	55.8	1.35	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	26.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	40.4	33.8	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C12-C28	293	33.8	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C28-C35	52.6	33.8	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	386	33.8	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

CS-4 (6")
0F23004-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00115	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	ND	0.00575	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	0.00645	0.00575	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.0276	0.00575	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	0.00913	0.00575	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.7 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.1 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	109	1.15	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C12-C28	140	28.7	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	140	28.7	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

CS-5 (6")
0F23004-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	0.00772	0.00515	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	0.00652	0.00515	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.0257	0.00515	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	0.00676	0.00515	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.6 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.8 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	103	1.03	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	52.3	25.8	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C12-C28	827	25.8	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C28-C35	147	25.8	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1030	25.8	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

CS-6 (6")
0F23004-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.00210	0.00103	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	0.0381	0.00515	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	0.0878	0.00515	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.262	0.00515	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	0.0862	0.00515	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		63.7 %		75-125	P0F2409	06/24/20	06/25/20	EPA 8021B	S-GC
<i>Surrogate: 1,4-Difluorobenzene</i>		95.9 %		75-125	P0F2409	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	78.1	1.03	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	380	25.8	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C12-C28	2590	25.8	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C28-C35	441	25.8	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		104 %		70-130	P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		113 %		70-130	P0F2307	06/23/20	06/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3410	25.8	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

CS-7 (6")
0F23004-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	ND	0.00521	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	ND	0.00521	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.0185	0.00521	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	ND	0.00521	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.6 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.6 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	38.3	1.04	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C12-C28	172	26.0	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C28-C35	47.8	26.0	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	220	26.0	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

CS-8 (6")
0F23004-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	ND	0.00515	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	ND	0.00515	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	ND	0.00515	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	ND	0.00515	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.9 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.2 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	27.6	1.03	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C12-C28	29.8	25.8	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	29.8	25.8	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

CS-9 (6")
0F23004-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.00105	0.00105	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	0.0145	0.00526	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	0.0306	0.00526	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.115	0.00526	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	0.0306	0.00526	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.0 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	39.7	1.05	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	77.3	26.3	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C12-C28	637	26.3	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C28-C35	91.8	26.3	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		111 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		116 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	806	26.3	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

CS-10 (6")
0F23004-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.00271	0.00104	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	0.0277	0.00521	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	0.0602	0.00521	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.206	0.00521	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	0.0635	0.00521	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		95.6 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		68.9 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	38.3	1.04	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	68.4	26.0	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C12-C28	485	26.0	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C28-C35	78.9	26.0	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		112 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		117 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	633	26.0	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

CS-11 (6")
0F23004-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	ND	0.00521	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	ND	0.00521	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.00764	0.00521	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	ND	0.00521	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.0 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.2 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	45.2	1.04	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C12-C28	93.8	26.0	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	93.8	26.0	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

CS-12 (6")
0F23004-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.00393	0.00116	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	0.0187	0.00581	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	0.0530	0.00581	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.198	0.00581	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	0.0683	0.00581	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		92.9 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		64.9 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.7	1.16	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	14.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	75.5	29.1	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C12-C28	485	29.1	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C28-C35	71.5	29.1	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		115 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		120 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	632	29.1	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

CS-13 (6")
0F23004-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.0245	0.00108	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	0.0561	0.00538	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	0.0542	0.00538	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.183	0.00538	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	0.127	0.00538	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		100 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		69.4 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	10.3	1.08	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	95.3	26.9	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C12-C28	545	26.9	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C28-C35	85.5	26.9	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		118 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		121 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	726	26.9	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

Pad North SW 6"
0F23004-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	ND	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	ND	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.00996	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	ND	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.9 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	238	1.01	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	258	126	mg/kg dry	5	P0F2307	06/23/20	06/25/20	TPH 8015M	
>C12-C28	5270	126	mg/kg dry	5	P0F2307	06/23/20	06/25/20	TPH 8015M	
>C28-C35	512	126	mg/kg dry	5	P0F2307	06/23/20	06/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0F2307	06/23/20	06/25/20	TPH 8015M	
Surrogate: o-Terphenyl		91.4 %	70-130		P0F2307	06/23/20	06/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	6040	126	mg/kg dry	5	[CALC]	06/23/20	06/25/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

Pad West SW 6"
0F23004-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.00547	0.00101	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	0.0115	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	0.00811	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.0326	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	0.0110	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		96.6 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		91.8 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	209	1.01	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	181	25.3	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C12-C28	3120	25.3	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C28-C35	477	25.3	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		117 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		118 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3780	25.3	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

Pad South SW 6"
0F23004-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.00429	0.00102	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	0.00841	0.00510	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	ND	0.00510	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.0181	0.00510	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	0.00511	0.00510	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		88.4 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.6 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	137	1.02	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	68.5	25.5	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C12-C28	1880	25.5	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C28-C35	330	25.5	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2280	25.5	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

Pad East SW 6''
0F23004-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.00215	0.00101	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	0.0227	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	0.0860	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.244	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	0.0911	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		63.7 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	S-GC
<i>Surrogate: 1,4-Difluorobenzene</i>		103 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	133	1.01	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	949	126	mg/kg dry	5	P0F2307	06/23/20	06/25/20	TPH 8015M	
>C12-C28	7410	126	mg/kg dry	5	P0F2307	06/23/20	06/25/20	TPH 8015M	
>C28-C35	613	126	mg/kg dry	5	P0F2307	06/23/20	06/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		94.8 %	70-130		P0F2307	06/23/20	06/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		94.9 %	70-130		P0F2307	06/23/20	06/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	8970	126	mg/kg dry	5	[CALC]	06/23/20	06/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

Lact North SW 1'
0F23004-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.0509	0.00101	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	0.0988	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	0.100	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.275	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	0.0908	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		64.9 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	S-GC
<i>Surrogate: 1,4-Difluorobenzene</i>		96.4 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	16.2	1.01	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	208	25.3	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C12-C28	2360	25.3	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
>C28-C35	365	25.3	mg/kg dry	1	P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		117 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		125 %	70-130		P0F2307	06/23/20	06/23/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2940	25.3	mg/kg dry	1	[CALC]	06/23/20	06/23/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

Lact South SW 1'
0F23004-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.0211	0.00101	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	0.0938	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	0.111	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	0.291	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	0.0957	0.00505	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		102 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		74.2 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	11.8	1.01	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	212	25.3	mg/kg dry	1	P0F2307	06/23/20	06/24/20	TPH 8015M	
>C12-C28	1770	25.3	mg/kg dry	1	P0F2307	06/23/20	06/24/20	TPH 8015M	
>C28-C35	278	25.3	mg/kg dry	1	P0F2307	06/23/20	06/24/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		123 %	70-130		P0F2307	06/23/20	06/24/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		127 %	70-130		P0F2307	06/23/20	06/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2250	25.3	mg/kg dry	1	[CALC]	06/23/20	06/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

Lact East SW 1'
0F23004-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Toluene	0.00402	0.00101	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Ethylbenzene	0.00205	0.00101	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Xylene (p/m)	0.00735	0.00202	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Xylene (o)	0.00229	0.00101	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	75-125		P0G0105	07/01/20	07/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.6 %	75-125		P0G0105	07/01/20	07/01/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	23.5	1.01	mg/kg dry	1	P0F2403	06/24/20	06/24/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0F2307	06/23/20	06/24/20	TPH 8015M	
>C12-C28	120	25.3	mg/kg dry	1	P0F2307	06/23/20	06/24/20	TPH 8015M	
>C28-C35	27.0	25.3	mg/kg dry	1	P0F2307	06/23/20	06/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		119 %	70-130		P0F2307	06/23/20	06/24/20	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P0F2307	06/23/20	06/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	147	25.3	mg/kg dry	1	[CALC]	06/23/20	06/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

Lact West SW 1'
0F23004-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.00166	0.00100	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Toluene	0.00141	0.00100	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	0.00101	0.00100	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	0.00395	0.00200	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	0.00185	0.00100	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		92.4 %	75-125		P0F2905	06/29/20	06/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		89.2 %	75-125		P0F2905	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.21	1.00	mg/kg dry	1	P0F2403	06/24/20	06/24/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	26.5	25.0	mg/kg dry	1	P0F2307	06/23/20	06/24/20	TPH 8015M	
>C12-C28	454	25.0	mg/kg dry	1	P0F2307	06/23/20	06/24/20	TPH 8015M	
>C28-C35	74.7	25.0	mg/kg dry	1	P0F2307	06/23/20	06/24/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		118 %	70-130		P0F2307	06/23/20	06/24/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		124 %	70-130		P0F2307	06/23/20	06/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	555	25.0	mg/kg dry	1	[CALC]	06/23/20	06/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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
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Batch P0F2408 - General Preparation (GC)**Blank (P0F2408-BLK1)**

Prepared & Analyzed: 06/24/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.00500	"							
Xylene (o)	ND	0.00500	"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.3	75-125			

LCS (P0F2408-BS1)

Prepared & Analyzed: 06/24/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	70-130			
Toluene	0.100	0.00500	"	0.100		100	70-130			
Ethylbenzene	0.103	0.00500	"	0.100		103	70-130			
Xylene (p/m)	0.209	0.00500	"	0.200		105	70-130			
Xylene (o)	0.112	0.00500	"	0.100		112	70-130			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.2	75-125			

LCS Dup (P0F2408-BSD1)

Prepared & Analyzed: 06/24/20

Benzene	0.105	0.00100	mg/kg wet	0.100		105	70-130	4.05	20	
Toluene	0.104	0.00500	"	0.100		104	70-130	3.73	20	
Ethylbenzene	0.101	0.00500	"	0.100		101	70-130	2.24	20	
Xylene (p/m)	0.217	0.00500	"	0.200		109	70-130	3.67	20	
Xylene (o)	0.115	0.00500	"	0.100		115	70-130	3.19	20	
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	75-125			

Calibration Check (P0F2408-CCV1)

Prepared & Analyzed: 06/24/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.102	0.00500	"	0.100		102	80-120			
Ethylbenzene	0.109	0.00500	"	0.100		109	80-120			
Xylene (p/m)	0.209	0.00500	"	0.200		104	80-120			
Xylene (o)	0.113	0.00500	"	0.100		113	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.1	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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
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Batch P0F2408 - General Preparation (GC)**Calibration Check (P0F2408-CCV2)**

Prepared & Analyzed: 06/24/20

Benzene	0.100	0.00100	mg/kg wet	0.100		100	80-120			
Toluene	0.111	0.00500	"	0.100		111	80-120			
Ethylbenzene	0.106	0.00500	"	0.100		106	80-120			
Xylene (p/m)	0.198	0.00500	"	0.200		99.0	80-120			
Xylene (o)	0.107	0.00500	"	0.100		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.4	75-125			

Calibration Check (P0F2408-CCV3)

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.102	0.00500	"	0.100		102	80-120			
Ethylbenzene	0.106	0.00500	"	0.100		106	80-120			
Xylene (p/m)	0.201	0.00500	"	0.200		100	80-120			
Xylene (o)	0.112	0.00500	"	0.100		112	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.0	75-125			

Matrix Spike (P0F2408-MS1)

Source: 0F23002-01

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.0946	0.00111	mg/kg dry	0.111	0.00890	77.2	80-120			QM-05
Toluene	0.0951	0.00556	"	0.111	0.0102	76.3	80-120			QM-05
Ethylbenzene	0.107	0.00556	"	0.111	ND	96.7	80-120			
Xylene (p/m)	0.188	0.00556	"	0.222	0.00749	81.2	80-120			
Xylene (o)	0.0931	0.00556	"	0.111	ND	83.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.133		98.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.134		"	0.133		100	75-125			

Matrix Spike Dup (P0F2408-MSD1)

Source: 0F23002-01

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.0934	0.00111	mg/kg dry	0.111	0.00890	76.1	80-120	1.44	20	QM-05
Toluene	0.0934	0.00556	"	0.111	0.0102	74.8	80-120	2.00	20	QM-05
Ethylbenzene	0.103	0.00556	"	0.111	ND	93.1	80-120	3.82	20	
Xylene (p/m)	0.184	0.00556	"	0.222	0.00749	79.5	80-120	2.09	20	QM-05
Xylene (o)	0.100	0.00556	"	0.111	ND	90.1	80-120	7.33	20	
Surrogate: 1,4-Difluorobenzene	0.128		"	0.133		96.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.133		94.9	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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
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Batch P0F2409 - General Preparation (GC)**Blank (P0F2409-BLK1)**

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.00500	"							
Xylene (o)	ND	0.00500	"							
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.7	75-125			

LCS (P0F2409-BS1)

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.106	0.00100	mg/kg wet	0.100		106	70-130			
Toluene	0.105	0.00500	"	0.100		105	70-130			
Ethylbenzene	0.112	0.00500	"	0.100		112	70-130			
Xylene (p/m)	0.213	0.00500	"	0.200		106	70-130			
Xylene (o)	0.114	0.00500	"	0.100		114	70-130			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.7	75-125			

LCS Dup (P0F2409-BS1)

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130	2.65	20	
Toluene	0.103	0.00500	"	0.100		103	70-130	2.02	20	
Ethylbenzene	0.112	0.00500	"	0.100		112	70-130	0.411	20	
Xylene (p/m)	0.211	0.00500	"	0.200		105	70-130	0.774	20	
Xylene (o)	0.113	0.00500	"	0.100		113	70-130	0.590	20	
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.8	75-125			

Calibration Check (P0F2409-CCV1)

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.102	0.00500	"	0.100		102	80-120			
Ethylbenzene	0.106	0.00500	"	0.100		106	80-120			
Xylene (p/m)	0.201	0.00500	"	0.200		100	80-120			
Xylene (o)	0.112	0.00500	"	0.100		112	80-120			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.6	75-125			

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Project Manager: Sylwia Reynolds

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Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F2409 - General Preparation (GC)**Calibration Check (P0F2409-CCV2)**

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.100	0.00100	mg/kg wet	0.100		100	80-120			
Toluene	0.0992	0.00500	"	0.100		99.2	80-120			
Ethylbenzene	0.104	0.00500	"	0.100		104	80-120			
Xylene (p/m)	0.196	0.00500	"	0.200		97.9	80-120			
Xylene (o)	0.108	0.00500	"	0.100		108	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.0	75-125			

Calibration Check (P0F2409-CCV3)

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.0990	0.00100	mg/kg wet	0.100		99.0	80-120			
Toluene	0.0970	0.00500	"	0.100		97.0	80-120			
Ethylbenzene	0.100	0.00500	"	0.100		100	80-120			
Xylene (p/m)	0.186	0.00500	"	0.200		92.9	80-120			
Xylene (o)	0.101	0.00500	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		84.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.8	75-125			

Matrix Spike (P0F2409-MS1)

Source: 0F23004-05

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.0869	0.00103	mg/kg dry	0.103	ND	84.3	80-120			
Toluene	0.0786	0.00515	"	0.103	0.00772	68.7	80-120			QM-05
Ethylbenzene	0.0863	0.00515	"	0.103	0.00652	77.4	80-120			QM-05
Xylene (p/m)	0.147	0.00515	"	0.206	0.0257	59.0	80-120			QM-05
Xylene (o)	0.0800	0.00515	"	0.103	0.00676	71.1	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.120		"	0.124		96.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.124		96.2	75-125			

Matrix Spike Dup (P0F2409-MSD1)

Source: 0F23004-05

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.0849	0.00103	mg/kg dry	0.103	ND	82.4	80-120	2.33	20	
Toluene	0.0771	0.00515	"	0.103	0.00772	67.2	80-120	2.18	20	QM-05
Ethylbenzene	0.0842	0.00515	"	0.103	0.00652	75.3	80-120	2.71	20	QM-05
Xylene (p/m)	0.137	0.00515	"	0.206	0.0257	54.0	80-120	8.89	20	QM-05
Xylene (o)	0.0726	0.00515	"	0.103	0.00676	63.9	80-120	10.6	20	QM-05
Surrogate: 1,4-Difluorobenzene	0.121		"	0.124		97.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.124		90.3	75-125			

Permian Basin Environmental Lab, L.P.

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Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F2905 - General Preparation (GC)**Blank (P0F2905-BLK1)**

Prepared: 06/29/20 Analyzed: 06/30/20

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	0.112		"	0.120		93.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.3	75-125			

LCS (P0F2905-BS1)

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.0984	0.00100	mg/kg wet	0.100		98.4	70-130			
Toluene	0.0950	0.00100	"	0.100		95.0	70-130			
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130			
Xylene (p/m)	0.197	0.00200	"	0.200		98.7	70-130			
Xylene (o)	0.103	0.00100	"	0.100		103	70-130			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		89.8	75-125			

LCS Dup (P0F2905-BS1)

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130	4.53	20	
Toluene	0.102	0.00100	"	0.100		102	70-130	7.31	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130	0.543	20	
Xylene (p/m)	0.207	0.00200	"	0.200		104	70-130	4.85	20	
Xylene (o)	0.109	0.00100	"	0.100		109	70-130	5.50	20	
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.4	75-125			

Calibration Blank (P0F2905-CCB1)

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.00		mg/kg wet							
Toluene	0.420		"							
Ethylbenzene	0.330		"							
Xylene (p/m)	0.530		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		87.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.7	75-125			

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Project Manager: Sylwia Reynolds

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Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F2905 - General Preparation (GC)**Calibration Blank (P0F2905-CCB2)**

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.00		mg/kg wet							
Toluene	0.770		"							
Ethylbenzene	0.620		"							
Xylene (p/m)	1.12		"							
Xylene (o)	0.470		"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		92.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.8	75-125			

Calibration Blank (P0F2905-CCB3)

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.00		mg/kg wet							
Toluene	0.410		"							
Ethylbenzene	0.400		"							
Xylene (p/m)	1.03		"							
Xylene (o)	0.390		"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.6	75-125			

Calibration Check (P0F2905-CCV1)

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	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)	0.210	0.00200	"	0.200		105	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		87.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.2	75-125			

Calibration Check (P0F2905-CCV2)

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.197	0.00200	"	0.200		98.5	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.8	75-125			

Permian Basin Environmental Lab, L.P.

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Project Manager: Sylwia Reynolds

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Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F2905 - General Preparation (GC)**Calibration Check (P0F2905-CCV3)**

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.0970	0.00100	"	0.100		97.0	80-120			
Ethylbenzene	0.0973	0.00100	"	0.100		97.3	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.6	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.5	75-125			

Matrix Spike (P0F2905-MS1)

Source: 0F26003-01

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.0778	0.00110	mg/kg dry	0.110	ND	70.8	80-120			QM-07
Toluene	0.0679	0.00110	"	0.110	ND	61.8	80-120			QM-07
Ethylbenzene	0.0606	0.00110	"	0.110	ND	55.2	80-120			QM-07
Xylene (p/m)	0.158	0.00220	"	0.220	ND	71.9	80-120			QM-07
Xylene (o)	0.0859	0.00110	"	0.110	ND	78.2	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.127		"	0.132		96.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.132		91.0	75-125			

Matrix Spike Dup (P0F2905-MSD1)

Source: 0F26003-01

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.0898	0.00110	mg/kg dry	0.110	ND	81.7	80-120	14.2	20	
Toluene	0.0809	0.00110	"	0.110	ND	73.6	80-120	17.4	20	QM-07
Ethylbenzene	0.0733	0.00110	"	0.110	ND	66.7	80-120	19.0	20	QM-07
Xylene (p/m)	0.179	0.00220	"	0.220	ND	81.4	80-120	12.4	20	
Xylene (o)	0.0977	0.00110	"	0.110	ND	88.9	80-120	12.8	20	
Surrogate: 4-Bromofluorobenzene	0.120		"	0.132		91.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.132		97.1	75-125			

Batch P0G0105 - General Preparation (GC)**Blank (P0G0105-BLK1)**

Prepared & Analyzed: 07/01/20

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	0.108		"	0.120		89.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.0	75-125			

Permian Basin Environmental Lab, L.P.

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0G0105 - General Preparation (GC)**LCS (P0G0105-BS1)**

Prepared & Analyzed: 07/01/20

Benzene	0.0939	0.00100	mg/kg wet	0.100		93.9	70-130			
Toluene	0.0924	0.00100	"	0.100		92.4	70-130			
Ethylbenzene	0.0952	0.00100	"	0.100		95.2	70-130			
Xylene (p/m)	0.188	0.00200	"	0.200		93.8	70-130			
Xylene (o)	0.0975	0.00100	"	0.100		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		89.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.7	75-125			

LCS Dup (P0G0105-BSD1)

Prepared & Analyzed: 07/01/20

Benzene	0.100	0.00100	mg/kg wet	0.100		100	70-130	6.53	20	
Toluene	0.100	0.00100	"	0.100		100	70-130	8.04	20	
Ethylbenzene	0.0981	0.00100	"	0.100		98.1	70-130	2.91	20	
Xylene (p/m)	0.204	0.00200	"	0.200		102	70-130	8.30	20	
Xylene (o)	0.109	0.00100	"	0.100		109	70-130	10.7	20	
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		92.0	75-125			

Calibration Blank (P0G0105-CCB1)

Prepared & Analyzed: 07/01/20

Benzene	0.00		mg/kg wet							
Toluene	0.470		"							
Ethylbenzene	0.320		"							
Xylene (p/m)	0.640		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.6	75-125			

Calibration Blank (P0G0105-CCB2)

Prepared & Analyzed: 07/01/20

Benzene	0.330		mg/kg wet							
Toluene	0.680		"							
Ethylbenzene	0.530		"							
Xylene (p/m)	3.19		"							
Xylene (o)	0.800		"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.4	75-125			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0G0105 - General Preparation (GC)**Calibration Blank (P0G0105-CCB3)**

Prepared: 07/01/20 Analyzed: 07/02/20

Benzene	0.00		mg/kg wet							
Toluene	0.940		"							
Ethylbenzene	0.830		"							
Xylene (p/m)	1.70		"							
Xylene (o)	0.690		"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.7	75-125			

Calibration Check (P0G0105-CCV1)

Prepared & Analyzed: 07/01/20

Benzene	0.0967	0.00100	mg/kg wet	0.100		96.7	80-120			
Toluene	0.0949	0.00100	"	0.100		94.9	80-120			
Ethylbenzene	0.0988	0.00100	"	0.100		98.8	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.4	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.8	75-125			

Calibration Check (P0G0105-CCV2)

Prepared & Analyzed: 07/01/20

Benzene	0.0981	0.00100	mg/kg wet	0.100		98.1	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.0969	0.00100	"	0.100		96.9	80-120			
Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120			
Xylene (o)	0.0996	0.00100	"	0.100		99.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.9	75-125			

Calibration Check (P0G0105-CCV3)

Prepared: 07/01/20 Analyzed: 07/02/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.6	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.5	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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
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Batch P0G0105 - General Preparation (GC)

Matrix Spike (P0G0105-MS1)		Source: 0G01013-06		Prepared: 07/01/20 Analyzed: 07/02/20						
Benzene	0.0887	0.00104	mg/kg dry	0.104	ND	85.1	80-120			
Toluene	0.0807	0.00104	"	0.104	0.00614	71.5	80-120			QM-10
Ethylbenzene	0.0840	0.00104	"	0.104	0.00539	75.5	80-120			QM-10
Xylene (p/m)	0.147	0.00208	"	0.208	0.0263	58.1	80-120			QM-10
Xylene (o)	0.0791	0.00104	"	0.104	0.0104	66.0	80-120			QM-10
Surrogate: 4-Bromofluorobenzene	0.109		"	0.125		87.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.125		97.5	75-125			

Matrix Spike Dup (P0G0105-MSD1)		Source: 0G01013-06		Prepared: 07/01/20 Analyzed: 07/02/20						
Benzene	0.0876	0.00104	mg/kg dry	0.104	ND	84.1	80-120	1.25	20	
Toluene	0.0790	0.00104	"	0.104	0.00614	69.9	80-120	2.29	20	QM-10
Ethylbenzene	0.0830	0.00104	"	0.104	0.00539	74.5	80-120	1.29	20	QM-10
Xylene (p/m)	0.146	0.00208	"	0.208	0.0263	57.4	80-120	1.20	20	QM-10
Xylene (o)	0.0800	0.00104	"	0.104	0.0104	66.8	80-120	1.24	20	QM-10
Surrogate: 4-Bromofluorobenzene	0.108		"	0.125		86.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.125		97.4	75-125			

Permian Basin Environmental Lab, L.P.

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Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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
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Batch P0F2310 - * DEFAULT PREP *******Blank (P0F2310-BLK1)**

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	ND	1.00	mg/kg wet							
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LCS (P0F2310-BS1)

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	407	1.00	mg/kg wet	400		102	80-120			
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LCS Dup (P0F2310-BSD1)

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	413	1.00	mg/kg wet	400		103	80-120	1.61	20	
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Calibration Check (P0F2310-CCV1)

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	20.1		mg/kg	20.0		100	0-200			
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Calibration Check (P0F2310-CCV2)

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	20.0		mg/kg	20.0		100	0-200			
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Matrix Spike (P0F2310-MS1)**Source: 0F23003-01**

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	623	1.04	mg/kg dry	521	168	87.4	80-120			
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Matrix Spike (P0F2310-MS2)**Source: 0F23004-10**

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	508	1.04	mg/kg dry	521	38.3	90.2	80-120			
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Matrix Spike Dup (P0F2310-MSD1)**Source: 0F23003-01**

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	598	1.04	mg/kg dry	521	168	82.5	80-120	4.10	20	
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Matrix Spike Dup (P0F2310-MSD2)**Source: 0F23004-10**

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	523	1.04	mg/kg dry	521	38.3	93.1	80-120	2.94	20	
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Batch P0F2401 - * DEFAULT PREP *******Blank (P0F2401-BLK1)**

Prepared & Analyzed: 06/24/20

% Moisture	ND	0.1	%							
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Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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
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Batch P0F2401 - * DEFAULT PREP *****

Duplicate (P0F2401-DUP1)	Source: 0F23004-13		Prepared & Analyzed: 06/24/20							
% Moisture	8.0	0.1	%		7.0			13.3	20	
Duplicate (P0F2401-DUP2)	Source: 0F23009-01		Prepared & Analyzed: 06/24/20							
% Moisture	14.0	0.1	%		13.0			7.41	20	
Duplicate (P0F2401-DUP3)	Source: 0F23009-14		Prepared & Analyzed: 06/24/20							
% Moisture	12.0	0.1	%		12.0			0.00	20	

Batch P0F2403 - * DEFAULT PREP *****

Blank (P0F2403-BLK1)	Prepared & Analyzed: 06/24/20									
Chloride	ND	1.00	mg/kg wet							
LCS (P0F2403-BS1)	Prepared & Analyzed: 06/24/20									
Chloride	420	1.00	mg/kg wet	400		105	80-120			
LCS Dup (P0F2403-BSD1)	Prepared & Analyzed: 06/24/20									
Chloride	404	1.00	mg/kg wet	400		101	80-120	3.88	20	
Calibration Check (P0F2403-CCV1)	Prepared & Analyzed: 06/24/20									
Chloride	18.9		mg/kg	20.0		94.4	0-200			
Calibration Check (P0F2403-CCV2)	Prepared: 06/24/20 Analyzed: 06/25/20									
Chloride	19.2		mg/kg	20.0		96.1	0-200			
Matrix Spike (P0F2403-MS1)	Source: 0F23004-20		Prepared & Analyzed: 06/24/20							
Chloride	503	1.01	mg/kg dry	505	23.5	94.9	80-120			

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Dean	Project: Plains: XTO Perla Verde	Fax:
12600 W County Rd 91	Project Number: PP-2062/SRS#2020-051	
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
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Batch P0F2403 - *** DEFAULT PREP ***

Matrix Spike Dup (P0F2403-MSD1)	Source: 0F23004-20			Prepared & Analyzed: 06/24/20						
Chloride	479	1.01	mg/kg dry	505	23.5	90.3	80-120	4.78	20	

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Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

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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
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Batch P0F2305 - TX 1005**Blank (P0F2305-BLK1)**

Prepared & Analyzed: 06/23/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	51.5		"	50.0		103	70-130			

LCS (P0F2305-BS1)

Prepared & Analyzed: 06/23/20

C6-C12	1100	25.0	mg/kg wet	1000		110	75-125			
>C12-C28	1200	25.0	"	1000		120	75-125			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	45.0		"	50.0		90.0	70-130			

LCS Dup (P0F2305-BSD1)

Prepared & Analyzed: 06/23/20

C6-C12	1100	25.0	mg/kg wet	1000		110	75-125	0.693	20	
>C12-C28	1220	25.0	"	1000		122	75-125	1.49	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	45.7		"	50.0		91.4	70-130			

Calibration Blank (P0F2305-CCB1)

Prepared & Analyzed: 06/23/20

C6-C12	10.7		mg/kg wet							
>C12-C28	9.85		"							
Surrogate: 1-Chlorooctane	95.7		"	100		95.7	70-130			
Surrogate: o-Terphenyl	48.6		"	50.0		97.1	70-130			

Calibration Blank (P0F2305-CCB2)

Prepared & Analyzed: 06/23/20

C6-C12	8.93		mg/kg wet							
>C12-C28	17.2		"							
Surrogate: 1-Chlorooctane	99.1		"	100		99.1	70-130			
Surrogate: o-Terphenyl	49.5		"	50.0		99.0	70-130			

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Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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
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Batch P0F2305 - TX 1005**Calibration Check (P0F2305-CCV1)**

Prepared & Analyzed: 06/23/20

C6-C12	512	25.0	mg/kg wet	500		102	85-115			
>C12-C28	542	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	98.3		"	100		98.3	70-130			
Surrogate: o-Terphenyl	44.0		"	50.0		88.1	70-130			

Calibration Check (P0F2305-CCV2)

Prepared & Analyzed: 06/23/20

C6-C12	507	25.0	mg/kg wet	500		101	85-115			
>C12-C28	527	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	98.5		"	100		98.5	70-130			
Surrogate: o-Terphenyl	43.7		"	50.0		87.5	70-130			

Matrix Spike (P0F2305-MS1)

Source: 0F22005-10

Prepared: 06/23/20 Analyzed: 06/24/20

C6-C12	1320	27.5	mg/kg dry	1100	13.4	119	75-125			
>C12-C28	1350	27.5	"	1100	22.2	121	75-125			
Surrogate: 1-Chlorooctane	135		"	110		123	70-130			
Surrogate: o-Terphenyl	55.7		"	54.9		101	70-130			

Matrix Spike Dup (P0F2305-MSD1)

Source: 0F22005-10

Prepared: 06/23/20 Analyzed: 06/24/20

C6-C12	1320	27.5	mg/kg dry	1100	13.4	119	75-125	0.104	20	
>C12-C28	1360	27.5	"	1100	22.2	122	75-125	1.00	20	
Surrogate: 1-Chlorooctane	135		"	110		123	70-130			
Surrogate: o-Terphenyl	57.3		"	54.9		104	70-130			

Batch P0F2307 - TX 1005**Blank (P0F2307-BLK1)**

Prepared & Analyzed: 06/23/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	53.7		"	50.0		107	70-130			

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Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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
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Batch P0F2307 - TX 1005**LCS (P0F2307-BS1)**

Prepared & Analyzed: 06/23/20

C6-C12	889	25.0	mg/kg wet	1000		88.9	75-125			
>C12-C28	1010	25.0	"	1000		101	75-125			
Surrogate: 1-Chlorooctane	96.2		"	100		96.2	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.5	70-130			

LCS Dup (P0F2307-BSD1)

Prepared & Analyzed: 06/23/20

C6-C12	902	25.0	mg/kg wet	1000		90.2	75-125	1.42	20	
>C12-C28	1010	25.0	"	1000		101	75-125	0.153	20	
Surrogate: 1-Chlorooctane	96.9		"	100		96.9	70-130			
Surrogate: o-Terphenyl	47.3		"	50.0		94.6	70-130			

Calibration Check (P0F2307-CCV1)

Prepared & Analyzed: 06/23/20

C6-C12	502	25.0	mg/kg wet	500		100	85-115			
>C12-C28	527	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	80.8		"	100		80.8	70-130			
Surrogate: o-Terphenyl	39.9		"	50.0		79.9	70-130			

Calibration Check (P0F2307-CCV2)

Prepared & Analyzed: 06/23/20

C6-C12	519	25.0	mg/kg wet	500		104	85-115			
>C12-C28	555	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	91.3		"	100		91.3	70-130			
Surrogate: o-Terphenyl	45.5		"	50.0		91.0	70-130			

Calibration Check (P0F2307-CCV3)

Prepared: 06/23/20 Analyzed: 06/24/20

C6-C12	531	25.0	mg/kg wet	500		106	85-115			
>C12-C28	545	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	96.4		"	100		96.4	70-130			
Surrogate: o-Terphenyl	48.1		"	50.0		96.2	70-130			

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Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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
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Batch P0F2307 - TX 1005

Matrix Spike (P0F2307-MS1)	Source: 0F23004-02			Prepared: 06/23/20		Analyzed: 06/24/20				
C6-C12	1090	26.9	mg/kg dry	1080	33.6	97.8	75-125			
>C12-C28	1310	26.9	"	1080	188	104	75-125			
Surrogate: 1-Chlorooctane	117		"	108		109	70-130			
Surrogate: o-Terphenyl	57.7		"	53.8		107	70-130			
Matrix Spike Dup (P0F2307-MSD1)	Source: 0F23004-02			Prepared: 06/23/20		Analyzed: 06/24/20				
C6-C12	1100	26.9	mg/kg dry	1080	33.6	99.1	75-125	1.29	20	
>C12-C28	1340	26.9	"	1080	188	107	75-125	2.18	20	
Surrogate: 1-Chlorooctane	119		"	108		111	70-130			
Surrogate: o-Terphenyl	58.4		"	53.8		109	70-130			

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Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-10 LCS/LCSD were analyzed in place of MS/MSD.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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:



Date:

7/9/2020

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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PO#: 2020-5

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PBB LAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-686-7235

Project Manager: Sylvia ReynoldsCompany Name: Dean ServicesCompany Address: 12600 WCE 61City/State/Zip: Midland, TXTelephone No: 432-230-0920Sampler Signature: Jeff Kindly

e-mail:

Sylvia ReynoldsKayla LongeneckerElizbeth StuartJeff KindlyProject Name: NTD Phase 2Project #: PD-2062Project Loc: Lee County, New MexicoPO #: 2020-051Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(Lab use only)
ORDER #:

Preservation & # of Containers

Matrix

TPH: TX 1005 TX 1006
Anions (Cl, SO4, Alkalinity)
BTEX 8021B 8030 or BTEX 8260
TPH 8015 m
Chlorides 4500

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: TX 1005 TX 1006

Anions (Cl, SO4, Alkalinity)

BTEX 8021B 8030 or BTEX 8260

TPH 8015 m

Chlorides 4500

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Special Instructions:

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B 8030 or BTEX 8260	TPH 8015 m	Chlorides 4500	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	CS-11 (6")	6"	6"	06/17/20	1350		1	✓												✓	✓	✓	✓	✓	✓
2	CS-12 (6")	6"	6"	06/17/20	1355		1	✓												✓	✓	✓	✓	✓	✓
3	CS-13 (6")	6"	6"	06/17/20	1458		1	✓												✓	✓	✓	✓	✓	✓
4	PAD North SW	6"	6"	06/19/20	1410		1	✓												✓	✓	✓	✓	✓	✓
5	PAD West SW	6"	6"	06/19/20	1510		1	✓												✓	✓	✓	✓	✓	✓
6	PAD South SW	6"	6"	06/19/20	1525		1	✓												✓	✓	✓	✓	✓	✓
7	PAD East SW	6"	6"	06/19/20	1520		1	✓												✓	✓	✓	✓	✓	✓
8	PAD North SW	6"	6"	06/19/20	1500		1	✓												✓	✓	✓	✓	✓	✓
9	PAD South SW	6"	6"	06/19/20	1410		1	✓												✓	✓	✓	✓	✓	✓
10	PAD East SW	6"	6"	06/19/20	1400		1	✓												✓	✓	✓	✓	✓	✓

Laboratory Comments:

Sample Containers intact?

VOCs Free of Headspace?

Labels on containers?

Custody seals on containers?

Sample Hand Delivered by Sampler/Client Rep?

Temperature Upon Receipt

Adjusted:

20710 3.0 CFCI



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706**

Phone: 432-686-7235

Project Manager: Sylvia Reynolds

Company Name Dean Services

Company Address: 12600 WCR 61

City/State/Zip: Midland, TX

Telephone No: 432-230-0920

Sampler Signature: Kindberg

Fax No:

e-mail:

Sylvia Reynolds
Kaylene Lange
Elizabeth Street
JST Kindly

Project Name: XTD Plains Pella Verde

Project #: PF-2062

Project Loc: La C. County NM

PO #: 2020-07

Report Format:

☒ Standard

TRIP

☐ NPDES

LAB # (lab use only)					
FIELD CODE					
Beginning Depth					
Ending Depth					
Date Sampled					
Time Sampled					
Field Filtered					
Total #. of Containers					
Ice					
HNO ₃					
HCl					
H ₂ SO ₄					
NaOH					
Na ₂ S ₂ O ₃					
None					
Other (Specify)					
DW=Drinking Water SL=Sludge					
GW = Groundwater S=Soil/Solid					
NP=Non-Potable Specify Other					
TPH: TX 1005 TX 1006					
Anions (Cl, SO ₄ , Alkalinity)					
BTEX 8021B/5030 or BTEX 8260					
TPH 8015 M					
Chloride 4500					
RUSH TAT (Pre-Schedule) 24, 48, 72 hrs					
Standard TAT					

ORDER #:	
(lab use only)	

Requisitioned by:	
Date	Time
Received by:	
Date	Time
Relinquished by:	
Date	Time
Received by PBEL:	
Date	Time

Special Instructions:	
Laboratory Comments:	
Sample Containers, mostly VOCs Free of Headspace?	
Labels at container level?	
Custody seals on containers?	
Samples sealed at client's site?	
Sample Hand Delivered?	
by Courier? UPS, DHL, FedEx, Lone Star	
Temperature Upon Receipt:	
Adjusted:	

TOLP:	
TOTAL:	

Amalyze For:	

Eligabeth Skrad
JEF Kindly

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



Revised Analytical Report

Prepared for:

Sylwia Reynolds
Dean
12600 W County Rd 91
Midland, TX 79707

Project: Plains-Perla Verde

Project Number: PP-2062

Location: Lea County, NM

Lab Order Number: 0H26009



Current Certification

Report Date: 08/27/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Perla Verde
Project Number: PP-2062
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-1 @ 6" CS-6 @ 6"	0H26009-01	Soil	08/25/20 13:00	08-26-2020 10:46
Pad West SW @ 6"	0H26009-02	Soil	08/25/20 13:20	08-26-2020 10:46
Pad North SW @ 6"	0H26009-03	Soil	08/25/20 14:30	08-26-2020 10:46
Pad South SW @ 6"	0H26009-04	Soil	08/25/20 11:00	08-26-2020 10:46
Pad East SW @ 6"	0H26009-05	Soil	08/25/20 10:30	08-26-2020 10:46
LACT North SW @ 1'	0H26009-06	Soil	08/25/20 11:37	08-26-2020 10:46
LACT South SW @ 1'	0H26009-07	Soil	08/25/20 11:20	08-26-2020 10:46
	0H26009-08	Soil	08/25/20 14:00	08-26-2020 10:46

On 08/27/20 PBELAB was advised by the client to Move these samples to 24 Hour TAT.

On 08/27/20 PBELAB was advised by the client that sample labeled Pad North SW @ 6" time sampled 230/1430 lab number on COC #3 should be renamed to Pad West SW @ 6"

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Perla Verde
Project Number: PP-2062
Project Manager: Sylwia Reynolds

Fax:

CS-1 @ 6"
0H26009-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	1.0	0.1	%	1	P0H2701	08/27/20 09:18	08/27/20 09:24	ASTM D2216
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 09:14	TPH 8015M
>C12-C28	238	25.3	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 09:14	TPH 8015M
>C28-C35	40.7	25.3	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 09:14	TPH 8015M
Surrogate: 1-Chlorooctane	97.8 %	70-130			P0H2607	08/26/20 13:20	08/27/20 09:14	TPH 8015M
Surrogate: o-Terphenyl	115 %	70-130			P0H2607	08/26/20 13:20	08/27/20 09:14	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	279	25.3	mg/kg dry	1	[CALC]	08/26/20 13:20	08/27/20 09:14	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Perla Verde
Project Number: PP-2062
Project Manager: Sylwia Reynolds

Fax:

CS-6 @ 6"
0H26009-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	ND	0.1	%	1	P0H2701	08/27/20 09:18	08/27/20 09:24	ASTM D2216
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 09:37	TPH 8015M
>C12-C28	26.4	25.0	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 09:37	TPH 8015M
>C28-C35	ND	25.0	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 09:37	TPH 8015M
Surrogate: 1-Chlorooctane		91.0	%	70-130	P0H2607	08/26/20 13:20	08/27/20 09:37	TPH 8015M
Surrogate: o-Terphenyl		105	%	70-130	P0H2607	08/26/20 13:20	08/27/20 09:37	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	26.4	25.0	mg/kg dry	1	[CALC]	08/26/20 13:20	08/27/20 09:37	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Perla Verde
Project Number: PP-2062
Project Manager: Sylwia Reynolds

Fax:

Pad West SW @ 6"
0H26009-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	1.0	0.1	%	1	P0H2701	08/27/20 09:18	08/27/20 09:24	ASTM D2216
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 09:59	TPH 8015M
>C12-C28	801	25.3	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 09:59	TPH 8015M
>C28-C35	141	25.3	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 09:59	TPH 8015M
Surrogate: 1-Chlorooctane		90.3 %	70-130		P0H2607	08/26/20 13:20	08/27/20 09:59	TPH 8015M
Surrogate: o-Terphenyl		102 %	70-130		P0H2607	08/26/20 13:20	08/27/20 09:59	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	942	25.3	mg/kg dry	1	[CALC]	08/26/20 13:20	08/27/20 09:59	calc

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Perla Verde
Project Number: PP-2062
Project Manager: Sylwia Reynolds

Fax:

Pad North SW @ 6"
0H26009-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	1.0	0.1	%	1	P0H2701	08/27/20 09:18	08/27/20 09:24	ASTM D2216
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	45.9	25.3	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 10:22	TPH 8015M
>C12-C28	1860	25.3	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 10:22	TPH 8015M
>C28-C35	329	25.3	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 10:22	TPH 8015M
<i>Surrogate: 1-Chlorooctane</i>		93.6 %	70-130		P0H2607	08/26/20 13:20	08/27/20 10:22	TPH 8015M
<i>Surrogate: o-Terphenyl</i>		110 %	70-130		P0H2607	08/26/20 13:20	08/27/20 10:22	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	2230	25.3	mg/kg dry	1	[CALC]	08/26/20 13:20	08/27/20 10:22	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Perla Verde
Project Number: PP-2062
Project Manager: Sylwia Reynolds

Fax:

Pad South SW @ 6"
0H26009-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	1.0	0.1	%	1	P0H2701	08/27/20 09:18	08/27/20 09:24	ASTM D2216
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 10:45	TPH 8015M
>C12-C28	68.2	25.3	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 10:45	TPH 8015M
>C28-C35	38.7	25.3	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 10:45	TPH 8015M
Surrogate: 1-Chlorooctane		98.8	%	70-130	P0H2607	08/26/20 13:20	08/27/20 10:45	TPH 8015M
Surrogate: o-Terphenyl		112	%	70-130	P0H2607	08/26/20 13:20	08/27/20 10:45	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	107	25.3	mg/kg dry	1	[CALC]	08/26/20 13:20	08/27/20 10:45	calc

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Perla Verde
Project Number: PP-2062
Project Manager: Sylwia Reynolds

Fax:

Pad East SW @ 6"
0H26009-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	2.0	0.1	%	1	P0H2701	08/27/20 09:18	08/27/20 09:24	ASTM D2216
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 11:07	TPH 8015M
>C12-C28	315	25.5	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 11:07	TPH 8015M
>C28-C35	69.8	25.5	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 11:07	TPH 8015M
Surrogate: 1-Chlorooctane		101 %	70-130		P0H2607	08/26/20 13:20	08/27/20 11:07	TPH 8015M
Surrogate: o-Terphenyl		114 %	70-130		P0H2607	08/26/20 13:20	08/27/20 11:07	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	385	25.5	mg/kg dry	1	[CALC]	08/26/20 13:20	08/27/20 11:07	calc

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Perla Verde
Project Number: PP-2062
Project Manager: Sylwia Reynolds

Fax:

LACT North SW @ 1'
0H26009-07 (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	ND	0.1	%	1	P0H2701	08/27/20 09:18	08/27/20 09:24	ASTM D2216
------------	----	-----	---	---	---------	----------------	----------------	------------

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 11:30	TPH 8015M
>C12-C28	262	25.0	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 11:30	TPH 8015M
>C28-C35	43.8	25.0	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 11:30	TPH 8015M
Surrogate: 1-Chlorooctane		94.3	%	70-130	P0H2607	08/26/20 13:20	08/27/20 11:30	TPH 8015M
Surrogate: o-Terphenyl		110	%	70-130	P0H2607	08/26/20 13:20	08/27/20 11:30	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	306	25.0	mg/kg dry	1	[CALC]	08/26/20 13:20	08/27/20 11:30	calc

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Perla Verde
Project Number: PP-2062
Project Manager: Sylwia Reynolds

Fax:

LACT South SW @ 1'
0H26009-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	1.0	0.1	%	1	P0H2701	08/27/20 09:18	08/27/20 09:24	ASTM D2216
------------	-----	-----	---	---	---------	----------------	----------------	------------

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 11:53	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 11:53	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P0H2607	08/26/20 13:20	08/27/20 11:53	TPH 8015M
Surrogate: 1-Chlorooctane		93.5 %	70-130		P0H2607	08/26/20 13:20	08/27/20 11:53	TPH 8015M
Surrogate: o-Terphenyl		108 %	70-130		P0H2607	08/26/20 13:20	08/27/20 11:53	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	08/26/20 13:20	08/27/20 11:53	calc

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Perla Verde
Project Number: PP-2062
Project Manager: Sylwia Reynolds

Fax:

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 P0H2701 - *** DEFAULT PREP ***										
Blank (P0H2701-BLK1)	Prepared & Analyzed: 08/27/20									
% Moisture	ND	0.1	%							
Blank (P0H2701-BLK2)	Prepared & Analyzed: 08/27/20									
% Moisture	ND	0.1	%							
Blank (P0H2701-BLK3)	Prepared & Analyzed: 08/27/20									
% Moisture	ND	0.1	%							
Blank (P0H2701-BLK4)	Prepared & Analyzed: 08/27/20									
% Moisture	ND	0.1	%							
Blank (P0H2701-BLK5)	Prepared & Analyzed: 08/27/20									
% Moisture	ND	0.1	%							
Duplicate (P0H2701-DUP1)	Source: 0H26003-01		Prepared & Analyzed: 08/27/20							
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P0H2701-DUP2)	Source: 0H26005-09		Prepared & Analyzed: 08/27/20							
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0H2701-DUP3)	Source: 0H26009-07		Prepared & Analyzed: 08/27/20							
% Moisture	ND	0.1	%		ND				20	
Duplicate (P0H2701-DUP4)	Source: 0H26018-02		Prepared & Analyzed: 08/27/20							
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P0H2701-DUP5)	Source: 0H26022-01		Prepared & Analyzed: 08/27/20							
% Moisture	4.0	0.1	%		5.0			22.2	20	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Perla Verde
Project Number: PP-2062
Project Manager: Sylwia Reynolds

Fax:

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
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Batch P0H2701 - * DEFAULT PREP *****

Duplicate (P0H2701-DUP6)	Source: 0H26023-05		Prepared & Analyzed: 08/27/20							
% Moisture	ND	0.1	%		ND				20	
Duplicate (P0H2701-DUP7)	Source: 0H26024-01		Prepared & Analyzed: 08/27/20							
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P0H2701-DUP8)	Source: 0H26024-11		Prepared & Analyzed: 08/27/20							
% Moisture	13.0	0.1	%		12.0			8.00	20	
Duplicate (P0H2701-DUP9)	Source: 0H26026-02		Prepared & Analyzed: 08/27/20							
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P0H2701-DUPA)	Source: 0H26026-12		Prepared & Analyzed: 08/27/20							
% Moisture	13.0	0.1	%		13.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Perla Verde
Project Number: PP-2062
Project Manager: Sylwia Reynolds

Fax:

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
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Batch P0H2607 - TX 1005**Blank (P0H2607-BLK1)**

Prepared: 08/26/20 Analyzed: 08/27/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	83.9		"	100		83.9	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.6	70-130			

LCS (P0H2607-BS1)

Prepared: 08/26/20 Analyzed: 08/27/20

C6-C12	884	25.0	mg/kg wet	1000		88.4	75-125			
>C12-C28	1050	25.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	46.9		"	50.0		93.8	70-130			

LCS Dup (P0H2607-BSD1)

Prepared: 08/26/20 Analyzed: 08/27/20

C6-C12	864	25.0	mg/kg wet	1000		86.4	75-125	2.24	20	
>C12-C28	1040	25.0	"	1000		104	75-125	0.976	20	
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	46.3		"	50.0		92.7	70-130			

Calibration Check (P0H2607-CCV1)

Prepared: 08/26/20 Analyzed: 08/27/20

C6-C12	470	25.0	mg/kg wet	500		93.9	85-115			
>C12-C28	510	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	97.9		"	100		97.9	70-130			
Surrogate: o-Terphenyl	48.3		"	50.0		96.6	70-130			

Calibration Check (P0H2607-CCV2)

Prepared: 08/26/20 Analyzed: 08/27/20

C6-C12	450	25.0	mg/kg wet	500		90.0	85-115			
>C12-C28	486	25.0	"	500		97.3	85-115			
Surrogate: 1-Chlorooctane	92.2		"	100		92.2	70-130			
Surrogate: o-Terphenyl	46.2		"	50.0		92.4	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Perla Verde
Project Number: PP-2062
Project Manager: Sylwia Reynolds

Fax:

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
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Batch P0H2607 - TX 1005**Calibration Check (P0H2607-CCV3)**

Prepared: 08/26/20 Analyzed: 08/27/20

C6-C12	457	25.0	mg/kg wet	500		91.3	85-115			
>C12-C28	521	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	95.6		"	100		95.6	70-130			
Surrogate: o-Terphenyl	48.1		"	50.0		96.3	70-130			

Matrix Spike (P0H2607-MS1)

Source: 0H26009-08

Prepared: 08/26/20 Analyzed: 08/27/20

C6-C12	919	25.3	mg/kg dry	1010	10.6	89.9	75-125			
>C12-C28	1130	25.3	"	1010	17.4	110	75-125			
Surrogate: 1-Chlorooctane	109		"	101		108	70-130			
Surrogate: o-Terphenyl	50.6		"	50.5		100	70-130			

Matrix Spike Dup (P0H2607-MSD1)

Source: 0H26009-08

Prepared: 08/26/20 Analyzed: 08/27/20

C6-C12	933	25.3	mg/kg dry	1010	10.6	91.3	75-125	1.55	20	
>C12-C28	1140	25.3	"	1010	17.4	111	75-125	1.45	20	
Surrogate: 1-Chlorooctane	112		"	101		110	70-130			
Surrogate: o-Terphenyl	49.2		"	50.5		97.4	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains-Perla Verde
Project Number: PP-2062
Project Manager: Sylwia Reynolds

Fax:

Notes and Definitions

ROI Received on Ice
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:



Date:

8/27/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-686-7235

Project Manager:

Sylvia Reynolds

Project Name:

Plains Perla Verde

Company Name

Acad Service

Project #:

PR-2062

Company Address:

12600 WER 91

Project Loc:

Lee County, NM

City/State/Zip:

Midland, TX 79707

PO #:

SRS # 2020-051

Telephone No:

432-230-0920

Fax No:

Report Format:

☒ Standard

☐ TRRP

☐ NPDES

Sampler Signature:

Robert Belter

e-mail:

Sylvia Reynolds

(lab use only)

ORDER #:

CH26009

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW=Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: TX 1005 TX 1005

Anions (Cl, SO₄, Alkalinity)

BTEX-00045/5030 or BTEX 8260

TPH 8015 M ex

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



Analytical Report

Prepared for:

Sylwia Reynolds
Dean
12600 W County Rd 91
Midland, TX 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Location: Lea County, NM
Lab Order Number: 0I28006



Current Certification

Report Date: 09/30/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pad North SW 6"	0I28006-01	Soil	09/25/20 13:30	09-28-2020 15:12

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

Pad North SW 6"
0128006-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	4.0	0.1	%	1	P012901	09/29/20 08:18	09/29/20 08:20	ASTM D2216
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P012802	09/28/20 15:30	09/28/20 20:33	TPH 8015M
>C12-C28	30.2	26.0	mg/kg dry	1	P012802	09/28/20 15:30	09/28/20 20:33	TPH 8015M
>C28-C35	ND	26.0	mg/kg dry	1	P012802	09/28/20 15:30	09/28/20 20:33	TPH 8015M
Surrogate: 1-Chlorooctane	85.3	%	70-130	P012802	09/28/20 15:30	09/28/20 20:33	TPH 8015M	
Surrogate: o-Terphenyl	93.6	%	70-130	P012802	09/28/20 15:30	09/28/20 20:33	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	30.2	26.0	mg/kg dry	1	[CALC]	09/28/20 15:30	09/28/20 20:33	calc

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean	Project: Plains: XTO Perla Verde	Fax:
12600 W County Rd 91	Project Number: PP-2062/SRS#2020-051	
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
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Batch P012901 - *** DEFAULT PREP ***				
Blank (P012901-BLK1)			Prepared & Analyzed: 09/29/20	
% Moisture	ND	0.1	%	

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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 P012802 - TX 1005**Blank (P012802-BLK1)**

Prepared & Analyzed: 09/28/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	82.0		"	100		82.0	70-130			
Surrogate: o-Terphenyl	41.9		"	50.0		83.8	70-130			

LCS (P012802-BS1)

Prepared: 09/28/20 Analyzed: 09/29/20

C6-C12	917	25.0	mg/kg wet	1000		91.7	75-125			
>C12-C28	1130	25.0	"	1000		113	75-125			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	48.2		"	50.0		96.5	70-130			

LCS Dup (P012802-BSD1)

Prepared & Analyzed: 09/28/20

C6-C12	987	25.0	mg/kg wet	1000		98.7	75-125	7.36	20	
>C12-C28	1100	25.0	"	1000		110	75-125	2.73	20	
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	51.0		"	50.0		102	70-130			

Calibration Check (P012802-CCV1)

Prepared & Analyzed: 09/28/20

C6-C12	526	25.0	mg/kg wet	500		105	85-115			
>C12-C28	524	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	92.6		"	100		92.6	70-130			
Surrogate: o-Terphenyl	44.1		"	50.0		88.2	70-130			

Calibration Check (P012802-CCV2)

Prepared & Analyzed: 09/28/20

C6-C12	508	25.0	mg/kg wet	500		102	85-115			
>C12-C28	567	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	50.2		"	50.0		100	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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
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Batch P012802 - TX 1005

Matrix Spike (P012802-MS1)		Source: 0125018-07			Prepared & Analyzed: 09/28/20					
C6-C12	892	25.3	mg/kg dry	1010	15.5	86.7	75-125			
>C12-C28	1100	25.3	"	1010	122	96.4	75-125			
Surrogate: 1-Chlorooctane	103		"	101		102	70-130			
Surrogate: o-Terphenyl	47.0		"	50.5		93.0	70-130			
Matrix Spike Dup (P012802-MSD1)		Source: 0125018-07			Prepared & Analyzed: 09/28/20					
C6-C12	923	25.3	mg/kg dry	1010	15.5	89.8	75-125	3.49	20	
>C12-C28	1090	25.3	"	1010	122	96.1	75-125	0.382	20	
Surrogate: 1-Chlorooctane	106		"	101		105	70-130			
Surrogate: o-Terphenyl	48.3		"	50.5		95.7	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

Notes and Definitions

ROI Received on Ice
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:



Date:

9/30/2020

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

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



Analytical Report

Prepared for:

Sylwia Reynolds
Dean
12600 W County Rd 91
Midland, TX 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051

Location:

Lab Order Number: 0F23003



NELAP/TCEQ # T104704516-18-9

Report Date: 07/20/20

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC-1	0F23003-01	Soil	06/17/20 00:00	06-23-2020 07:40

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
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

WC-1
0F23003-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	168	1.04	mg/kg dry	1	P0F2310	06/23/20	06/24/20	EPA 300.0	
Reactive Cyanide	ND	100	mg/kg	1	P0G0804	06/30/20	06/30/20	SW846 9010B	SUB-13
Ignitability by Flashpoint	> 212		°F	1	P0G0804	06/06/20	06/06/20	ASTM D93-80	SUB-13
pH	7.89	0.10	pH Units	1	P0G0804	07/01/20	07/01/20	EPA 9045B	SUB-13
% Moisture	4.0	0.1	%	1	P0F2401	06/24/20	06/24/20	ASTM D2216	
Reactive Sulfide	ND	100	mg/kg	1	P0G0804	06/30/20	06/30/20	SW846 9030B	SUB-13

Naturally Occurring Radioactive Material (N.O.R.M.)

Radium 226	2.09	1.35	pCi/g	1	P0G2009	07/10/20	07/10/20	EPA 901.1	SUB12
Radium 228	ND	0.31	pCi/g	1	P0G2009	07/10/20	07/10/20	EPA 901.1	SUB12
Lead 210	ND	1.29	pCi/g	1	P0G2009	07/10/20	07/10/20	EPA 901.1	SUB12
Total Gamma	7.26		pCi/g	1	P0G2009	07/10/20	07/10/20	EPA 901.1	SUB12
Lead 210 Analysis Error	ND	1.29	+/- 2 Sigma	1	P0G2009	07/10/20	07/10/20	EPA 901.1	SUB12
Radium 226 Analysis Error	ND	1.35	+/- 2 Sigma	1	P0G2009	07/10/20	07/10/20	EPA 901.1	SUB12
Radium 228 Analysis Error	ND	0.31	+/- 2 Sigma	1	P0G2009	07/10/20	07/10/20	EPA 901.1	SUB12

TCLP Metals 1311 by EPA / Standard Methods

Mercury	ND	0.000200	mg/L	1	P0G0804	06/26/20	06/29/20	EPA 7470A	SUB-13
Chromium	ND	0.0500	mg/L	1	P0G0804	06/26/20	06/26/20	EPA 6020A	SUB-13
Arsenic	ND	0.0500	mg/L	1	P0G0804	06/26/20	06/26/20	EPA 6020A	SUB-13
Selenium	ND	0.0500	mg/L	1	P0G0804	06/26/20	06/26/20	EPA 6020A	SUB-13
Silver	ND	0.0500	mg/L	1	P0G0804	06/26/20	06/26/20	EPA 6020A	SUB-13
Cadmium	ND	0.0500	mg/L	1	P0G0804	06/26/20	06/26/20	EPA 6020A	SUB-13
Barium	0.705	0.200	mg/L	1	P0G0804	06/26/20	06/26/20	EPA 6020A	SUB-13
Lead	ND	0.0500	mg/L	1	P0G0804	06/26/20	06/26/20	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

WC-1
0F23003-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

TCLP Volatile Organic Compounds by EPA Method 1311/8260B

Benzene	ND	100	ug/l	1	P0G0804	06/26/20	06/30/20	EPA 8260B	SUB-13
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1990	130	mg/kg dry	5	P0F2308	06/23/20	06/25/20	TPH 8015M	
>C12-C28	6100	130	mg/kg dry	5	P0F2308	06/23/20	06/25/20	TPH 8015M	
>C28-C35	476	130	mg/kg dry	5	P0F2308	06/23/20	06/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P0F2308	06/23/20	06/25/20	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P0F2308	06/23/20	06/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	8570	130	mg/kg dry	5	[CALC]	06/23/20	06/25/20	calc	

Physical Parameters by APHA/ASTM/EPA Methods

Free Liquid	> 212		N/A	1	P0G0804	06/24/20	06/24/20	EPA 9095	SUB-13
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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 P0F2310 - * DEFAULT PREP *******Blank (P0F2310-BLK1)**

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	ND	1.00	mg/kg wet							
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LCS (P0F2310-BS1)

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	407	1.00	mg/kg wet	400		102	80-120			
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LCS Dup (P0F2310-BSD1)

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	413	1.00	mg/kg wet	400		103	80-120	1.61	20	
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Calibration Check (P0F2310-CCV1)

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	20.1		mg/kg	20.0		100	0-200			
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Calibration Check (P0F2310-CCV2)

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	20.0		mg/kg	20.0		100	0-200			
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Matrix Spike (P0F2310-MS1)**Source: 0F23003-01**

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	623	1.04	mg/kg dry	521	168	87.4	80-120			
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Matrix Spike (P0F2310-MS2)**Source: 0F23004-10**

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	508	1.04	mg/kg dry	521	38.3	90.2	80-120			
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Matrix Spike Dup (P0F2310-MSD1)**Source: 0F23003-01**

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	598	1.04	mg/kg dry	521	168	82.5	80-120	4.10	20	
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Matrix Spike Dup (P0F2310-MSD2)**Source: 0F23004-10**

Prepared: 06/23/20 Analyzed: 06/24/20

Chloride	523	1.04	mg/kg dry	521	38.3	93.1	80-120	2.94	20	
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Batch P0F2401 - * DEFAULT PREP *******Blank (P0F2401-BLK1)**

Prepared & Analyzed: 06/24/20

% Moisture	ND	0.1	%							
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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
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Batch P0F2401 - * DEFAULT PREP *****

Duplicate (P0F2401-DUP1)	Source: 0F23004-13		Prepared & Analyzed: 06/24/20							
% Moisture	8.0	0.1	%		7.0			13.3	20	
Duplicate (P0F2401-DUP2)	Source: 0F23009-01		Prepared & Analyzed: 06/24/20							
% Moisture	14.0	0.1	%		13.0			7.41	20	
Duplicate (P0F2401-DUP3)	Source: 0F23009-14		Prepared & Analyzed: 06/24/20							
% Moisture	12.0	0.1	%		12.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 6 of 32

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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 P0F2308 - TX 1005**Blank (P0F2308-BLK1)**

Prepared: 06/23/20 Analyzed: 06/24/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	55.2		"	50.0		110	70-130			

LCS (P0F2308-BS1)

Prepared: 06/23/20 Analyzed: 06/24/20

C6-C12	1140	25.0	mg/kg wet	1000		114	75-125			
>C12-C28	1210	25.0	"	1000		121	75-125			
Surrogate: 1-Chlorooctane	99.9		"	100		99.9	70-130			
Surrogate: o-Terphenyl	52.9		"	50.0		106	70-130			

LCS Dup (P0F2308-BS1)

Prepared: 06/23/20 Analyzed: 06/24/20

C6-C12	1210	25.0	mg/kg wet	1000		121	75-125	6.42	20	
>C12-C28	1240	25.0	"	1000		124	75-125	1.94	20	
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	54.3		"	50.0		109	70-130			

Calibration Check (P0F2308-CCV1)

Prepared: 06/23/20 Analyzed: 06/24/20

C6-C12	528	25.0	mg/kg wet	500		106	85-115			
>C12-C28	551	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	48.8		"	50.0		97.7	70-130			

Calibration Check (P0F2308-CCV2)

Prepared: 06/23/20 Analyzed: 06/24/20

C6-C12	550	25.0	mg/kg wet	500		110	85-115			
>C12-C28	560	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	48.0		"	50.0		96.0	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

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 P0F2308 - TX 1005**Calibration Check (P0F2308-CCV3)**

Prepared: 06/23/20 Analyzed: 06/24/20

C6-C12	536	25.0	mg/kg wet	500		107	85-115			
>C12-C28	575	25.0	"	500		115	85-115			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	47.0		"	50.0		94.1	70-130			

Matrix Spike (P0F2308-MS1)

Source: 0F23006-01

Prepared: 06/23/20 Analyzed: 06/24/20

C6-C12	1130	25.3	mg/kg dry	1010	14.0	111	75-125			
>C12-C28	2430	25.3	"	1010	1810	60.9	75-125			QM-05
Surrogate: 1-Chlorooctane	116		"	101		115	70-130			
Surrogate: o-Terphenyl	55.3		"	50.5		109	70-130			

Matrix Spike Dup (P0F2308-MSD1)

Source: 0F23006-01

Prepared: 06/23/20 Analyzed: 06/24/20

C6-C12	1110	25.3	mg/kg dry	1010	14.0	109	75-125	2.01	20	
>C12-C28	2440	25.3	"	1010	1810	61.8	75-125	1.43	20	QM-05
Surrogate: 1-Chlorooctane	114		"	101		113	70-130			
Surrogate: o-Terphenyl	47.0		"	50.5		93.1	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

Notes and Definitions

SUB-13 Subcontract of analyte/analysis to ALS Houston.

SUB12 Analysis was subcontracted to ARS Port Allen Louisiana.

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:



Date:

7/20/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean
12600 W County Rd 91
Midland TX, 79707

Project: Plains: XTO Perla Verde
Project Number: PP-2062/SRS#2020-051
Project Manager: Sylwia Reynolds

Fax:

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

PBRLAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-686-7235

Project Manager: Sylvia ReynoldsCompany Name: Dean ServiceCompany Address: 12600 WCR G1City/State/Zip: Midland, TXTelephone No: 432-230-0920Sampler Signature: Jeff Kindly

Fax No:

e-mail:

Sylvia Reynolds
Keylia Lopez
Eligabeth Stewart
Jeff Kindly

Project Name: XTD Plains PipelineProject #: PP-2062Project Loc: La Grulla, New MexicoPO #: 2020-051

Report Format:

☒ Standard☐ TRRP☐ NPDES

(lab use only)

ORDER #: 0723003

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: TX 1005 TX 1006

Anions (Cl, SO₄, Alkalinity)

BTEX 8021B/5030 or BTEX 8260

TPH 8015 M Ext

Chlorides 4500

RCI

TCLP Benzene

TCLP Metals

NORM

PAINT Filter

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Preservation & # of Containers

Matrix

Analyze For:

TCLP:

TOTAL:

Special Instructions: On bag size of 5 mph

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers:

VOCs Free of HeadSpace?

Custody seals on containers?

Sample Hand Delivered?

by Counter? UPS DHL FedEx

Temperature Upon Receipt: °C

Adjusted: °C Factor

20410 3.0 CFU



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

July 01, 2020

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

Work Order: **HS20061240**

Laboratory Results for: **OF23003**

Dear Brent Barron,

ALS Environmental received 1 sample(s) on Jun 25, 2020 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,

A handwritten signature in black ink, appearing to read 'Andy C. Neir'.

Generated By: JUMOKE.LAWAL

Andy C. Neir

ALS Houston, US

Date: 01-Jul-20

Client: Permian Basin Environmental Lab, LP
Project: OF23003
Work Order: HS20061240

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20061240-01	OF23003-1	Soil		17-Jun-2020 08:00	25-Jun-2020 09:00	<input type="checkbox"/>

ALS Houston, US

Date: 01-Jul-20

Client: Permian Basin Environmental Lab, LP
Project: OF23003
Work Order: HS20061240

CASE NARRATIVE**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: 154830**

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

Metals by Method SW7470**Batch ID: 154976**

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

Metals by Method SW1311/6020**Batch ID: 154895**

- 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: R364270**

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

WetChemistry by Method SW9045D**Batch ID: R364326**

- 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: R364268**

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

WetChemistry by Method ASTM D92-12b**Batch ID: R364047**

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

ALS Houston, US

Date: 01-Jul-20

Client: Permian Basin Environmental Lab, LP
 Project: OF23003
 Sample ID: OF23003-1
 Collection Date: 17-Jun-2020 08:00

ANALYTICAL REPORT

WorkOrder:HS20061240
 Lab ID:HS20061240-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES						
	Method:SW8260		Leache:SW1311 / 26-Jun-2020	Prep:SW1311 / 26-Jun-2020	Analyst: PC	
Benzene	ND		0.10	mg/L	20	30-Jun-2020 03:38
Surr: 1,2-Dichloroethane-d4	77.5		70-126	%REC	20	30-Jun-2020 03:38
Surr: 4-Bromofluorobenzene	97.5		82-124	%REC	20	30-Jun-2020 03:38
Surr: Dibromofluoromethane	84.1		77-123	%REC	20	30-Jun-2020 03:38
Surr: Toluene-d8	111		82-127	%REC	20	30-Jun-2020 03:38
TCLP METALS BY SW6020A						
	Method:SW1311/6020		Leache:SW1311 / 26-Jun-2020	Prep:SW3010A / 26-Jun-2020	Analyst: JHD	
Arsenic	ND		0.0500	mg/L	1	26-Jun-2020 23:21
Barium	0.705		0.200	mg/L	1	26-Jun-2020 23:21
Cadmium	ND		0.0500	mg/L	1	26-Jun-2020 23:21
Chromium	ND		0.0500	mg/L	1	26-Jun-2020 23:21
Lead	ND		0.0500	mg/L	1	26-Jun-2020 23:21
Selenium	ND		0.0500	mg/L	1	26-Jun-2020 23:21
Silver	ND		0.0500	mg/L	1	26-Jun-2020 23:21
TCLP MERCURY BY SW7470A						
	Method:SW7470		Leache:SW1311 / 26-Jun-2020	Prep:SW7470 / 29-Jun-2020	Analyst: FO	
Mercury	ND		0.000200	mg/L	1	29-Jun-2020 15:20
FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B						
	Method:ASTM D92-12b				Analyst: TH	
Flash Point	> 212	n	50.0	°F	1	26-Jun-2020 17:30
REACTIVE CYANIDE						
	Method:SW7.3.3.2			Prep:SW7.3.3.2	Analyst: KVL	
Reactive Cyanide	ND	n	100	mg/Kg	1	30-Jun-2020 16:00
REACTIVE SULFIDE						
	Method:SW7.3.4.2				Analyst: KVL	
Reactive Sulfide	ND	n	100	mg/Kg	1	30-Jun-2020 16:10
PH SOIL BY SW9045D						
	Method:SW9045D				Analyst: JAC	
pH	7.89	H	0.100	pH Units	1	01-Jul-2020 13:37
Temp Deg C @pH	23.8	H	0	°C	1	01-Jul-2020 13:37

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

ALS Houston, US

Date: 01-Jul-20

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP

Project: OF23003

WorkOrder: HS20061240

Batch ID: 154828	Start Date: 25 Jun 2020 16:00	End Date: 26 Jun 2020 09:00
Method: TCLP MERCURY EXTRACTION BY SW1311	Prep Code: 1311LHG EXT	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20061240-01		100 (grams)	2000 (mL)	20

Batch ID: 154829	Start Date: 25 Jun 2020 16:00	End Date: 26 Jun 2020 09:00
Method: TCLP METALS EXTRACTION BY SW1311	Prep Code: 1311LM EXT	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20061240-01		100 (grams)	2000 (mL)	20

Batch ID: 154830	Start Date: 25 Jun 2020 16:00	End Date: 26 Jun 2020 09:00
Method: TCLP ZHE (VOL EXTRACTION)	Prep Code: 1311ZHE	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20061240-01		25 (g)	500 (mL)	20

Batch ID: 154895	Start Date: 26 Jun 2020 16:00	End Date: 26 Jun 2020 16:00
Method: TCLP LEACHATE DIGESTION BY SW3010A	Prep Code: 3010A_TCLP	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20061240-01		1 (mL)	10 (mL)	10

Batch ID: 154976	Start Date: 29 Jun 2020 10:00	End Date: 29 Jun 2020 12:00
Method: MERCURY TCLP PREP BY SW7470A	Prep Code: 1311_HGPR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20061240-01		10 (mL)	10 (mL)	1

ALS Houston, US

Date: 01-Jul-20

Client: Permian Basin Environmental Lab, LP
Project: OF23003
WorkOrder: HS20061240

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 154830 (0)		Test Name : TCLP VOLATILES			Matrix: Soil	
HS20061240-01	OF23003-1	17 Jun 2020 08:00	26 Jun 2020 09:00	26 Jun 2020 11:37	30 Jun 2020 03:38	20
Batch ID: 154895 (0)		Test Name : TCLP METALS BY SW6020A			Matrix: Soil	
HS20061240-01	OF23003-1	17 Jun 2020 08:00	26 Jun 2020 09:00	26 Jun 2020 16:00	26 Jun 2020 23:21	1
Batch ID: 154976 (0)		Test Name : TCLP MERCURY BY SW7470A			Matrix: Soil	
HS20061240-01	OF23003-1	17 Jun 2020 08:00	26 Jun 2020 09:00	29 Jun 2020 10:00	29 Jun 2020 15:20	1
Batch ID: R364047 (0)		Test Name : FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B			Matrix: Soil	
HS20061240-01	OF23003-1	17 Jun 2020 08:00			26 Jun 2020 17:30	1
Batch ID: R364268 (0)		Test Name : REACTIVE SULFIDE			Matrix: Soil	
HS20061240-01	OF23003-1	17 Jun 2020 08:00			30 Jun 2020 16:10	1
Batch ID: R364270 (0)		Test Name : REACTIVE CYANIDE			Matrix: Soil	
HS20061240-01	OF23003-1	17 Jun 2020 08:00			30 Jun 2020 16:00	1
Batch ID: R364326 (0)		Test Name : PH SOIL BY SW9045D			Matrix: Soil	
HS20061240-01	OF23003-1	17 Jun 2020 08:00			01 Jul 2020 13:37	1

ALS Houston, US

Date: 01-Jul-20

Client: Permian Basin Environmental Lab, LP
Project: OF23003
WorkOrder: HS20061240

QC BATCH REPORT

Batch ID: 154895 (0)		Instrument: ICPMS04		Method: TCLP METALS BY SW6020A					
MBLK	Sample ID: MBLKT2-154895	Units: mg/L		Analysis Date: 26-Jun-2020 22:48					
Client ID:	Run ID: ICPMS04_363979	SeqNo: 5638870		PrepDate: 26-Jun-2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %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: MBLKT3-154895	Units: mg/L		Analysis Date: 26-Jun-2020 22:50					
Client ID:	Run ID: ICPMS04_363979	SeqNo: 5638871		PrepDate: 26-Jun-2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %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: MBLKT1-154895	Units: mg/L		Analysis Date: 26-Jun-2020 22:45					
Client ID:	Run ID: ICPMS04_363979	SeqNo: 5638869		PrepDate: 26-Jun-2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %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

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Date: 01-Jul-20

Client: Permian Basin Environmental Lab, LP
Project: OF23003
WorkOrder: HS20061240

QC BATCH REPORT

Batch ID: 154895 (0)		Instrument: ICPMS04		Method: TCLP METALS BY SW6020A					
MBLK	Sample ID: MBLK-154895	Units: mg/L		Analysis Date: 26-Jun-2020 22:43					
Client ID:	Run ID: ICPMS04_363979	SeqNo: 5638868		PrepDate: 26-Jun-2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %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-154895	Units: mg/L		Analysis Date: 27-Jun-2020 13:21					
Client ID:	Run ID: ICPMS04_364038	SeqNo: 5639457		PrepDate: 26-Jun-2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.04411	0.00500	0.05	0	88.2	80 - 120			
Barium	0.04303	0.0200	0.05	0	86.1	80 - 120			
Cadmium	0.04391	0.00500	0.05	0	87.8	80 - 120			
Chromium	0.04315	0.00500	0.05	0	86.3	80 - 120			
Selenium	0.04511	0.00500	0.05	0	90.2	80 - 120			
Silver	0.04192	0.00500	0.05	0	83.8	80 - 120			

LCS	Sample ID: LCS-154895	Units: mg/L		Analysis Date: 27-Jun-2020 13:58					
Client ID:	Run ID: ICPMS04_364038	SeqNo: 5639473		PrepDate: 26-Jun-2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Lead	0.04478	0.00500	0.05	0	89.6	80 - 120			

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Date: 01-Jul-20

Client: Permian Basin Environmental Lab, LP
Project: OF23003
WorkOrder: HS20061240

QC BATCH REPORT

Batch ID: 154895 (0)		Instrument: ICPMS04		Method: TCLP METALS BY SW6020A					
MS		Sample ID: HS20061170-01MS		Units: mg/L		Analysis Date: 27-Jun-2020 13:27			
Client ID:		Run ID: ICPMS04_364038		SeqNo: 5639460		PrepDate: 26-Jun-2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.4935	0.0500	0.5	0.00202	98.3	80 - 120			
Barium	0.89	0.200	0.5	0.4042	97.2	80 - 120			
Cadmium	0.4633	0.0500	0.5	0.00073	92.5	80 - 120			
Chromium	0.4601	0.0500	0.5	-0.00041	92.1	80 - 120			
Lead	0.4469	0.0500	0.5	0.00362	88.7	80 - 120			
Selenium	0.4919	0.0500	0.5	0.00191	98.0	80 - 120			
Silver	0.4311	0.0500	0.5	0.00025	86.2	80 - 120			

MSD		Sample ID: HS20061170-01MSD		Units: mg/L		Analysis Date: 27-Jun-2020 13:29			
Client ID:		Run ID: ICPMS04_364038		SeqNo: 5639461		PrepDate: 26-Jun-2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.5027	0.0500	0.5	0.00202	100	80 - 120	0.4935	1.85	20
Barium	0.9238	0.200	0.5	0.4042	104	80 - 120	0.89	3.73	20
Cadmium	0.4779	0.0500	0.5	0.00073	95.4	80 - 120	0.4633	3.11	20
Chromium	0.48	0.0500	0.5	-0.00041	96.1	80 - 120	0.4601	4.23	20
Lead	0.4697	0.0500	0.5	0.00362	93.2	80 - 120	0.4469	4.97	20
Selenium	0.5124	0.0500	0.5	0.00191	102	80 - 120	0.4919	4.09	20
Silver	0.4494	0.0500	0.5	0.00025	89.8	80 - 120	0.4311	4.17	20

PDS		Sample ID: HS20061170-01PDS		Units: mg/L		Analysis Date: 27-Jun-2020 13:31			
Client ID:		Run ID: ICPMS04_364038		SeqNo: 5639462		PrepDate: 26-Jun-2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	1.049	0.0500	1	0.00202	105	75 - 125			
Barium	1.471	0.200	1	0.4042	107	75 - 125			
Cadmium	1.001	0.0500	1	0.00073	100	75 - 125			
Chromium	0.975	0.0500	1	-0.00041	97.5	75 - 125			
Lead	0.9887	0.0500	1	0.00362	98.5	75 - 125			
Selenium	1.033	0.0500	1	0.00191	103	75 - 125			
Silver	1.003	0.0500	1	0.00025	100	75 - 125			

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Date: 01-Jul-20

Client: Permian Basin Environmental Lab, LP
Project: OF23003
WorkOrder: HS20061240

QC BATCH REPORT

Batch ID: 154895 (0)		Instrument: ICPMS04		Method: TCLP METALS BY SW6020A						
SD	Sample ID: HS20061170-01SD	Units: mg/L		Analysis Date: 27-Jun-2020 13:25						
Client ID:	Run ID: ICPMS04_364038	SeqNo: 5639459		PrepDate: 26-Jun-2020		DF: 5				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	ND	0.250					0.00202	0	10	
Barium	0.3854	1.00					0.4042	0	10	J
Cadmium	ND	0.250					0.00073	0	10	
Chromium	ND	0.250					-0.00041	0	10	
Lead	ND	0.250					0.00362	0	10	
Selenium	ND	0.250					0.00191	0	10	
Silver	ND	0.250					0.00025	0	10	

The following samples were analyzed in this batch: HS20061240-01

ALS Houston, US

Date: 01-Jul-20

Client: Permian Basin Environmental Lab, LP
Project: OF23003
WorkOrder: HS20061240

QC BATCH REPORT

Batch ID: 154976 (0)		Instrument: HG03		Method: TCLP MERCURY BY SW7470A						
MBLK	Sample ID: MBLKT1-154976	Units: mg/L		Analysis Date: 29-Jun-2020 15:10						
Client ID:	Run ID: HG03_364143		SeqNo: 5641849		PrepDate: 29-Jun-2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Mercury	ND	0.000200								
MBLK	Sample ID: MBLK-154976	Units: mg/L		Analysis Date: 29-Jun-2020 15:01						
Client ID:	Run ID: HG03_364143		SeqNo: 5641844		PrepDate: 29-Jun-2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Mercury	ND	0.000200								
LCS	Sample ID: LCS-154976	Units: mg/L		Analysis Date: 29-Jun-2020 15:03						
Client ID:	Run ID: HG03_364143		SeqNo: 5641845		PrepDate: 29-Jun-2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Mercury	0.00509	0.000200	0.005	0	102	80 - 120				
MS	Sample ID: HS20061186-01MS	Units: mg/L		Analysis Date: 29-Jun-2020 15:07						
Client ID:	Run ID: HG03_364143		SeqNo: 5641847		PrepDate: 29-Jun-2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Mercury	0.00525	0.000200	0.005	-0.000002	105	75 - 125				
MSD	Sample ID: HS20061186-01MSD	Units: mg/L		Analysis Date: 29-Jun-2020 15:08						
Client ID:	Run ID: HG03_364143		SeqNo: 5641848		PrepDate: 29-Jun-2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual
Mercury	0.00535	0.000200	0.005	-0.000002	107	75 - 125	0.00525	1.89	20	
The following samples were analyzed in this batch: HS20061240-01										

ALS Houston, US

Date: 01-Jul-20

Client: Permian Basin Environmental Lab, LP
Project: OF23003
WorkOrder: HS20061240

QC BATCH REPORT

Batch ID: 154830 (0)		Instrument: VOA6		Method: TCLP VOLATILES					
MBLK	Sample ID: MBLK-154830	Units: ug/L		Analysis Date: 30-Jun-2020 02:26					
Client ID:	Run ID: VOA6_364208	SeqNo: 5643784		PrepDate: 26-Jun-2020		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	787.5	100	1000	0	78.8	70 - 130			
Surr: 4-Bromofluorobenzene	952.9	100	1000	0	95.3	82 - 115			
Surr: Dibromofluoromethane	847	100	1000	0	84.7	73 - 126			
Surr: Toluene-d8	1115	100	1000	0	112	81 - 120			

LCS	Sample ID: VLCSW-154830	Units: ug/L		Analysis Date: 29-Jun-2020 23:38					
Client ID:	Run ID: VOA6_364208	SeqNo: 5643780		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	19.73	5.0	20	0	98.6	74 - 120			
Surr: 1,2-Dichloroethane-d4	48.87	5.0	50	0	97.7	70 - 130			
Surr: 4-Bromofluorobenzene	48.19	5.0	50	0	96.4	82 - 115			
Surr: Dibromofluoromethane	50.51	5.0	50	0	101	73 - 126			
Surr: Toluene-d8	49.56	5.0	50	0	99.1	81 - 120			

MS	Sample ID: HS20061208-28MS	Units: ug/L		Analysis Date: 30-Jun-2020 01:38					
Client ID:	Run ID: VOA6_364208	SeqNo: 5643783		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	20.08	5.0	20	0	100	70 - 127			
Surr: 1,2-Dichloroethane-d4	38.78	5.0	50	0	77.6	70 - 126			
Surr: 4-Bromofluorobenzene	48.07	5.0	50	0	96.1	82 - 124			
Surr: Dibromofluoromethane	42.84	5.0	50	0	85.7	77 - 123			
Surr: Toluene-d8	55.28	5.0	50	0	111	82 - 127			

The following samples were analyzed in this batch: HS20061240-01

ALS Houston, US

Date: 01-Jul-20

Client: Permian Basin Environmental Lab, LP
Project: OF23003
WorkOrder: HS20061240

QC BATCH REPORT

Batch ID: R364047 (0)		Instrument: WetChem_HS		Method: FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B					
DUP	Sample ID: HS20061329-01DUP	Units: °F		Analysis Date: 26-Jun-2020 17:30					
Client ID:	Run ID: WetChem_HS_364047		SeqNo: 5639326		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: HS20061240-01

ALS Houston, US

Date: 01-Jul-20

Client: Permian Basin Environmental Lab, LP

Project: OF23003

WorkOrder: HS20061240

QC BATCH REPORT

Batch ID: R364268 (0)		Instrument: WetChem_HS		Method: REACTIVE SULFIDE					
MBLK	Sample ID: MBLK-R364268	Units: mg/Kg		Analysis Date: 30-Jun-2020 16:10					
Client ID:	Run ID: WetChem_HS_364268		SeqNo: 5644930		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Sulfide	ND	100							
LCS	Sample ID: LCS-R364268	Units: mg/Kg		Analysis Date: 30-Jun-2020 16:10					
Client ID:	Run ID: WetChem_HS_364268		SeqNo: 5644929		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Sulfide	64	100	100	0	64.0	20 - 120			J
MS	Sample ID: HS20061209-01MS	Units: mg/Kg		Analysis Date: 30-Jun-2020 16:10					
Client ID:	Run ID: WetChem_HS_364268		SeqNo: 5644931		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Sulfide	64	100	100	0	64.0	20 - 120			J
The following samples were analyzed in this batch: HS20061240-01									

ALS Houston, US

Date: 01-Jul-20

Client: Permian Basin Environmental Lab, LP

Project: OF23003

WorkOrder: HS20061240

QC BATCH REPORT

Batch ID: R364270 (0)		Instrument: UV-2450		Method: REACTIVE CYANIDE					
MBLK	Sample ID: MBLK-R364270	Units: mg/Kg		Analysis Date: 30-Jun-2020 16:00					
Client ID:	Run ID: UV-2450_364270	SeqNo: 5644943		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Cyanide	ND	100							
LCS	Sample ID: LCS-R364270	Units: mg/Kg		Analysis Date: 30-Jun-2020 16:00					
Client ID:	Run ID: UV-2450_364270	SeqNo: 5644942		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Cyanide	0.61	100	10	0	6.10	5 - 100			J
MS	Sample ID: HS20061209-01MS	Units: mg/Kg		Analysis Date: 30-Jun-2020 16:00					
Client ID:	Run ID: UV-2450_364270	SeqNo: 5644944		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Cyanide	0.6	100	10	0	6.00	5 - 100			J
The following samples were analyzed in this batch: HS20061240-01									

ALS Houston, US

Date: 01-Jul-20

Client: Permian Basin Environmental Lab, LP
Project: OF23003
WorkOrder: HS20061240

QC BATCH REPORT

Batch ID: R364326 (0)		Instrument: WetChem_HS		Method: PH SOIL BY SW9045D					
DUP	Sample ID: HS20061240-01DUP	Units: pH Units		Analysis Date: 01-Jul-2020 13:37					
Client ID: OF23003-1	Run ID: WetChem_HS_364326		SeqNo: 5646453		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
pH	7.85	0.100					7.89	0.508	10
Temp Deg C @pH	23.6	0					23.8	0.844	10

The following samples were analyzed in this batch: HS20061240-01

ALS Houston, US

Date: 01-Jul-20

Client: Permian Basin Environmental Lab, LP
Project: OF23003
WorkOrder: HS20061240

**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 Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
Date	
mg/L	Milligrams per Liter

ALS Houston, US

Date: 01-Jul-20

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2019-2020	31-Jul-2020
North Carolina	624-2020	31-Dec-2020
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

ALS Houston, US

Date: 01-Jul-20

Sample Receipt Checklist

Work Order ID: HS20061240

Date/Time Received: 25-Jun-2020 09:00

Client Name: Permian Basin Lab

Received by: Nilesh D. Ranchod

Completed By: /S/ Paresh M. Giga	25-Jun-2020 14:03	Reviewed by: /S/ Andy C. Neir	25-Jun-2020 22:21
eSignature	Date/Time	eSignature	Date/Time

Matrices: SoilCarrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	1 Page(s)
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	COC IDs:None
Samplers name present on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	3.8C U/C IR25		
Cooler(s)/Kit(s):	Red		
Date/Time sample(s) sent to storage:	6/25/2020 14:10		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:



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

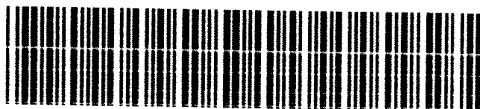
City/State/Zip: Midland Texas 79701

Telephone No: 432-661-4184

Sampler Signature: N/A

HS20061240

Permian Basin Environmental Lab, LP
OF23003



Project Name: SUBCONTRACT

Project #:

Project Loc:

PO #: _____

Report Format: ☒ Standard ☐ TRRP ☐ NRC

e-mail: brentbarron@pbelab.com

[illegible]

Red

JUN 25 2020

FedEx

TRK#
0200

8147 4810 4695

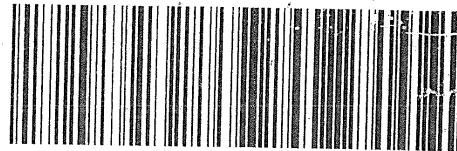
THU - 25 JUN AA
STANDARD OVERNIGHT

AB SGRA

Red

77099

TX-US
IAH



FID 673024 24JUN20 MAF 56BC1/C700/05A2

APPENDIX E

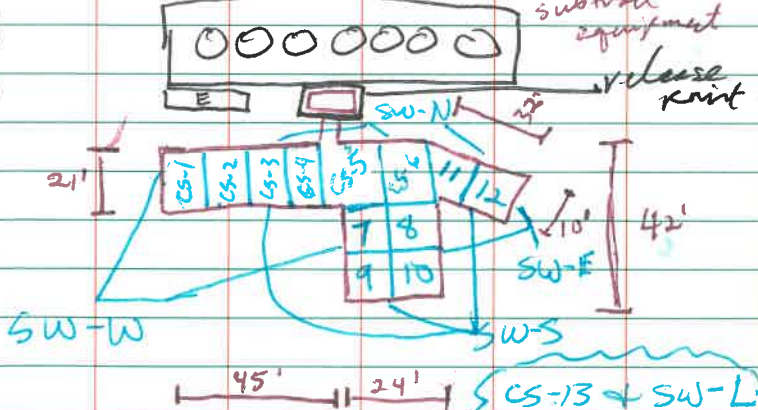
FIELD SCREENING DELINEATION

GPS 32.613367, -103.496006

0830 TX Time
and/or Jeff - oversight/collect
Samples

QT - contract

Lock unit is 13' x 30'

substrate
equipmentrelease
knit

Time

CS-1 1223

CS-2 1228

CS-3 1230

CS-4 1235

CS-5 1237

CS-6 1240

CS-7 1242

CS-8 1338

CS-9 1343

CS-10 1348

6" deep
Time

CS-11 1350

CS-12 1355

CS-13 1458

SW-LACT 1510

SW-N 1425

SW-S 1440

SW-E 1443

SW-W 1440

X Elizabeth Hunt

1515
different

6/17/20

PP-2062

	Time	PID	Chords
CS-1 6"	1223	89.1	640
CS-2 6"	1225	60.1	452
CS-3 6"	1230	46.1	572
CS-4 6"	1235	25.3	600
CS-5 6"	1237	31.5	580
CS-6 6"	1240	65.6	564
CS-7 6"	1242	41.3	337.2
CS-8 6"	1338	22.3	400
CS-9 6"	1343	21.5	389
CS-10 6"	1348	85.6	351.2
CS-11 6"	1350	7.8	366
CS-12 6"	1355	28.2	353.2
CS-13 2'	1458	120.0	173.6
SW-S	1440	10	540
SW-E	1443	12.3	1212
SW-W	1446	21.5	1094
SW-N	1428	14.2	2500
SW-LACT	1510	248.0	188.8

X Elizabeth J. Hunt

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

COMMENTS

Action 11085

COMMENTS

Operator:	PLAINS MARKETING L.P.	333 Clay St, Ste 1600	Houston, TX77002	OGRID:	34053	Action Number:	11085	Action Type:	C-141
Created By	Comment					Comment Date			
chensley	DTW established by POD L 14552					04/16/2021			

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

CONDITIONS

Action 11085

CONDITIONS OF APPROVAL

Operator:	PLAINS MARKETING L.P.	333 Clay St, Ste 1600	Houston, TX77002	OGRID:	34053	Action Number:	11085	Action Type:	C-141
OCD Reviewer	Condition								
chensley	None								