

State of New Mexico Oil Conservation Division

Incident ID	nFM 2015326612
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Karo anne Hudgers Title: HSE Remediation Specialist II Date: 7/15/2022 Email: Khudgers @ paalp.com Telephone: 575.200.5511
OCD Only Received by: Date:
Received by: Date: Approved
Signature: Jennifer Nobili Date: 07/25/2022

Received by OCD: 7/18/2022 2:01:29 PM



12600 WEST CO RD 91 MIDLAND, TX 79707

OFFICE: 432.653.4203

July 15, 2022

Ms. Jennifer Nobui, P.G.
Environmental Science & Specialist
New Mexico Energy, Mineral and Natural Resources Department
Oil Conservation Division
5200 Oakland Avenue
N.E. Suite 100
Albuquerque, NM 87113

Re: Requested Delineation Soil Sampling

Mewbourne Toro 36 B3BO State Com #1H

Unit Letter B, Section 36, Township 23S, Range 34E

GPS: 32.26731992, -103.4220084

Lea County, New Mexico

NMOCD Incident # NRM2015326612

Ms. Nobui,

Plains Pipeline, L.P. (Plains) has completed the delineation sampling as requested in an email dated June 6, 2022, in reference to the *Soil Remediation Activities Report and Risk Based Closure/Deferral Request,* previously submitted by Plains dated January 12, 2022. In addition, an updated site map indicating the sampling locations has also been included.

As requested by the NMOCD, delineation sampling was necessary for the sample locations collected by Dean Companies, Inc (Dean) to confirm the lateral extent of the release. Dean mobilized to the site on June 17, 2022, to install nine (9) additional boring locations (AH-3 through AH-11) and collect soil samples at one-foot intervals to a maximum depth of five (5) feet below ground surface (bgs). Utilizing a hand auger, soil samples were collected and submitted to Permian Basin Environmental Laboratory (PBELAB) of Midland, Texas for analysis of Total Petroleum Hydrocarbons (TPH) utilizing EPA Method 8015M. Analytical results for all soil samples collected at approximately one (1) foot bgs were below method detection limits (MDL) for TPH. See attached Table 1 for lab analysis results. As the TPH concentrations for all the soil samples at 1-foot depth for each boring indicated concentrations below 100 milligrams/Kilograms (mg/Kg), TPH analysis was not completed for samples collected at deeper depth intervals. With completion of the horizontal delineation, Plains respectfully requests the NMOCD consider incident no. NRM2015326612 for deferral.

If you have any questions, or if additional information is needed, please feel free to contact Elizabeth Stuart (email: elizabethstuart@deandigs.com, cell: 432.653.4203) or Jennifer Perez (email: jenniferperez@deandigs.com, cell: 432.664.3166).

Sincerely,

Elizabeth Stuart

Clizabeth Stuat

Project Manager

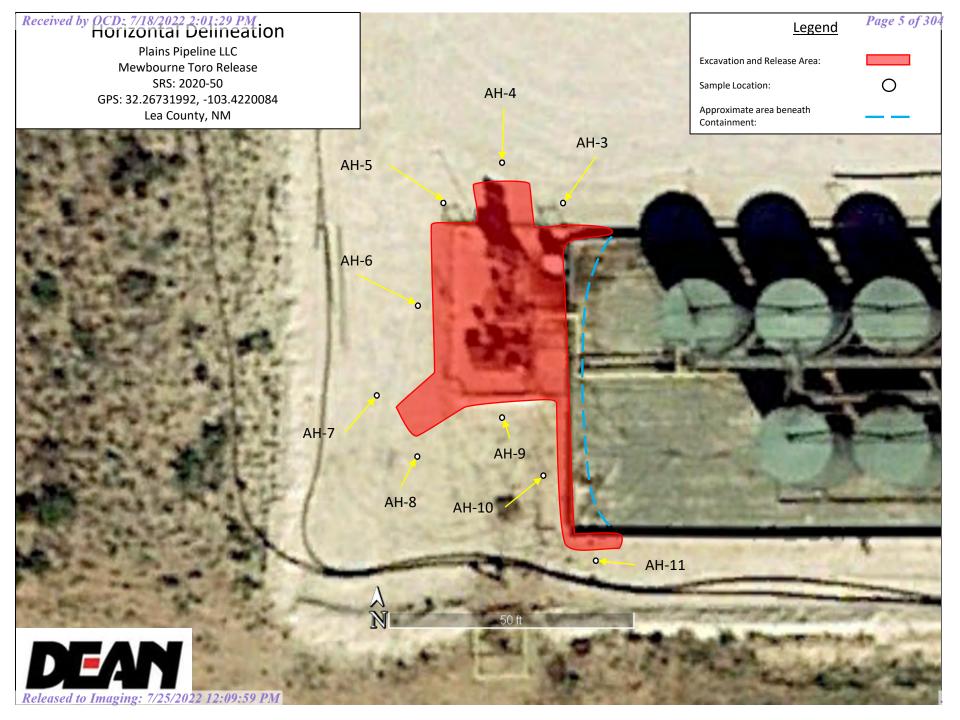
Jennifer Perez, PG.

Professional Geologist



Delineation Chemistry Table Concentrations of TPH in Soil Plains Pipeline, LLC Mewbourne Toro Release Lea County, New Mexico

	SAMPI	LE INFORMATION				METHOD	: EPA 8015M	
SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE DEPTH	SAMPLE METHOD	MATRIX	C6-C12 (mg/kg)	>C12-C28 (mg/kg)	>C28-C35 (mg/kg)	TOTAL TPH (mg/kg)
AH-3 @ 1'	6/27/2022	1 FT	GRAB	SOIL	<26.0	<26.0	<26.0	<26.0
AH-4 @ 1'	6/27/2022	1 FT	GRAB	SOIL	<25.5	<25.5	<25.5	<25.5
AH-5 @ 1'	6/27/2022	1 FT	GRAB	SOIL	<25.5	<25.5	<25.5	<25.5
AH-6 @ 1'	6/27/2022	1 FT	GRAB	SOIL	<25.5	<25.5	<25.5	<25.5
AH-7 @ 1'	6/27/2022	1 FT	GRAB	SOIL	<26.6	<26.6	<26.6	<26.6
AH-8 @ 1'	6/28/2022	1 FT	GRAB	SOIL	<26.3	<26.3	<26.3	<26.3
AH-9 @ 1'	6/28/2022	1 FT	GRAB	SOIL	<26.6	<26.6	<26.6	<26.6
AH-10 @ 1'	6/28/2022	1 FT	GRAB	SOIL	<27.2	<27.2	<27.2	<27.2
AH-11 @ 1'	6/28/2022	1 FT	GRAB	SOIL	<26.6	<26.6	<26.6	<26.6
		NMOCD RECO	MMENDED R	EMEDIATION A	CTION LEVEL		•	100



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



Analytical Report

Prepared for:

Elizabeth Stuart

Dean
12600 W County Rd 91

Midland, TX 79707

Project: Plains Mewbourne Toro

Project Number: PP-22168 Location: Lea County, NM

Lab Order Number: 2F28002



Current Certification

Report Date: 07/05/22

12600 W County Rd 91Project Number:PP-22168Midland TX, 79707Project Manager:Elizabeth Stuart

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-3 @ 1'	2F28002-01	Soil	06/27/22 08:30	06-28-2022 15:23
AH-4 @ 1'	2F28002-06	Soil	06/27/22 08:56	06-28-2022 15:23
AH-5 @ 1'	2F28002-11	Soil	06/27/22 09:18	06-28-2022 15:23
AH-6 @ 1'	2F28002-16	Soil	06/27/22 09:38	06-28-2022 15:23
AH-7 @ 1'	2F28002-21	Soil	06/27/22 10:07	06-28-2022 15:23

12600 W County Rd 91Project Number:PP-22168Midland TX, 79707Project Manager:Elizabeth Stuart

AH-3 @ 1' 2F28002-01 (Soil)

]	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
General Chemistry Parameters by	EPA / Standa	ard Met	hods						
% Moisture	4.0	0.1	%	1	P2F2912	06/29/22 15:52	06/29/22 16:01	ASTM D2216	
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M						
C6-C12	ND	26.0	mg/kg dry	1	P2F2903	06/29/22 09:44	06/29/22 15:48	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2F2903	06/29/22 09:44	06/29/22 15:48	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2F2903	06/29/22 09:44	06/29/22 15:48	TPH 8015M	
Surrogate: 1-Chlorooctane	8	31.1 %	70-130		P2F2903	06/29/22 09:44	06/29/22 15:48	TPH 8015M	
Surrogate: o-Terphenyl	8	86.7 %	70-130		P2F2903	06/29/22 09:44	06/29/22 15:48	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	06/29/22 09:44	06/29/22 15:48	calc	

12600 W County Rd 91Project Number: PP-22168Midland TX, 79707Project Manager: Elizabeth Stuart

AH-4 @ 1' 2F28002-06 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by	EPA / Stand	ard Meth	ods					
% Moisture	2.0	0.1	%	1	P2F2912	06/29/22 15:52	06/29/22 16:01	ASTM D2216
Total Petroleum Hydrocarbons C6-	-C35 by EPA	Method	8015M					
C6-C12	ND	25.5	mg/kg dry	1	P2F2903	06/29/22 09:44	06/29/22 17:42	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P2F2903	06/29/22 09:44	06/29/22 17:42	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P2F2903	06/29/22 09:44	06/29/22 17:42	TPH 8015M
Surrogate: 1-Chlorooctane	;	78.2 %	70-130		P2F2903	06/29/22 09:44	06/29/22 17:42	TPH 8015M
Surrogate: o-Terphenyl	8	82.3 %	70-130		P2F2903	06/29/22 09:44	06/29/22 17:42	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/22 09:44	06/29/22 17:42	calc

C6-C35

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-22168Midland TX, 79707Project Manager: Elizabeth Stuart

AH-5 @ 1' 2F28002-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
General Chemistry Parameters by El	PA / Stand	ard Metl	hods						
% Moisture	2.0	0.1	%	1	P2F2912	06/29/22 15:52	06/29/22 16:01	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA	Method	8015M						
C6-C12	ND	25.5	mg/kg dry	1	P2F2903	06/29/22 09:44	06/29/22 20:20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2F2903	06/29/22 09:44	06/29/22 20:20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2F2903	06/29/22 09:44	06/29/22 20:20	TPH 8015M	
Surrogate: 1-Chlorooctane	8	81.9 %	70-130		P2F2903	06/29/22 09:44	06/29/22 20:20	TPH 8015M	
Surrogate: o-Terphenyl	8	85.7 %	70-130		P2F2903	06/29/22 09:44	06/29/22 20:20	TPH 8015M	
Total Petroleum Hydrocarbon	ND	25.5	mg/kg dry	1	[CALC]	06/29/22 09:44	06/29/22 20:20	calc	

12600 W County Rd 91Project Number:PP-22168Midland TX, 79707Project Manager:Elizabeth Stuart

AH-6 @ 1' 2F28002-16 (Soil)

Analyte Resu	Reporting t Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	I	Permian 1	Basin Envir	onmental	l Lab, L.P.			

General Chemistry Parameters by EPA / Standard Methods

% Moisture	2.0	0.1	%	1	P2F2912	06/29/22 15:52	06/29/22 16:01	ASTM D2216	
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M						
C6-C12	ND	25.5	mg/kg dry	1	P2F2903	06/29/22 09:44	06/29/22 22:11	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2F2903	06/29/22 09:44	06/29/22 22:11	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2F2903	06/29/22 09:44	06/29/22 22:11	TPH 8015M	
Surrogate: 1-Chlorooctane	85	5.2 %	70-130		P2F2903	06/29/22 09:44	06/29/22 22:11	TPH 8015M	
Surrogate: o-Terphenyl	89	0.1 %	70-130		P2F2903	06/29/22 09:44	06/29/22 22:11	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/22 09:44	06/29/22 22:11	calc	

12600 W County Rd 91Project Number: PP-22168Midland TX, 79707Project Manager: Elizabeth Stuart

AH-7 @ 1' 2F28002-21 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

% Moisture	6.0	0.1	%	1	P2F2912	06/29/22 15:52	06/29/22 16:01	ASTM D2216
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M					
C6-C12	ND	26.6	mg/kg dry	1	P2F2904	06/29/22 10:20	07/01/22 06:25	TPH 8015M
>C12-C28	ND	26.6	mg/kg dry	1	P2F2904	06/29/22 10:20	07/01/22 06:25	TPH 8015M
>C28-C35	ND	26.6	mg/kg dry	1	P2F2904	06/29/22 10:20	07/01/22 06:25	TPH 8015M
Surrogate: 1-Chlorooctane	8	3.7 %	70-130		P2F2904	06/29/22 10:20	07/01/22 06:25	TPH 8015M
Surrogate: o-Terphenyl	9	1.3 %	70-130		P2F2904	06/29/22 10:20	07/01/22 06:25	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	06/29/22 10:20	07/01/22 06:25	calc

12600 W County Rd 91Project Number:PP-22168Midland TX, 79707Project Manager:Elizabeth Stuart

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 P2F2912 - *** DEFAULT PREP ***										
Blank (P2F2912-BLK1)				Prepared &	λ Analyzed:	06/29/22				
% Moisture	ND	0.1	%							
Blank (P2F2912-BLK2)				Prepared &	ኔ Analyzed:	06/29/22				
% Moisture	ND	0.1	%							
Blank (P2F2912-BLK3)				Prepared &	ኔ Analyzed:	06/29/22				
% Moisture	ND	0.1	%							
Duplicate (P2F2912-DUP1)	Sour	ce: 2F28002-	03	Prepared &	ኔ Analyzed:	06/29/22				
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P2F2912-DUP2)	Sour	ce: 2F28002-	13	Prepared &	ኔ Analyzed:	06/29/22				
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P2F2912-DUP3)	Sour	rce: 2F28003-	03	Prepared &	ኔ Analyzed:	06/29/22				
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P2F2912-DUP4)	Soui	ce: 2F28003-	13	Prepared &	ኔ Analyzed:	06/29/22				
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P2F2912-DUP5)	Sour	rce: 2F29004-	05	Prepared &	ኔ Analyzed:	06/29/22				
% Moisture	1.0	0.1	%		1.0			0.00	20	

12600 W County Rd 91Project Number: PP-22168Midland TX, 79707Project Manager: Elizabeth Stuart

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P2F2903 - TX 1005										
Blank (P2F2903-BLK1)				Prepared &	Analyzed:	06/29/22				
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	85.2		"	100		85.2	70-130			
Surrogate: o-Terphenyl	44.4		"	50.0		88.7	70-130			
LCS (P2F2903-BS1)				Prepared &	: Analyzed:	06/29/22				
C6-C12	913	25.0	mg/kg	1000		91.3	75-125			
>C12-C28	1070	25.0	"	1000		107	75-125			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	44.7		"	50.0		89.3	70-130			
LCS Dup (P2F2903-BSD1)				Prepared &	: Analyzed:	06/29/22				
C6-C12	932	25.0	mg/kg	1000		93.2	75-125	2.05	20	
>C12-C28	1080	25.0	"	1000		108	75-125	1.46	20	
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	45.5		"	50.0		91.0	70-130			
Calibration Check (P2F2903-CCV1)				Prepared &	: Analyzed:	06/29/22				
C6-C12	447	25.0	mg/kg	500		89.5	85-115			
>C12-C28	496	25.0	"	500		99.2	85-115			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	47.9		"	50.0		95.9	70-130			
Calibration Check (P2F2903-CCV2)				Prepared &	: Analyzed:	06/29/22				
C6-C12	445	25.0	mg/kg	500	-	89.1	85-115			
>C12-C28	506	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	45.6		"	50.0		91.2	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number: PP-22168Midland TX, 79707Project Manager: Elizabeth Stuart

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P2F2903 - TX 1005										
Matrix Spike (P2F2903-MS1)	Sour	ce: 2F28002	-20	Prepared: (06/29/22 Aı	nalyzed: 06	/30/22			
C6-C12	1040	27.5	mg/kg dry	1100	17.3	93.0	75-125			
>C12-C28	1170	27.5	"	1100	ND	107	75-125			
Surrogate: 1-Chlorooctane	141		"	110		128	70-130			
Surrogate: o-Terphenyl	50.0		"	54.9		90.9	70-130			
Matrix Spike Dup (P2F2903-MSD1)	Sour	ce: 2F28002	-20	Prepared: (06/29/22 Aı	nalyzed: 06	/30/22			
C6-C12	1050	27.5	mg/kg dry	1100	17.3	94.2	75-125	1.26	20	
>C12-C28	1170	27.5	"	1100	ND	106	75-125	0.511	20	
Surrogate: 1-Chlorooctane	97.4		"	110		88.6	70-130			
Surrogate: o-Terphenyl	51.7		"	54.9		94.1	70-130			
Batch P2F2904 - TX 1005										
Blank (P2F2904-BLK1)				Prepared: (06/29/22 Aı	nalyzed: 07	/01/22			
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	88.8		"	100		88.8	70-130			
Surrogate: o-Terphenyl	46.0		"	50.0		92.1	70-130			
LCS (P2F2904-BS1)				Prepared: (06/29/22 Aı	nalyzed: 07	/01/22			
C6-C12	948	25.0	mg/kg	1000		94.8	75-125			
>C12-C28	1000	25.0	"	1000		100	75-125			
Surrogate: 1-Chlorooctane	94.5		"	100		94.5	70-130			
Surrogate: o-Terphenyl	51.8		"	50.0		104	70-130			
LCS Dup (P2F2904-BSD1)				Prepared: (06/29/22 Aı	nalyzed: 07	/01/22			
C6-C12	959	25.0	mg/kg	1000	<u></u>	95.9	75-125	1.23	20	
>C12-C28	1010	25.0	"	1000		101	75-125	0.786	20	
Surrogate: 1-Chlorooctane	94.5		"	100		94.5	70-130			
Surrogate: o-Terphenyl	50.9		"	50.0		102	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number: PP-22168Midland TX, 79707Project Manager: Elizabeth Stuart

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
Analyte	Resuit	Lillit	Units	Level	Resuit	70KEC	Lillits	KrD	Liiiit	Notes
Batch P2F2904 - TX 1005										
Calibration Check (P2F2904-CCV1)				Prepared: (06/29/22 A	nalyzed: 07	/02/22			
C6-C12	431	25.0	mg/kg	500		86.2	85-115			
>C12-C28	446	25.0	"	500		89.2	85-115			
Surrogate: 1-Chlorooctane	95.5		"	100		95.5	70-130			
Surrogate: o-Terphenyl	51.4		"	50.0		103	70-130			
Calibration Check (P2F2904-CCV2)				Prepared: (06/29/22 A	nalyzed: 07	/02/22			
C6-C12	427	25.0	mg/kg	500		85.4	85-115			
>C12-C28	442	25.0	"	500		88.3	85-115			
Surrogate: 1-Chlorooctane	93.8		"	100		93.8	70-130			
Surrogate: o-Terphenyl	51.0		"	50.0		102	70-130			
Calibration Check (P2F2904-CCV3)				Prepared: (06/29/22 A	nalyzed: 07	/02/22			
C6-C12	441	25.0	mg/kg	500		88.2	85-115			
>C12-C28	441	25.0	"	500		88.1	85-115			
Surrogate: 1-Chlorooctane	93.7		"	100		93.7	70-130			
Surrogate: o-Terphenyl	50.4		"	50.0		101	70-130			
Matrix Spike (P2F2904-MS1)	Sour	ce: 2F28003	-15	Prepared: (06/29/22 A	nalyzed: 07	/01/22			
C6-C12	963	27.5	mg/kg dry	1100	12.0	86.5	75-125			
>C12-C28	1100	27.5	"	1100	15.5	98.4	75-125			
Surrogate: 1-Chlorooctane	129		"	110		118	70-130			
Surrogate: o-Terphenyl	48.2		"	54.9		87.8	70-130			
Matrix Spike Dup (P2F2904-MSD1)	Source	ee: 2F28003	-15	Prepared: (06/29/22 A	nalyzed: 07	/01/22			
C6-C12	911	27.5	mg/kg dry	1100	12.0	81.8	75-125	5.62	20	
>C12-C28	1040	27.5	"	1100	15.5	93.3	75-125	5.35	20	
Surrogate: 1-Chlorooctane	123		"	110		112	70-130			
Surrogate: o-Terphenyl	45.9		"	54.9		83.5	70-130			

12600 W County Rd 91 Project Number: PP-22168 Midland TX, 79707 Project Manager: Elizabeth Stuart

Notes and Definitions

ROI Received on Ice

NPBEL CO Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

Analyte DETECTED DET

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference Laboratory Control Spike

MS Matrix Spike Duplicate Dup

LCS

	R. D. Burron		
Report Approved By:	Sun Sin	Date:	7/5/2022

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

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		7				1					_				NP=Non-Potable Specify Other	<u> </u>	<u> </u>	<u> </u>	Š	ğ	Ř	Ţ		Pro	
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Temperature Upon Receipt: Received: L / °C Adjusted: 2, 3 °C	Sample Hand Delivered by Sampler/Client Re by Courier? UPS	Custody seals on container(s) Custody seals on cooler(s)	VOCs Free of Headspace?	Laboratory Comments: Sample Containers Intact?	-				\dashv	-	-				CHLORIDES				Š	×	龙	<u>ا</u> "	# [12]	×.	
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Temperature Upon Receipt: Received: 1.7 °C Adjusted: 2.7 °C	ple Hand Delivered by Sampler/Client Rep. ? by Course?	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	VOCs Free of Headspace?	Laboratory comments: Sample Containers Intact?											TOX			Analyze For:	cjbryant@paalp.com		WORK ORDER # 189411111111111 SQS	Ž		8	432
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Field Filtered Total #. of Containers Ice HNO ₂ 250,mi Pely HCI H ₂ SO ₄ NaOH Ne ₂ S ₂ O ₃ None 1L Poly NaOH/ZnAc DW-Drinking Water SL=Sludge GW = Groundwater Sl=Sludge GW = GW = GW = GW = GW = GW = GW = GW =	Date Sampled Time Sampled	ginning Depth ding Depth	Clab use only) ORDER #: 252002 FIELD CODE
Report Format X Sta	Fax No:	Modina	Telephone No: 432-230-0920 Sampler Signature:
Project Loc: Lea County, NM WORK ORDER # 1907/A-1984-800 SAS: 2020~		R 91 79707	Company Address: 12600 WCR 91 City/State/Zip: Midland TX 79707
Permian Basin Environmental Lab, LP 1400 Rankin Hwy Midiand, Texas 79701 Project Name: Mewbourne Toro Project#: PP-22168		Ywart	Project Manager: Elizabeth Stuart Company Name Dean

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



Analytical Report

Prepared for:

Elizabeth Stuart

Dean
12600 W County Rd 91

Midland, TX 79707

Project: Plains Mewbourne Toro Project Number: PP-22168 Location: Lea County, NM

Lab Order Number: 2F28003



Current Certification

Report Date: 07/05/22

12600 W County Rd 91Project Number:PP-22168Midland TX, 79707Project Manager:Elizabeth Stuart

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-8 @ 1'	2F28003-01	Soil	06/28/22 08:38	09-28-2022 16:05
AH-9 @ 1'	2F28003-06	Soil	06/28/22 08:57	09-28-2022 16:05
AH-10 @ 1'	2F28003-11	Soil	06/28/22 09:20	09-28-2022 16:05
AH-11 @ 1'	2F28003-16	Soil	06/28/22 10:02	09-28-2022 16:05

12600 W County Rd 91Project Number:PP-22168Midland TX, 79707Project Manager:Elizabeth Stuart

AH-8 @ 1' 2F28003-01 (Soil)

]	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
General Chemistry Parameters by	EPA / Standa	ard Metl	hods			,			
% Moisture	5.0	0.1	%	1	P2F2912	06/29/22 15:52	06/29/22 16:01	ASTM D2216	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	ND	26.3	mg/kg dry	1	P2F2904	06/29/22 10:20	07/01/22 08:21	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P2F2904	06/29/22 10:20	07/01/22 08:21	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P2F2904	06/29/22 10:20	07/01/22 08:21	TPH 8015M	
Surrogate: 1-Chlorooctane	8	34.2 %	70-130		P2F2904	06/29/22 10:20	07/01/22 08:21	TPH 8015M	
Surrogate: o-Terphenyl	8	37.6 %	70-130		P2F2904	06/29/22 10:20	07/01/22 08:21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	06/29/22 10:20	07/01/22 08:21	calc	

12600 W County Rd 91Project Number:PP-22168Midland TX, 79707Project Manager:Elizabeth Stuart

ND

ND

ND

AH-9 @ 1' 2F28003-06 (Soil)

Reporting Analyte Result Limit Units Dilution Batch Prepared Analyzed Method No Permian Basin Environmental Lab, L.P.														
		Pe	ermian B	asin Envii	ronmental L	ab, L.P.								
General Chemistry Paramete	General Chemistry Parameters by EPA / Standard Methods													
% Moisture	6.0	0.1	%	1	P2F2912	06/29/22 15:52	06/29/22 16:01	ASTM D2216						
Total Petroleum Hydrocarbon	ns C6-C35 by EPA	Method	8015M											
C6-C12	ND	26.6	mg/kg dry	1	P2F2904	06/29/22 10:20	07/01/22 11:06	TPH 8015M						

P2F2904

P2F2904

P2F2904

P2F2904

[CALC]

06/29/22 10:20

06/29/22 10:20

06/29/22 10:20

06/29/22 10:20

06/29/22 10:20

07/01/22 11:06

07/01/22 11:06

07/01/22 11:06

07/01/22 11:06

07/01/22 11:06

TPH 8015M

TPH 8015M

TPH 8015M

TPH 8015M

calc

mg/kg dry

mg/kg dry

70-130

70-130

mg/kg dry

26.6

26.6

26.6

81.7 %

86.2 %

Total Petroleum Hydrocarbon C6-C35

>C12-C28

>C28-C35

Surrogate: 1-Chlorooctane

Surrogate: o-Terphenyl

12600 W County Rd 91Project Number: PP-22168Midland TX, 79707Project Manager: Elizabeth Stuart

AH-10 @ 1' 2F28003-11 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by 1	EPA / Standa	ard Meth	nods					
% Moisture	8.0	0.1	%	1	P2F2912	06/29/22 15:52	06/29/22 16:01	ASTM D2216
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M					
C6-C12	ND	27.2	mg/kg dry	1	P2F2904	06/29/22 10:20	07/01/22 13:05	TPH 8015M
>C12-C28	ND	27.2	mg/kg dry	1	P2F2904	06/29/22 10:20	07/01/22 13:05	TPH 8015M
>C28-C35	ND	27.2	mg/kg dry	1	P2F2904	06/29/22 10:20	07/01/22 13:05	TPH 8015M
Surrogate: 1-Chlorooctane	7	6.8 %	70-130		P2F2904	06/29/22 10:20	07/01/22 13:05	TPH 8015M
Surrogate: o-Terphenyl	8	1.0 %	70-130		P2F2904	06/29/22 10:20	07/01/22 13:05	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	06/29/22 10:20	07/01/22 13:05	calc

12600 W County Rd 91Project Number:PP-22168Midland TX, 79707Project Manager:Elizabeth Stuart

AH-11 @ 1' 2F28003-16 (Soil)

Reporting Analyte Result Limit Units Dilution Batch Prepared Analyzed Method No										ŀ
			Reporting							
	Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

% Moisture	6.0	0.1	%	1	P2F2912	06/29/22 15:52	06/29/22 16:01	ASTM D2216
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M					
C6-C12	ND	26.6	mg/kg dry	1	P2F2909	06/29/22 11:30	06/30/22 10:03	TPH 8015M
>C12-C28	ND	26.6	mg/kg dry	1	P2F2909	06/29/22 11:30	06/30/22 10:03	TPH 8015M
>C28-C35	ND	26.6	mg/kg dry	1	P2F2909	06/29/22 11:30	06/30/22 10:03	TPH 8015M
Surrogate: 1-Chlorooctane	8	86.9 %	70-130		P2F2909	06/29/22 11:30	06/30/22 10:03	TPH 8015M
Surrogate: o-Terphenyl	g	92.0 %	70-130		P2F2909	06/29/22 11:30	06/30/22 10:03	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	06/29/22 11:30	06/30/22 10:03	calc

12600 W County Rd 91Project Number:PP-22168Midland TX, 79707Project Manager:Elizabeth Stuart

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
Analyte	Resuit	LIIIII	Ullits	Level	Resuit	70KEC	LIIIIIS	KrD	LIIIII	notes
Batch P2F2912 - *** DEFAULT PREP ***										
Blank (P2F2912-BLK1)				Prepared &	Analyzed:	06/29/22				
% Moisture	ND	0.1	%							
Blank (P2F2912-BLK2)				Prepared &	Analyzed:	06/29/22				
% Moisture	ND	0.1	%							
Blank (P2F2912-BLK3)				Prepared &	Analyzed:	06/29/22				
% Moisture	ND	0.1	%							
Duplicate (P2F2912-DUP1)	Sour	rce: 2F28002-	03	Prepared &	Analyzed:	06/29/22				
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P2F2912-DUP2)	Sou	rce: 2F28002-	13	Prepared 8	Analyzed:	06/29/22				
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P2F2912-DUP3)	Sou	rce: 2F28003-	03	Prepared &	Analyzed:	06/29/22				
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P2F2912-DUP4)	Sou	ce: 2F28003-	13	Prepared &	Analyzed:	06/29/22				
% Moisture	7.0	0.1	%	•	7.0			0.00	20	
Duplicate (P2F2912-DUP5)	Sour	ce: 2F29004-	05	Prepared &	Analyzed:	06/29/22				
% Moisture	1.0	0.1	%	*	1.0			0.00	20	

12600 W County Rd 91Project Number: PP-22168Midland TX, 79707Project Manager: Elizabeth Stuart

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P2F2904 - TX 1005										
Blank (P2F2904-BLK1)				Prepared: ()6/29/22 Aı	nalyzed: 07	/01/22			
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	88.8		"	100		88.8	70-130			
Surrogate: o-Terphenyl	46.0		"	50.0		92.1	70-130			
LCS (P2F2904-BS1)				Prepared: (06/29/22 Aı	nalyzed: 07	/01/22			
C6-C12	948	25.0	mg/kg	1000		94.8	75-125			
>C12-C28	1000	25.0	"	1000		100	75-125			
Surrogate: 1-Chlorooctane	94.5		"	100		94.5	70-130			
Surrogate: o-Terphenyl	51.8		"	50.0		104	70-130			
LCS Dup (P2F2904-BSD1)				Prepared: ()6/29/22 Aı	nalyzed: 07	/01/22			
C6-C12	959	25.0	mg/kg	1000		95.9	75-125	1.23	20	
>C12-C28	1010	25.0	"	1000		101	75-125	0.786	20	
Surrogate: 1-Chlorooctane	94.5		"	100		94.5	70-130			
Surrogate: o-Terphenyl	50.9		"	50.0		102	70-130			
Calibration Check (P2F2904-CCV1)				Prepared: ()6/29/22 Aı	nalyzed: 07	//02/22			
C6-C12	431	25.0	mg/kg	500		86.2	85-115			
>C12-C28	446	25.0	"	500		89.2	85-115			
Surrogate: 1-Chlorooctane	95.5		"	100		95.5	70-130			
Surrogate: o-Terphenyl	51.4		"	50.0		103	70-130			
Calibration Check (P2F2904-CCV2)				Prepared: ()6/29/22 Aı	nalyzed: 07	/02/22			
C6-C12	427	25.0	mg/kg	500		85.4	85-115			
>C12-C28	442	25.0	"	500		88.3	85-115			
Surrogate: 1-Chlorooctane	93.8		"	100		93.8	70-130			
Surrogate: o-Terphenyl	51.0		"	50.0		102	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number: PP-22168Midland TX, 79707Project Manager: Elizabeth Stuart

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 P2F2904 - TX 1005						,				
Calibration Check (P2F2904-CCV3)				Prepared: (06/29/22 A:	nalvzed: 07	//02/22			
C6-C12	441	25.0	mg/kg	500		88.2	85-115			
>C12-C28	441	25.0	"	500		88.1	85-115			
Surrogate: 1-Chlorooctane	93.7		"	100		93.7	70-130			
Surrogate: o-Terphenyl	50.4		"	50.0		101	70-130			
Matrix Spike (P2F2904-MS1)	Sou	rce: 2F28003	-15	Prepared: (06/29/22 A	nalyzed: 07	/01/22			
C6-C12	963	27.5	mg/kg dry	1100	12.0	86.5	75-125			
>C12-C28	1100	27.5	"	1100	15.5	98.4	75-125			
Surrogate: 1-Chlorooctane	129		"	110		118	70-130			
Surrogate: o-Terphenyl	48.2		"	54.9		87.8	70-130			
Matrix Spike Dup (P2F2904-MSD1)	Sou	rce: 2F28003	-15	Prepared: (06/29/22 A	nalyzed: 07	/01/22			
C6-C12	911	27.5	mg/kg dry	1100	12.0	81.8	75-125	5.62	20	
>C12-C28	1040	27.5	"	1100	15.5	93.3	75-125	5.35	20	
Surrogate: 1-Chlorooctane	123		"	110		112	70-130			
Surrogate: o-Terphenyl	45.9		"	54.9		83.5	70-130			
Batch P2F2909 - TX 1005										
Blank (P2F2909-BLK1)				Prepared: (06/29/22 A	nalyzed: 06	/30/22			
C6-C12	ND	25.0	mg/kg	-						
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	91.9		"	100		91.9	70-130			
Surrogate: o-Terphenyl	47.9		"	50.0		95.8	70-130			
LCS (P2F2909-BS1)				Prepared: (06/29/22 A	nalyzed: 06	/30/22			
C6-C12	907	25.0	mg/kg	1000		90.7	75-125	<u> </u>		<u> </u>
>C12-C28	1020	25.0	"	1000		102	75-125			
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			
Surrogate: o-Terphenyl	47.1		"	50.0		94.2	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number: PP-22168Midland TX, 79707Project Manager: Elizabeth Stuart

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 P2F2909 - TX 1005										
LCS Dup (P2F2909-BSD1)				Prepared: ()6/29/22 A	nalyzed: 06	5/30/22			
C6-C12	928	25.0	mg/kg	1000		92.8	75-125	2.24	20	
>C12-C28	1000	25.0	"	1000		100	75-125	2.31	20	
Surrogate: 1-Chlorooctane	92.0		"	100		92.0	70-130			
Surrogate: o-Terphenyl	52.4		"	50.0		105	70-130			
Calibration Check (P2F2909-CCV1)				Prepared: ()6/29/22 A	nalyzed: 06	5/30/22			
C6-C12	442	25.0	mg/kg	500		88.4	85-115			
>C12-C28	506	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	45.7		"	50.0		91.5	70-130			
Calibration Check (P2F2909-CCV2)				Prepared: ()6/29/22 A	nalyzed: 06	5/30/22			
C6-C12	484	25.0	mg/kg	500		96.8	85-115			
>C12-C28	520	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	48.9		"	50.0		97.8	70-130			
Calibration Check (P2F2909-CCV3)				Prepared: ()6/29/22 A	nalyzed: 06	5/30/22			
C6-C12	439	25.0	mg/kg	500		87.9	85-115			
>C12-C28	507	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	46.5		"	50.0		93.0	70-130			
Matrix Spike (P2F2909-MS1)	Sou	rce: 2F29004	-04	Prepared: ()6/29/22 A	nalyzed: 06	5/30/22			
C6-C12	698	25.3	mg/kg dry	1010	24.2	66.7	75-125			QM-0
>C12-C28	805	25.3	"	1010	71.9	72.6	75-125			QM-0
Surrogate: 1-Chlorooctane	111		"	101		110	70-130			
Surrogate: o-Terphenyl	43.6		"	50.5		86.4	70-130			

12600 W County Rd 91 Project Number: PP-22168 Midland TX, 79707 Project Manager: Elizabeth Stuart

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

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nalyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Matrix Spike Dup (P2F2909-MSD1)	Source	e: 2F29004-04	Prepared: (06/29/22 A	nalyzed: 00	6/30/22			
C6-C12	686	25.3 mg/kg dry	1010	24.2	65.5	75-125	1.88	20	QM-05
>C12-C28	856	25.3 "	1010	71.9	77.6	75-125	6.63	20	
Surrogate: 1-Chlorooctane	113	"	101		112	70-130			
Surrogate: o-Terphenyl	45.0	"	50.5		89.2	70-130			

12600 W County Rd 91Project Number:PP-22168Midland TX, 79707Project Manager:Elizabeth Stuart

Notes and Definitions

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD

were within acceptance limits showing that the laboratory is in control and the data is acceptable.

NPBEL CC Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

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

	Drew	Darron			
Report Approved By:			Date:	7/5/2022	

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.

12600 W County Rd 91Project Number:PP-22168Midland TX, 79707Project Manager:Elizabeth Stuart

Permian Basin Environmental Lab, L.P.

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

SOIL REMEDIATION ACTIVITIES REPORT AND RISK BASED CLOSURE/DEFERRAL REQUEST

PLAINS PIPELINE, L.P.

MEWBOURNE TORO 36 B3BO STATE COM #1H RELEASE

LEA COUNTY, NM

NMOCD INCIDENT #: NRM2015326612

SRS #: 2020-050

Table of Contents

- 1. Introduction
- 2. Release Description and Response
- 3. NMOCD Regulatory Limits
- 4. Soil Assessment Activities and Sample Analysis
- 5. Soil Remediation and Confirmation Soil Sampling
- 6. Soil Disposal and Site Restoration
- 7. NMOCD Variance and Deferral Request and Response
- 8. Initial Variance and Closure Request with NMOCD Response
- 9. Additional Delineation Sampling as Requested by NMOCD
- 10. Variance and Closure Request

Table

- Table 1 Delineation Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil
- Table 2 Confirmation Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil

Figures

- Figure 1. Site Location Map
- Figure 2. Topographic Map
- Figure 3. Site Location Relative to Known Regional Karst Topography Map
- Figure 4. Site Details and Delineation Soil Sample Location Map
- Figure 5. Site Details and Confirmation Soil Sample Location Map

Appendices

- Appendix A. NMOCD Initial C-141 Form
- Appendix B. NMOSE Water Well
- Appendix C. Soil Boring Log
- Appendix D. Laboratory Analytical Reports
- Appendix E. Photographic Documentation
- Appendix F. Email Deferral Request and NMOCD Response
- Appendix G. NMOCD Email Response to Variance Request

Received by OCD: 7/18/2022 2:01:29 PM

Page 38 of 304

January 6, 2022

New Mexico Oil Conservation Division District 1

1625 N. French Drive

Hobbs, New Mexico 88240

Re: Soil Remediation Activities Report and Risk Based Closure/Deferral Request

Mewbourne Toro 36 B3B0 State Com #1H Release

Unit Letter B, Section 36, Township 23S, Range 34E

GPS: N 32.26731992°, W -103.4220084°

Lea County, New Mexico

NMOCD Incident #: NRM2015326612

SRS #: 2020-050

1. Introduction

Dean Companies, Inc. (Dean) is pleased to present this Soil Remediation Activities Report and

Risk Based Closure/Deferral Request on behalf of Plains Pipeline, L.P. (Plains) to document the

field soil remediation activities that were conducted at the Mewbourne Toro 36 B3B0 State Com

#1H Release site. The crude oil release occurred from a LACT unit, located approximately 16.97

miles northwest of Jal, Lea County, New Mexico in Unit Letter B, Section 36, Township 23S, and

Range 34E. The GPS coordinates for the site is N 32.26731992° and W -103.4220084°. A "Site

Location Map" is provided as Figure 1 and "Topographic Map" as Figure 2. The release was located on privately held land.

2. Release Description and Response

On May 23, 2020, a crude oil release occurred at the Mewbourne Toro 36 B3B0 State Com #1H and was attributed to an air eliminator failure on the LACT unit. Approximately ten and two-tenths (10.2) barrels (bbls) of crude oil was released with five (5) bbls recovered for a net loss of five and two-tenths (5.2) bbls of crude oil. The release was contained onsite adjacent to the LACT unit and upon the tank battery pad affecting an area measuring approximately forty-five (45) feet (ft) in length by thirty (30) ft in width to an estimated maximum depth of eleven (11) ft below ground surface (bgs) by the LACT unit and thirty (30) ft in length by three (3) ft in width to a depth of greater than nine (9) ft bgs adjacent and beneath the tank battery and affiliated berm and liner.

On May 29, 2020, Dean was assigned management oversite responsibilities for impacted soil delineation, remediation, soil sampling, site restoration, and reporting activities by Plains. On June 1, 2020, Plains submitted the initial C-141 Form to the NMOCD (Appendix A) and the landowner notified.

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), the New Mexico Bureau of Geology & Mineral Resources (NMBGMR), and The United States Geological Survey (USGS) were accessed to determine if any registered water wells were located in or near Unit Letter B, Section 36, Township 23S, and Range 34E. Neither of the three databases identified any registered water wells within a half mile of the site. The closest well (C 03620 POD1) was located

in Section 32, Township 23S, and Range 34E with a depth to groundwater at 130 feet bgs. See Appendix B for the referenced water well. At the request of the NMOCD, a soil boring was installed to a depth of eighty (80) ft bgs at the site on April 20, 2021. The boring was left open for 24 hours prior to being gauged with a water level indicator to determine if any water was located within the boring. The boring was found to be dry, then grouted to the surface with bentonite chips mixed with water. See Appendix C for Soil Boring Log. See Figures 4 and 5 for soil boring location. In addition, according to the Bureau of Land Management (BLM) the site is located in an area of low potential karst topography. See Figure 3 "Site Location Relative to Known Regional Karst Topography". As outlined in 19.15.29.12.B. (4) NMAC, the release does not occur in referenced sensitive areas, with the nearest water body feature being the Monument Draw located approximately 17.62 miles east of the site. Meeting the previous criteria, the NMOCD restoration and cleanup levels for soils impacted by hydrocarbons with low karst topography and groundwater greater than eighty (80) ft bgs is as follows:

•	Chloride	10,000 mg/Kg
•	TPH (Gro+Dro)	1,000 mg/Kg
•	Total TPH	2,500 mg/Kg
•	Benzene	10 mg/Kg
•	Total BTEX	50 mg/Kg

4. Soil Assessment Activities and Sample Analysis

Between May 29 and July 30, 2020, Dean Personnel conducted soil assessment activities at the release site. A hand auger was utilized to collect soil samples from the site to determine depth of hydrocarbon and chloride impacts. Soil samples were collected at one (1) ft to two (2) ft intervals to a maximum depth of fifteen (15) feet bgs or until refusal was encountered due to underlying limestone. Seven (7) auger hole locations (AH-1, AH-1E, AH-1SE, AH-1NE, AH-2, NE Wall, and SE Wall) were installed at the site. Two (2) of the auger holes (AH-1 and AH-2) were installed

within the LACT unit area, while five (5) auger holes (AH-1E, AH-1SE, AH-1 NE, NE Wall, and SE Wall) were installed adjacent to and horizontally beneath the tank battery with all collected soils placed into laboratory-provided sample containers, labeled, stored on ice, and transported under proper chain-of-custody documentation to Permian Basin Environmental Labs (PBELAB) of Midland, Texas. Soil samples were analyzed for total petroleum hydrocarbons (TPH) utilizing Method SW-846 8015M, with select samples analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) utilizing Method SW-846 8021B, and chlorides utilizing Method E300.0. See Figure 4 "Site Details and Delineation Soil Sample Location Map". Benzene concentrations were above the NMOCD standards of 10 milligrams per kilogram (mg/Kg) for the following five (5) soil samples AH-1 @ 3' (20.1 mg/Kg), AH-1 @ 5' (22.7 mg/Kg), AH-1 @ 7' (10.1 mg/Kg), AH-2 @ 1' (11.3 mg/Kg) and AH-2 @ 3' (20 mg/Kg). All remaining soil samples were below the NMOCD standards of 10 mg/Kg Benzene. Total BTEX concentrations were above the NMOCD standards of 50 mg/Kg for the following eleven (11) soil samples AH-1 @ 1' (178.61 mg/Kg), AH-1 @ 3' (171.3 mg/Kg), AH-1 @ 5' (186.7 mg/Kg), AH-1 @ 7' (113.9 mg/Kg), AH-1E @ 3' (78.64 mg/Kg), AH-1 NE @ 5' (79.01 mg/Kg), AH-1 NE @ 7' (80.99 mg/Kg), AH-2 @ 1' (198.2 mg/Kg), AH-2 @ 3' (206.3 mg/Kg), AH-2 @ 5' (67.8 mg/Kg), and AH-2 @ 7' (127.17 mg/Kg). All remaining soil samples were below the NMOCD standards of 50 mg/Kg Total BTEX. The TPH (Gro + Dro) and Total TPH were above either or both the NMOCD standards of 1,000 mg/Kg (Gro + Dro) and 2,500 mg/Kg for Total TPH for soil samples AH-1 @ (1', 3', 5', 7', 9', and 11'), AH-1 E @ 3', AH-1 SE @ (5', 7', 8', and 9'), AH-1 NE @ (3', 5', 7', and 9'), AH-2 @ (1', 3', 5', 7', 11', and 13'), and NE Wall @ (1', 3', and 5'). The TPH (Gro + Dro) concentrations ranged from 1,186 mg/Kg for soil sample AH-2 @ 11' to 29,700 mg/Kg for soil sample AH-2 @ 3', while Total TPH concentrations ranged from 3,348 mg/Kg for soil sample AH-1 SE @ 7' to 32,490 mg/Kg for soil sample AH-2 @ 3'. All other remaining soil samples were below the NMOCD standards for TPH. Chloride concentrations were below the NMOCD standards of 10,000 mg/Kg for all soil samples analyzed and ranged from 11.1 mg/Kg for soil samples AH-1 @ 7' to 171 mg/Kg for soil sample SE Wall @ 1'. See Table 1 for delineation analytical results. Laboratory reports containing analytical methods, results, and chain-of-custody documents are included in Appendix C. See site photographs documenting site conditions in Appendix D.

The area represented by auger hole AH-1 SE @ 9' was extended to a maximum depth of nine (9) ft bgs beneath the adjacent producer's tank battery and was not delineated due to auger refusal with the underlying limestone. The TPH (Gro + Dro) and Total TPH for AH-1 SE @ 9' exceeded the NMOCD standards of 1,000 mg/Kg (Gro + Dro) and 2,500 mg/Kg Total TPH with concentrations of 5,119 mg/Kg and 6,299 mg/Kg, respectively. In accordance with the soil boring SB-1, hard limestone was encountered at 10 ft bgs as found during installation of AH-1 SE. See site photograph 11 showing area represented by AH-1 SE with limited access.

5. Soil Remediation and Confirmation Soil Sampling

Between May 29 and September 16, 2020, third-party soil remediation activities were performed at the Mewbourne Toro Release site. Soil remediation commenced utilizing hand excavation of hydrocarbon impacted soils adjacent to the LACT unit and the onsite piping with the excavated soils stockpiled on plastic. Final dimensions of the excavation were approximately forty-five (45) ft in width by thirty (30) ft in length to a maximum depth of eight (8) ft bgs within and adjacent to the LACT unit and thirty (30) ft in width by three (3) ft in length to a depth of two (2) ft bgs adjacent to the producer's lined tank battery. Approximately 300 cubic yards of soil were removed and stockpiled on plastic at the site.

Due to limited accessibility and to ensure the structural integrity of the LACT unit, the site was excavated to a maximum depth of eight (8) ft bgs. To ensure the integrity of the vibrating equipment within the LACT unit and to prevent a possible collapse of soils around the unit, the remaining three (3) to five (5) ft of impacted soils (represented by AH-1 NE, NE Wall, and AH-1 SE) were left in-situ at the site along the east wall of the excavation, which abuts against the

producer's tank battery. Soils represented by AH-1 SE were not accessible due to narrow spacing of two (2) ft between tank battery and fencing. Plain's requests deferral remediation of these soils until time of abandonment or replacement/upgrade to the LACT unit or tank battery.

In addition, the hydrocarbons from the LACT unit release migrated beneath the adjacent lined steel berm of the producer's tank battery. (See photographs 8, 9, and 11 showing steel berm, liner, and location of tank battery. Grab soil samples were collected from auger holes AH-1 NE, NE Wall, and AH-1 SE installed adjacent and beneath the Mewbourne tank battery and liner. Since it is not technically feasible to remediate the soils with the existing equipment onsite, Plain's requests deferral of the remediation of the remaining impacted soils until time of abandonment or upgrade to the LACT unit and or the tank battery. See Figure 4 showing presumed impact of release beneath Mewbourne tank battery and liner.

On July 31, 2020, after initial excavation activities, one (1) composite bottom hole sample (BH-1 @ 4') along with seven (7) composite five (5) point wall samples (BH-1 NSW @ 2', BH-1 ESW @ 2', BH-1 WSW @ 2', BH-1 SSW @ 2', SSW @ 2', SSW @ 8' and WSW @ 2') were collected within two hundred (200) square ft of each other from the bottom and wall samples and submitted for analysis of TPH, BTEX, and Chlorides to PBELab. Soil sample BH-1 SSW @ 3' exceeded the NMOCD standard for Total BTEX of 50 mg/Kg with a concentration of 94.94 mg/Kg along with the TPH (Gro + Dro) and Total TPH standards of 1,000 mg/kg and 2,500 mg/Kg with concentrations of 10,170 mg/Kg and 11,094 mg/Kg, respectively. All other samples were below the NMOCD standards for both benzene, total BTEX, and TPH. Chlorides were below the NMOCD standards of 10,000 mg/Kg with concentrations ranging from 60.4 mg/K for soil sample BH-1 SSW @ 3' to 145 mg/Kg for soil sample BH-1 NSW @ 2'.

After further excavation in the vicinity of BH-1 SSW @ 3', the site was resampled on September 3, 2020. A soil sample was collected from BH-1 SSW @ 3' and submitted for analysis of BTEX and Total TPH. Analytical concentrations were below the NMOCD standards for benzene, Total

BTEX, and Total TPH. However, the TPH (Gro + Dro) exceeded the NMOCD standard with a concentration of 2,100 mg/Kg.

Additional soils were excavated in the vicinity of BH-1 SSW @ 3' and the area resampled on September 16, 2020. A composite soil sample was collected from BH-1 SSW @ 4' and submitted for analysis of Total TPH. Analytical concentrations were below the NMOCD standards for TPH (Gro + Dro) and Total TPH with results of <26.6 mg/Kg. See Figure 5 "Site Details & Confirmation Soil Sample Location Map" for soil sample location.

Due to limited accessibility, the site was excavated to depths ranging from three (3) ft bgs to eight (8) ft bgs within and adjacent to the LACT unit and associated tank battery. Mechanical means of excavation was not feasible at the site due to the tight quarters, underground piping, and berm restrictions. Thus, additional hydrocarbon impacted soils above NMOCD standards for BTEX and TPH could not be excavated to depth and were left in-situ in the areas near AH-1, AH-2 and underneath the tank battery represented by AH-1 NE and AH-1 SE which were installed horizontally. See Site Photographs in Appendix D. Final dimensions of the excavation were approximately forty-five (45) feet (ft) in length by thirty (30) ft in width to an estimated maximum depth of eight (8) ft bgs by the LACT unit and thirty (30) ft in length by three (3) ft in width to a depth of three (3) ft bgs adjacent to the tank battery.

6. Soil Disposal and Site Restoration

After collecting requisite samples from the LACT unit excavation, Plains was onsite in September 2020 to backfill the excavation with locally sourced non-impacted soils and the site brought up to grade. Approximately 300 cubic yards of hydrocarbon impacted soils were transported offsite for disposal at Lacy Ace Landfarm, LLC in Eunice, New Mexico with waste manifests available upon request.

7. NMOCD Variance and Deferral Request and Response

On September 30, 2020, Plains submitted an email to the NMOCD requesting a variance and deferral for the remaining hydrocarbons in the soils at the Plains NRM2015326612 Mewbourne Toro 36 B3B0 State Com #1H. In an email dated February 10, 2021, the NMOCD responded that the variance and deferral are denied since groundwater data found for the site was over a half mile (i.e. one mile) from location and data was greater than 25 years old. The NMOCD requested that a soil boring be installed at the facility in order to determine depth to groundwater, if any. See Appendix E for a copy of the email and NMOCD request.

To verify depth to groundwater, if any, Plains was onsite April 20, 2021 to install one (1) temporary soil boring adjacent to the site to a depth of eighty (80) ft bgs. The soil boring was logged and samples were collected at five (5) ft. intervals. The lithology of the boring consisted of a buff sandy limestone to ten (10) ft bgs, with fine grain well sorted sand intermixed with limestone to twenty (20) ft bgs. From twenty (20) ft bgs to the terminus of the boring at eighty (80) ft bgs the soils consisted of a dry, tan to red fine grain well sorted sand. See Appendix B for soil boring log.

On April 21, 2021, after leaving the boring open for 24-hours, the temporary boring was gauged with a water level indicator to determine depth to groundwater, if any. The boring was found to be dry at a depth of eighty (80) ft bgs and was subsequently grouted to the surface with bentonite chips and water.

8. Initial Variance and Closure Request With NMOCD Response

In the original report submitted to the NMOCD dated August 20, 2021, Plains requested a variance to the current rules to include a deferral of cleanup/remediation for impacted soils remaining from 1 ft to 7 ft in areas represented by soil sampling in AH-1 and beneath Mewbourne's tank battery represented by AH-1 SE, AH-1 NE, and NE Wall, until time of abandonment, due to limited accessibility to soils (i.e. electrical piping, LACT unit, metallic berm location and liner) limited

confinement of hydrocarbons to LACT unit and narrow area within tank battery (approximately two (2) ft.). With the depth of groundwater greater than eighty (80) ft bgs, Plains believes the remaining inaccessible hydrocarbon impacted soil is not likely to impact the underlying groundwater.

In an email dated September 23, 2021, the NMOCD responded to Plain's request for a deferral with a denial based on obsolete samples and AH-SE nothing being fully delineated. A follow up phone conversation was held with the NMOCD representative, where it was explained that the NMOCD deemed the samples obsolete due to them being a year old. See Appendix G for NMOCD email response to variance request that determined previous sampling was obsolete due to age of samples.

9. Additional Delineation Sampling as Requested by NMOCD

On October 12, 2021, Dean personnel were onsite to resample areas AH-1, AH-1 E, AH-1 SE, AH-1 NE, and AH-2 to verify previous remediation efforts. A hand auger was utilized to collect the soil samples at two (2) ft intervals and submitted for analysis of BTEX, TPH, and chlorides to the lab. Auger hole AH-1 (A) was sampled at 5, 7, 9, and 11 ft bgs with BTEX and chlorides concentrations below the NMOCD standards. The TPH results were less than original sampling from May 29, 2020, but still exceeded NMOCD TPH standards at 5 ft bgs (7,546 mg/Kg), 7 ft bgs (6,190 mg/Kg) and 9 ft bgs (6,189 mg/Kg) and were below NMOCD standards at 11 ft bgs with a concentration of 77.7 mg/Kg indicating the TPH has not migrated vertically in this area. Auger hole AH-1 E was sampled at 3 ft (207.6 mg/Kg TPH), while auger hole AH-1 SE (A) was sampled at 5 (321.6 mg/Kg TPH), 7 (171 mg/Kg TPH), and 9 (708.8 mg/Kg TPH) ft bgs. Full delineation was achieved reflecting concentrations of BTEX, TPH, and chlorides below NMOCD standards for all analytes. Auger hole AH-1 NE (A) was sampled at 5, 7, 9, and 11 ft bgs with chlorides below NMOCD standards for all samples. Total BTEX exceeded the NMOCD standard of 50 mg/Kg for soil sample AH-1 NE (A) 9' with a concentration of 98.24 mg/Kg with all other samples below

standards. Total TPH exceeded the NMOCD standard of 2,500 mg/Kg for all samples from 7 to 11 ft bgs ranging in concentrations from 3,133.5 mg/Kg for soil sample AH-1 NE (A) @ 7' to 14,226 mg/Kg for soil sample AH-1 NE (A) @ 9'. Total TPH concentrations were not delineated in AH-1 NE (A) during initial sampling due to refusal at 11 ft bgs. Auger hole AH-2 (A) was sampled at 7 (<28.1 mg/Kg TPH) and 9 (<28.4 mg/Kg TPH) ft bgs with concentrations for all analytes below NMOCD standards indicating this area was remediated. Due to auger refusal further samples were not able to be collected in this vicinity.

On December 3, 2021, Dean Services was onsite to complete delineation of hydrocarbon impacts at auger hole AH-1 NE and to install a second auger hole AH-2 (B) near AH-2 to verify previous sampling have migrated vertically. Auger hole AH-1 NE was installed to a depth of 11.5 ft bgs and a sample collected and submitted for analysis of TPH. The total TPH analytical concentrations for the sample was <27.8 mg/Kg, indicating the hydrocarbons have not migrated vertically. Auger hole AH-2 (B) was installed north of AH-2 and AH-2 (A) and samples collected at depths of 7 (<28.4 mg/Kg TPH), 9 (<27.8 mg/Kg TPH), and 11 (<28.1 mg/Kg TPH) ft bgs for analysis. The analytical results for the benzene, total BTEX, chloride and TPH concentrations for these samples were below the NMOCD standards. See Table 1 for analytical results and Appendix D for laboratory reports.

10. Variance and Closure Request

With completion of the vertical delineation, remediation of accessible soils, backfilling of the excavation with locally sourced non-impacted soils, and resampling of previous remediated and hydrocarbon impacted areas showing no vertical migration, Plains believes the site has been remediated to the extent currently practical and requests that the NMOCD consider the site for deferral, further remediation at this time is not feasible due to structural integrity of onsite equipment being compromised if attempted. Plains requests a variance to the current rules to include deferral of remediation in areas represented by soil sampling in AH-1, AH-1 SE, and AH-

1 NE until time of abandonment or upgrade to LACT/tank battery. A C-141 closure is attached to the front of this report.

If you have any questions, or if additional information is required, please feel free to contact Amber Groves (email: ALGroves@paalp.com, cell: 575.200.7717) of Plains or Steve Casanova (email: stevecasanova@deandigs.com, cell: 432.557.1968) or Jeff Kindley (email: jeffreykindley@deandigs.com cell: 432.230.0920) of Dean.

Sincerely,

Steve Casanova

Project Manager

Jeffrey Kindley, FG.

Professional Geologist

TABLES



Chemistry Table 1

Delineation - Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil

Plains Pipeline, L.P.

Mewbourne Toro Release

Lea County, New Mexico

SRS #2020-050

	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)
NAGO	20.00		Adlantant		10				50	20.000	Ī	ı	4 000		2.500
	CD Recommended R			Cail		26.1	22.7	101	178.61	20,000	- 0.000	15 000	1,000	2 400	,
AH-1 @1'	05/29/20	1 ft 3 ft	Grab	Soil Soil	8.81 20.1	36.1 37.2	32.7 26.2	101 87.8	178.61	19.0	8,660	15,800	24,460	2,490	26,900
AH-1 @3'	05/29/20 05/29/20	5 ft	Grab		22.7	40.8		91.8	186.7	-	8,630 9,860	14,000 13,000	22,630 22,860	2,220	24,800
AH-1 @5'	10/12/21	5 ft	Grab	Soil Soil	0.199	7.8	31.4 4.33	35.3	47.629	38.6	1,810	4,870	6,680	2,040 866	24,900 7.546
AH-1 (A) @5' AH-1 @7'	06/23/20	7 ft	Grab Grab	Soil	10.1	24.4	20.8	58.6	113.9	70.6	3.470	4,870	8,030	530	8,560
AH-1 (A) @7'	10/12/21	7 ft	Grab	Soil	10.1	24.4	20.6	56.0	113.9	38.3	1,730	3,860	5,590	600	6,190
AH-1 (A) (B)	06/23/20	9 ft	Grab	Soil	0.94	6.72	7.67	30.41	45.74	67.3	2,520	6.690	9.210	520	9730
AH-1 (A) @9'	10/12/21	9 ft	Grab	Soil	0.54	0.72	7.07	30.41	-	-	2,030	3,560	5,590	599	6,189
AH-1 @11'	06/25/20	11 ft	Grab	Soil	0.101	0.657	1.51	6.15	8.418	61.7	707	2,510	3,217	228	3.445
AH-1 (A) @11'	10/12/21	11 ft	Grab	Soil	-	-	-	-	-	-	<27.8	77.7	77.7	<27.8	77.7
AH-1 @ 13'	07/13/20	13 ft	Grab	Soil	_	_	_	_	_	-	<26.3	226	226	40.3	266.3
AH-1 E @3'	06/30/20	3 ft	Grab	Soil	1.94	10.6	14.2	51.9	78.64	12.2	1,700	6,190	7.890	648	8,538
AH-1 E (A) @3'	10/12/21	3 ft	Grab	Soil	<0.00108	0.00167	<0.00108	0.00728	0.00895	19.9	<26.9	180	180	27.6	207.6
AH-1 E @5'	06/30/20	5 ft	Grab	Soil	<0.0230	0.0382	0.0308	0.1984	0.23302	11.2	<28.7	198	198	<28.7	198
AH-1 E @7'	06/30/20	7 ft	Grab	Soil	<0.0220	<0.0220	<0.0220	0.08290	0.08290	11.1	<27.5	261	261	28.3	289.3
AH-1 SE @3'	06/30/20	3 ft	Grab	Soil	<0.00104	0.00614	0.00539	0.03670	0.04823	24.0	35.1	786	821.1	87.6	908.7
AH-1 SE (A) @3'	10/12/21	3 ft	Grab	Soil	0.00337	0.00932	0.026	0.00750	0.04619	11.0	72.7	1,930	2,003	352	2,355
AH-1 SE @5'	06/30/20	5 ft	Grab	Soil	0.01040	0.06920	0.08860	0.43100	0.59920	27.8	329	2,950	3,279	300	3,579
AH-1 SE (A) @5'	10/12/21	5 ft	Grab	Soil	-	-	-	-	-	-	<29.1	266	266	55.6	321.6
AH-1 SE @7'	06/30/20	7 ft	Grab	Soil	0.00255	0.02780	0.03730	0.21010	0.27775	29.2	265	2,800	3,065	283	3,348
AH-1 SE (A) @ 7'	10/12/21	7 ft	Grab	Soil	-	-	-		-	-	<27.8	171	171	<27.8	171
AH-1 SE @8'	09/03/20	8ft	Grab	Soil	-	-	-	-	-	-	806	9,420	10,226	2,950	13,176
AH-1 SE @9'	09/03/20	9ft	Grab	Soil	-	-	-	-	-	-	299	4,820	5,119	1,180	6,299
AH-1 SE (A) @ 9'	10/12/21	9 ft	Grab	Soil	-	-	-	-	-	-	41.8	562	603.8	105	708.8
AH-1 NE @3'	06/30/20	3 ft	Grab	Soil	2.11	8.2	3.06	34.63	48	93.6	2,330	8,430	10,760	856	11,616
AH-1 NE @5'	06/30/20	5 ft	Grab	Soil	4.21	14.6	12.9	47.3	79.01	30.9	2,070	5,980	8,050	626	8,676
AH-1 NE (A) @5'	10/12/21	5 ft	Grab	Soil	<0.00114	<0.00114	<0.00114	<0.00114	<0.00227	64.8	<28.4	<28.4	<28.4	<28.4	<28.4



Chemistry Table 1

Delineation - Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil

Plains Pipeline, L.P.

Mewbourne Toro Release

Lea County, New Mexico

SRS #2020-050

	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)
					10			ı	l -a l						2.502
NMOC	CD Recommended Re		Action Level	1	10	-	-	-	50	20,000	•	-	1,000	-	2,500
AH-1 NE @7'	06/30/20	7 ft	Grab	Soil	2.79	14.3	14.7	49.2	80.99	14.4	4,220	10,600	14,820	1,090	15,910
AH-1 NE (A) @ 7'	10/12/21	7 ft	Grab	Soil	0.183	9.56	6.56	31.2	47.503	-	36.5	2,460	2,496.5	637	3,133.5
AH-1 NE @ 9'	06/30/20	9 ft	Grab	Soil	0.452	5.45	7.2	23.94	37.042	-	1,930	6,380	8,310	508	8,818
AH-1 NE (A) @ 9'	10/12/21	9 ft	Grab	Soil	1.54	38.1	16.0	42.6	98.24	-	336	11,300	11,636	2,590	14,226
AH-1 NE @11'	06/30/20	11 ft	Grab	Soil	-	-	-	-	-	-	30.2	402	432.2	42.6	474.8
AH-1 NE (A) @ 11'	10/12/21	11 ft	Grab	Soil	<0.00111	0.00577	0.00142	0.00754	0.01473	-	101	2,780	2,881	719	3,600
AH-1 NE (B) 11.5'	12/03/21	11.5'	Grab	Soil	-	-	-	-	-	-	<27.8	<27.8	<27.8	<27.8	<27.8
AH-2 @1'	05/29/20	1'	Grab	Soil	11.3	43.9	36.8	106.2	198.2	13.8	10,000	15,200	25,200	2,400	27,600
AH-2 @3"	05/29/20	3'	Grab	Soil	20.0	42.5	37.0	106.8	206.3	-	11,800	17,900	29,700	2,790	32,490
AH-2 @5'	05/29/20	5'	Grab	Soil	2.6	14.7	11.7	38.8	67.8	-	1,340	2,800	4,140	423	4,560
AH-2 @7'	06/23/20	7'	Grab	Soil	7.77	27.1	21.4	70.9	127.17	71.9	5,610	8,770	14,380	694	15,074
AH-2 (A) @7'	10/12/21	7'	Grab	Soil	<0.00112	<0.00112	<0.00112	<0.00112	<0.00225	56.9	<28.1	<28.1	<28.1	<28.1	<28.1
AH-2 (B) @ 7'	12/03/21	7'	Grab	Soil	<0.00114	<0.00114	<0.00114	<0.00227	<0.00114	59.0	<28.4	<28.4	<28.4	<28.4	<28.4
AH-2 @9'	06/23/20	9'	Grab	Soil	0.0163	0.0665	0.0746	0.3629	0.5203	53.8	175	796	971	63.1	1034.1
AH-2 (A) @9'	10/12/21	9'	Grab	Soil	<0.00114	<0.00114	<0.00114	<0.00114	<0.00227	67.2	<28.4	<28.4	<28.4	<28.4	<28.4
AH-2 (B) @ 9'	12/03/21	9'	Grab	Soil	-	-	-	-	-	-	<27.8	<27.8	<27.8	<27.8	<27.8
AH-2 @11'	06/25/20	11'	Grab	Soil	0.029	0.151	0.278	1.949	2.407	81.8	166	1,020	1,186	97.5	1283.5
AH-2 (B) @ 11'	12/03/21	11'	Grab	Soil	-	-	-	-	-	-	<28.1	<28.1	<28.1	<28.1	<28.1
AH-2 @ 13'	07/13/20	13'	Grab	Soil	-	-	-	-	-	-	237	4,680	4,917	1,210	6,127
AH-2 @ 14'	07/30/20	14'	Grab	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	68.5	<27.5	<27.5	<27.5	<27.5	<27.5
AH-2 @ 15'	07/30/20	15'	Grab	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	63.8	<27.2	<27.2	<27.2	<27.2	<27.2

Exceeds NMOCD Level



Chemistry Table 2

Confirmation - Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil

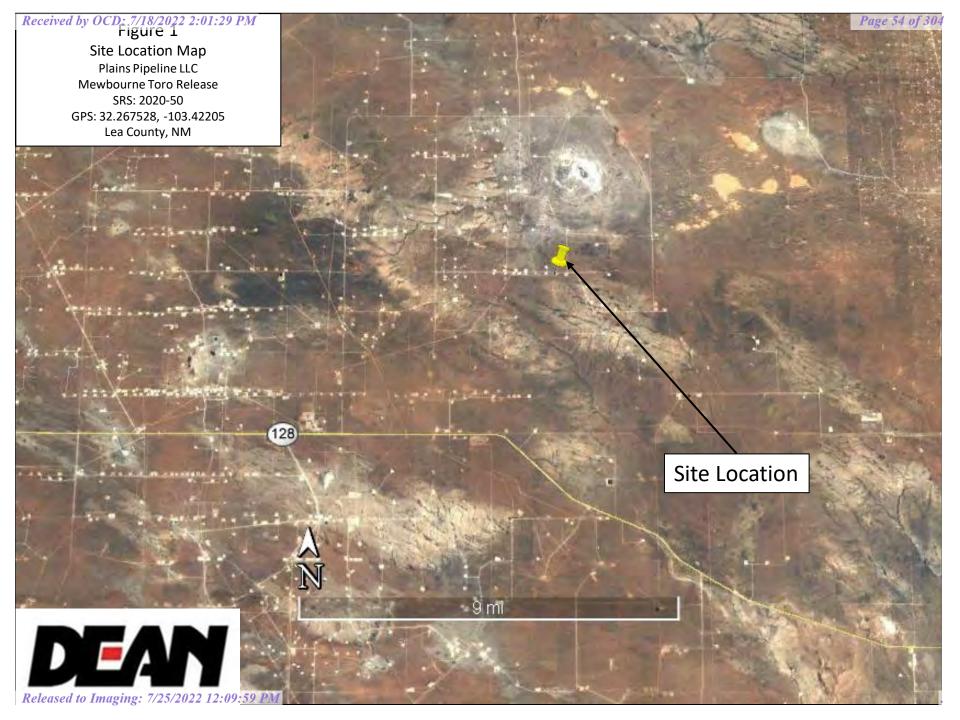
Plains Pipeline, L.P.

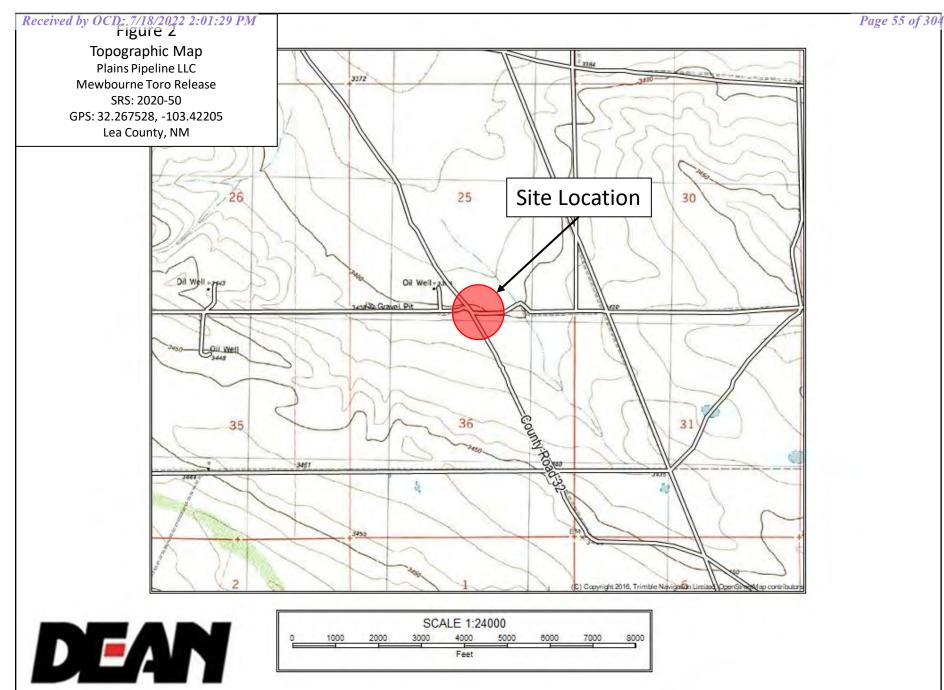
Mewbourne Toro Release Lea County, New Mexico SRS #2020-050

	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)
NMO	CD Recommended Re	emediation	Action Level		10	-	-	-	50	20,000	-	-	1,000	-	2,500
BH-1 @ 4'	07/31/20	4'	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	86.1	<26.3	103	103	<26.3	103
BH-1 NSW @ 2'	07/31/20	2'	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	145	<25.5	<25.5	<25.5	<25.5	<25.5
BH-1 ESW @ 2'	07/31/20	2'	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	120	<25.8	<25.8	<25.8	<25.8	<25.8
BH-1 WSW @ 2'	07/31/20	2'	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	76.0	<26.0	<26.0	<26.0	<26.0	<26.0
BH-1 SSW @ 3'	07/31/20	3'	Composite	Soil	3.34	20.3	14.3	57	94.94	60.4	2530	7640	10,170	924	11,094
BH-1 SSW @ 3'	09/03/20	3'	Composite	Soil	0.0176	0.0218	0.00419	0.00962	0.05321	-	<25.3	2100	2,100	330	2,430
BH-1 SSW @ 4'	09/16/20	4'	Composite	Soil	-	-	-	-	-	-	<26.6	<26.6	<26.6	<26.6	<26.6
SSW @ 2'	07/31/20	2'	Composite	Soil	<0.00100	0.00183	0.00138	0.00898	0.01219	64.8	<25.5	41.6	41.6	<25.5	41.6
SSW @ 8'	07/31/20	8'	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	61.5	<26.9	<26.9	<26.9	<26.9	<26.9
WSW @ 2'	07/31/20	2'	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	84.7	<26.6	<26.6	<26.6	<26.6	<26.6
NE Wall @1'	06/25/20	1 ft	Grab	Soil	3.12	7.52	7.85	22.45	40.94	52.1	3430	7560	10,990	786	11,776
NE Wall @3'	06/25/20	3 ft	Grab	Soil	-	-	-	-	-	ı	3660	7370	11,030	708	11,738
NE Wall (A) @3'	06/26/20	3 ft	Grab	Soil	0.0588	0.173	0.0801	0.3052	0.6171	9.60	107	2,350	2,457	492	2,949
NE Wall @ 5'	07/13/20	5 ft	Grab	Soil	-	-	-	-	-	i	260	1390	1,650	213	1863
NE Wall (A) @ 5'	07/14/20	5 ft	Grab	Soil	-	-	-	-	-	i	<27.8	304	304	47.6	351.6
NE Wall @ 7'	07/13/20	7 ft	Grab	Soil	-	-	-	-	-	-	<29.1	144	144	34.8	178.8
SE Wall @1'	06/25/20	1 ft	Grab	Soil	<0.00108	<0.00108	0.0053	0.01635	0.02165	171	37	761	798	73.7	871.7

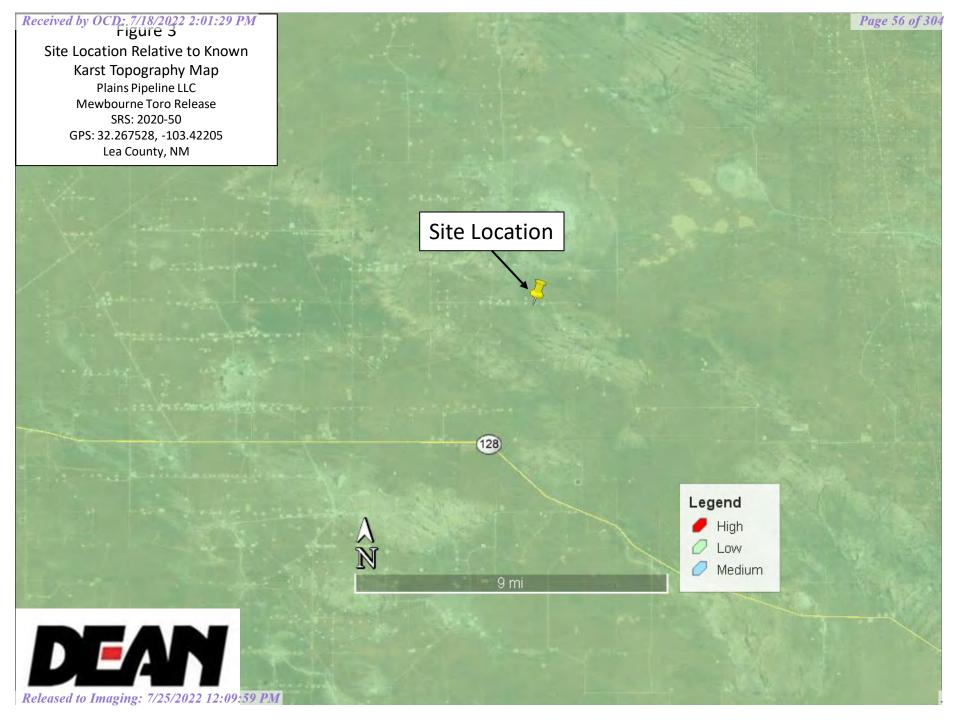
Exceeds NMOCD Level

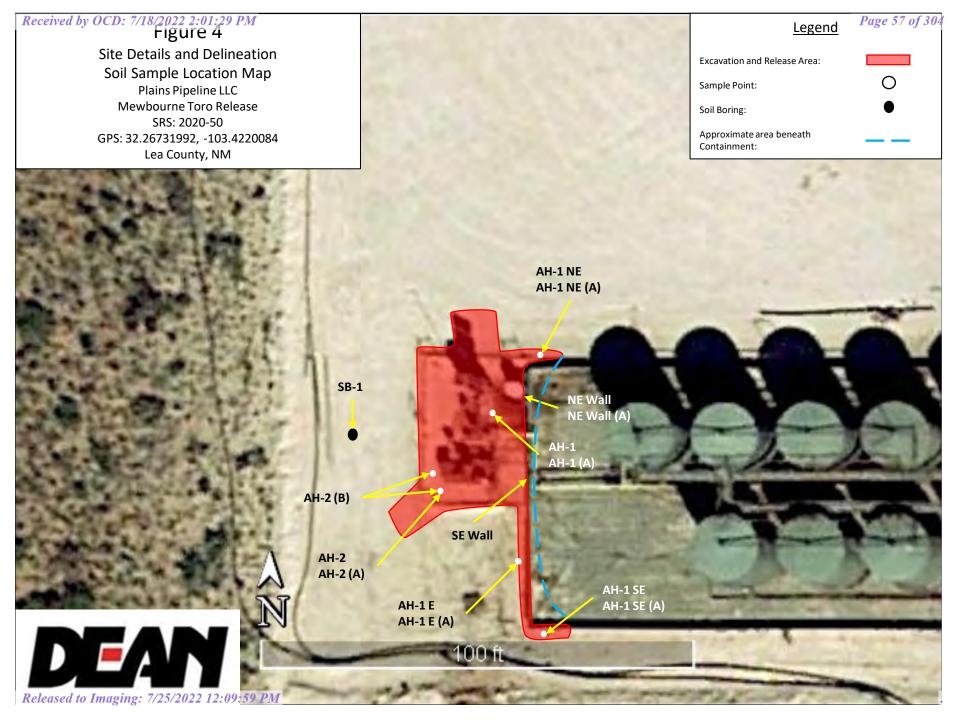
FIGURES

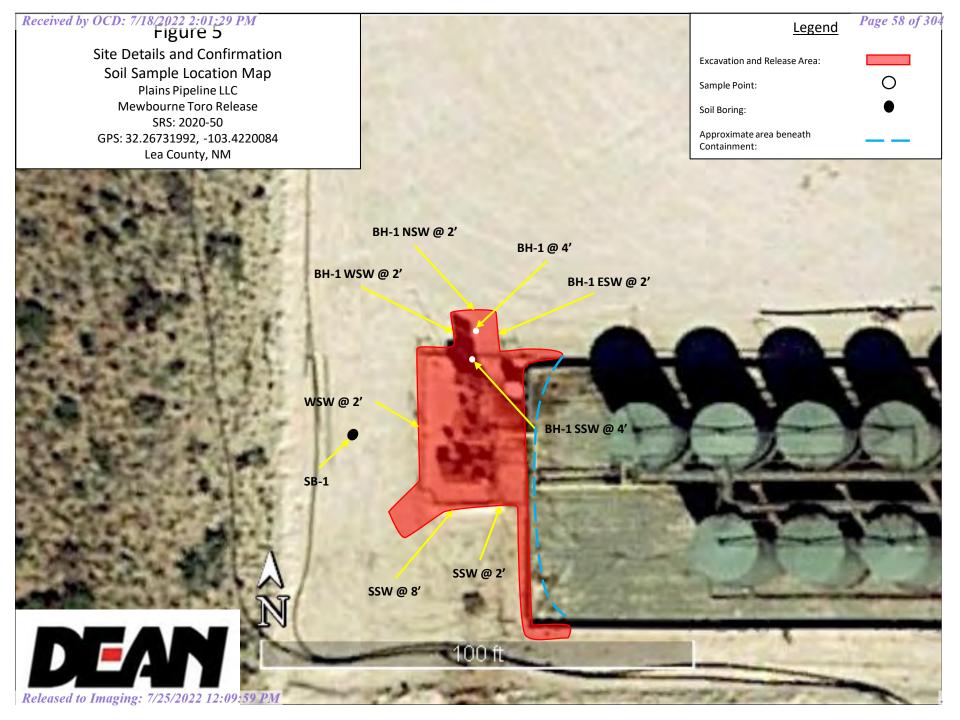




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APPENDIX A INITIAL C-141 FORM

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NRM2015326612
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

ins Pipeline, L.P.		OGRID 7	OGRID 713291					
Groves		Contact Te	Contact Telephone 575-200-5517					
s@paalp.com		Incident #	Incident # (assigned by OCD)					
s 577 US HWY 38.	5 N Seminole, TX	,						
	Location o	of Release So	ource					
	(NAD 83 in decin		gitude -103.4220084 mal places)					
bourne Toro 36 B3F	BO State Com #1H	Site Type	LACT Unit					
d 5/23/2020 @ 8:00	O AM	API# (if app	plicable)					
Township	Range	Cour	nty					
23S	34E	Lea						
rial(s) Released (Select al	Nature and	Volume of 1	Release					
	. ,		Volume Recovered (bbls)					
Is the concentrate	ion of dissolved chl	loride in the	☐ Yes ☐ No					
Volume Release	d (bbls)		Volume Recovered (bbls)					
Volume Release	d (Mcf)		Volume Recovered (Mcf)					
Volume/Weight	Released (provide u	units)	Volume/Weight Recovered (provide units)					
	zimata ralagga of 10	bbls of crude oil.	1					
	bourne Toro 36 B3E d 5/23/2020 @ 8:00 Township 23S e Federal Tr rial(s) Released (Select al Volume Release Volume Release Is the concentrat produced water and Volume Release Volume Release Volume Release Volume Release	Groves s@paalp.com s 577 US HWY 385 N Seminole, TX Location (NAD 83 in decir bourne Toro 36 B3BO State Com #1H d 5/23/2020 @ 8:00 AM Township Range 23S 34E Federal Tribal Private (Na Nature and volume Released (bls) 10.4 bbls Volume Released (bbls) Is the concentration of dissolved chl produced water >10,000 mg/l? Volume Released (bbls) Volume Released (bbls) Volume Released (bbls) Volume Released (bbls) Volume Released (bbls) Volume Released (bbls)	Groves Groves Groves Groves Groves Groves Groves Groves Groves Groves Groves Groves Groves Groves Groves Groves Groves Groves Groves Incident # Long (NAD 83 in decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees to 5 decimal degrees t					

Received by OCD: 7/18/2022 2:01:29 PM State of New Mexico Page 2 Oil Conservation Division

Dann	doct an	+ 2111
Page	W1 (1)	101/4
		, -,

Incident ID	NRM2015326612
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the response	onsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
☐ Yes ⊠ No		
If YES, was immediate no	otice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?
	Initial R	Response
The responsible p	party must undertake the following actions immediate	ely unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health and	If the environment.
		dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed as	
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach	a narrative of actions to date. If remedial	remediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
regulations all operators are public health or the environmalied to adequately investigated	required to report and/or file certain release no ment. The acceptance of a C-141 report by the ate and remediate contamination that pose a thi	be best of my knowledge and understand that pursuant to OCD rules and diffications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have the action of groundwater, surface water, human health or the environment. In the fresponsibility for compliance with any other federal, state, or local laws
Printed Name: Amber	Groves	Title:Remediation Coordinator
Signature:		Date:
email: <u>algroves@paalp</u>	.com_	Telephone:(575)200-5517
OCD Only		
Received by:Ramo	na Marcus	Date: 6/1/2020

NRM2015326612

Amber L Groves

From: Tommy J Bacon

Sent: Thursday, May 28, 2020 12:34 PM

To: Amber L Groves

Subject: Spill Calculations for Toro 36

20' X 40' x .85 x 0.0154 = 10.4bbls

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

Incident ID	NRM2015326612
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.							
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 							
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.							
☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.							
Extents of contamination must be fully delineated.							
☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name: Amber Groves Title: Remediation Specialist							
Signature: Date: <u>8/24/2021</u>							
email:algroves@paalp.com							
OCD Only							
Received by: Date:							
Approved							
Signature: Date:							

APPENDIX B NMOSE WATER WELL





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

O64 O16 O4 Sec Tws Rng 32 23S 34E 3

 \mathbf{X}

Driller License:

C 03620 POD1

641790

3569941

1682

Driller Company:

HUNGRY HORSE, LLC.

Driller Name:

NORRIS, JOHN D. (LD)

Drill Finish Date:

14

362

04/29/2013

Plug Date:

Drill Start Date: Log File Date:

04/10/2013 06/18/2013

PCW Rcv Date:

Depth Well:

Source:

Shallow

Pump Type: Casing Size:

Pipe Discharge Size:

480 feet

Estimated Yield: Depth Water:

130 feet

Water Bearing Stratifications:

8.00

Bottom Description Top

Sandstone/Gravel/Conglomerate

Shale/Mudstone/Siltstone 41 203 Sandstone/Gravel/Conglomerate

Sandstone/Gravel/Conglomerate 249 Sandstone/Gravel/Conglomerate

Casing Perforations:

Bottom Top

> 0 480

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.

9/29/20 8:18 AM

POINT OF DIVERSION SUMMARY

APPENDIX C SOIL BORING LOG



Boring/Well: SB-1 Project Number: PP-2061

Client: Plains Pipeline, L.P.
SRS Number: Mewbourne Toro Release
Location: Lea County, New Mexico
GPS Coordinates: 32.267528 -103.42205

Total Depth 80 feet bgs
Date Drilled: 04/20/21
Date Completed: 04/21/21
Logged by: JWK

DEPTH (Ft)*	PID Readings	SAMPLE DESCRIPTION
10	-	Buff sandy limestone (No odor or staining)
20	-	Fine grain tan sand well sorted with limestone intermixed (No odor or staining)
30	-	Tan to red fine grain well sorted sand (No odor or staining)
40	-	Tan to red fine grain well sorted sand (No odor or staining)
50	-	Tan to red fine grain well sorted sand (No odor or staining)
60	-	Tan to red fine grain well sorted sand (No odor or staining)
70	-	Tan to red fine grain well sorted sand (No odor or staining)
75	-	Tan to red fine grain well sorted sand (No odor or staining) dry

Site was gauged on April 21, 2021 and was dry then backfilled with betonite chips

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: Mewborne Toro Project Number: PP-2061/SRS#2020-050

Location: Jal, NM

Lab Order Number: 0F01004



NELAP/TCEQ # T104704516-17-8

Report Date: 06/11/20

Dean Project: Plains: Mewborne Toro Fax:

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 @ 1'	0F01004-01	Soil	05/29/20 08:53	06-01-2020 13:39
AH-1 @ 3'	0F01004-02	Soil	05/29/20 08:50	06-01-2020 13:39
AH-1 @ 5'	0F01004-03	Soil	05/29/20 09:09	06-01-2020 13:39
AH-2 @ 1'	0F01004-04	Soil	05/29/20 09:36	06-01-2020 13:39
AH-2 @ 3'	0F01004-05	Soil	05/29/20 09:50	06-01-2020 13:39
AH-2 @ 5'	0F01004-06	Soil	05/29/20 10:00	06-01-2020 13:39

Dean Project: Plains: Mewborne Toro Fax:

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

AH-1 @ 1' 0F01004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
•	Perm	ian Basin F	Environme	ntal Lab, l	L. P.	-	-		
BTEX by 8021B				,					
Benzene	8.81	0.108	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Toluene	36.1	0.538	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Ethylbenzene	32.7	0.538	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Xylene (p/m)	66.4	0.538	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Xylene (o)	34.6	0.108	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		61.7 %	75-125		P0F0308	06/03/20	06/04/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		94.0 %	75-125		P0F0308	06/03/20	06/04/20	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	s							
Chloride	19.0	1.08	mg/kg dry	1	P0F0601	06/06/20	06/09/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0F0301	06/03/20	06/03/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	8660	269	mg/kg dry	10	P0F0208	06/02/20	06/05/20	TPH 8015M	
>C12-C28	15800	269	mg/kg dry	10	P0F0208	06/02/20	06/05/20	TPH 8015M	
>C28-C35	2490	269	mg/kg dry	10	P0F0208	06/02/20	06/05/20	TPH 8015M	
Surrogate: 1-Chlorooctane		78.5 %	70-130		P0F0208	06/02/20	06/05/20	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P0F0208	06/02/20	06/05/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	26900	269	mg/kg dry	10	[CALC]	06/02/20	06/05/20	calc	

Dean Project: Plains: Mewborne Toro Fax:

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

AH-1 @ 3' 0F01004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Darr	nian Basin H	'nvironmer	ıtal I ah l	D				
DTEV L 9021D	Ten	man Dasin I	an vii oniniei	itai Lab, i	L.1.				
BTEX by 8021B Benzene	20.1	0.110	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
				100	P0F0308			EPA 8021B	
Toluene	37.2	0.549	mg/kg dry			06/03/20	06/04/20		
Ethylbenzene	26.2	0.549	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Kylene (p/m)	57.2	0.549	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Kylene (o)	30.6	0.110	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.3 %	75-125		P0F0308	06/03/20	06/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		55.1 %	75-125		P0F0308	06/03/20	06/04/20	EPA 8021B	S-GO
General Chemistry Parameters by EP	A / Standard Method	ls							
% Moisture	9.0	0.1	%	1	P0F0301	06/03/20	06/03/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	8630	275	mg/kg dry	10	P0F0208	06/02/20	06/05/20	TPH 8015M	
C12-C28	14000	275	mg/kg dry	10	P0F0208	06/02/20	06/05/20	TPH 8015M	
>C28-C35	2220	275	mg/kg dry	10	P0F0208	06/02/20	06/05/20	TPH 8015M	
Surrogate: 1-Chlorooctane		72.0 %	70-130		P0F0208	06/02/20	06/05/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P0F0208	06/02/20	06/05/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	24800	275	mg/kg dry	10	[CALC]	06/02/20	06/05/20	calc	

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

AH-1 @ 5' 0F01004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	22.7	0.112	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Toluene	40.8	0.562	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Ethylbenzene	31.4	0.562	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Xylene (p/m)	60.2	0.562	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Xylene (o)	31.6	0.112	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		81.0 %	75-1	25	P0F0308	06/03/20	06/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		48.5 %	75-1	25	P0F0308	06/03/20	06/04/20	EPA 8021B	S-GC
General Chemistry Parameters by EP.	A / Standard Method	ls							
% Moisture	11.0	0.1	%	1	P0F0301	06/03/20	06/03/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	9860	281	mg/kg dry	10	P0F0208	06/02/20	06/05/20	TPH 8015M	
>C12-C28	13000	281	mg/kg dry	10	P0F0208	06/02/20	06/05/20	TPH 8015M	
>C28-C35	2040	281	mg/kg dry	10	P0F0208	06/02/20	06/05/20	TPH 8015M	
Surrogate: 1-Chlorooctane		73.2 %	70-1	30	P0F0208	06/02/20	06/05/20	TPH 8015M	
Surrogate: o-Terphenyl		98.4 %	70-1	30	P0F0208	06/02/20	06/05/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	24900	281	mg/kg dry	10	[CALC]	06/02/20	06/05/20	calc	

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

AH-2 @ 1' 0F01004-04 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmer	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	11.3	0.111	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Toluene	43.9	0.556	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Ethylbenzene	36.8	0.556	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Xylene (p/m)	69.2	0.556	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Xylene (o)	37.0	0.111	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		56.3 %	75-1	25	P0F0308	06/03/20	06/04/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		89.7 %	75-1	25	P0F0308	06/03/20	06/04/20	EPA 8021B	
General Chemistry Parameters by EI	PA / Standard Method	s							
Chloride	13.8	1.11	mg/kg dry	1	P0F0601	06/06/20	06/09/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0F0301	06/03/20	06/03/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	10000	278	mg/kg dry	10	P0F0208	06/02/20	06/05/20	TPH 8015M	
>C12-C28	15200	278	mg/kg dry	10	P0F0208	06/02/20	06/05/20	TPH 8015M	
>C28-C35	2400	278	mg/kg dry	10	P0F0208	06/02/20	06/05/20	TPH 8015M	
Surrogate: 1-Chlorooctane		75.9 %	70-1	30	P0F0208	06/02/20	06/05/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-1	30	P0F0208	06/02/20	06/05/20	TPH 8015M	
Total Petroleum Hydrocarbon	27600	278	mg/kg dry	10	[CALC]	06/02/20	06/05/20	calc	
C6-C35									

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

AH-2 @ 3' 0F01004-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmer	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	20.0	0.109	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Toluene	42.5	0.543	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Ethylbenzene	37.0	0.543	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Xylene (p/m)	70.3	0.543	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Xylene (o)	36.5	0.109	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		53.4 %	75-1	25	P0F0308	06/03/20	06/04/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		82.2 %	75-1	25	P0F0308	06/03/20	06/04/20	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Method	ls							
% Moisture	8.0	0.1	%	1	P0F0301	06/03/20	06/03/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	11800	272	mg/kg dry	10	P0F0208	06/02/20	06/05/20	TPH 8015M	
>C12-C28	17900	272	mg/kg dry	10	P0F0208	06/02/20	06/05/20	TPH 8015M	
>C28-C35	2790	272	mg/kg dry	10	P0F0208	06/02/20	06/05/20	TPH 8015M	
Surrogate: 1-Chlorooctane		80.8 %	70-1	30	P0F0208	06/02/20	06/05/20	TPH 8015M	
Surrogate: o-Terphenyl		143 %	70-1	30	P0F0208	06/02/20	06/05/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	32500	272	mg/kg dry	10	[CALC]	06/02/20	06/05/20	calc	

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

AH-2 @ 5' 0F01004-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin H	Invironmer	ntal Lah l	. P				
BTEX by 8021B	1011	man Basin I	an vii oninici	itai Lab, i	L.I.				
Benzene	2.60	0.112	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Toluene	14.7	0.562	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Ethylbenzene	11.7	0.562	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Xylene (p/m)	28.8	0.562	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Xylene (o)	10.0	0.112	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		81.9 %	75-1	25	P0F0308	06/03/20	06/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.9 %	75-1	25	P0F0308	06/03/20	06/04/20	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Mathod	le							
% Moisture	11.0	0.1	%	1	P0F0301	06/03/20	06/03/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	1340	28.1	mg/kg dry	1	P0F0208	06/02/20	06/05/20	TPH 8015M	
>C12-C28	2800	28.1	mg/kg dry	1	P0F0208	06/02/20	06/05/20	TPH 8015M	
>C28-C35	423	28.1	mg/kg dry	1	P0F0208	06/02/20	06/05/20	TPH 8015M	
Surrogate: 1-Chlorooctane		61.5 %	70-1	30	P0F0208	06/02/20	06/05/20	TPH 8015M	S-GC1
Surrogate: o-Terphenyl		64.8 %	70-1	30	P0F0208	06/02/20	06/05/20	TPH 8015M	S-GCI
Total Petroleum Hydrocarbon C6-C35	4560	28.1	mg/kg dry	1	[CALC]	06/02/20	06/05/20	calc	

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

	D. Iv	Reporting	TT '4	Spike	Source	0/DEC	%REC	DDD	RPD	N I 4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F0308 - General Preparation (GC)										
Blank (P0F0308-BLK1)				Prepared &	Analyzed:	06/03/20				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.00500	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			
LCS (P0F0308-BS1)				Prepared &	Analyzed:	06/03/20				
Benzene	0.0934	0.00100	mg/kg wet	0.100	-	93.4	70-130			
Toluene	0.0920	0.00500	"	0.100		92.0	70-130			
Ethylbenzene	0.104	0.00500	"	0.100		104	70-130			
Xylene (p/m)	0.202	0.00500	"	0.200		101	70-130			
Xylene (o)	0.103	0.00100	"	0.100		103	70-130			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.6	75-125			
LCS Dup (P0F0308-BSD1)				Prepared &	Analyzed:	06/03/20				
Benzene	0.0972	0.00100	mg/kg wet	0.100		97.2	70-130	3.93	20	
Toluene	0.0971	0.00500	"	0.100		97.1	70-130	5.39	20	
Ethylbenzene	0.104	0.00500	"	0.100		104	70-130	0.355	20	
Xylene (p/m)	0.208	0.00500	"	0.200		104	70-130	3.27	20	
Xylene (o)	0.106	0.00100	"	0.100		106	70-130	3.63	20	
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		97.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			
Calibration Blank (P0F0308-CCB1)				Prepared &	Analyzed:	06/03/20				
Benzene	0.00		mg/kg wet							
Toluene	0.720		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.370		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	75-125			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F0308 - General Preparation (G	GC)									
Calibration Blank (P0F0308-CCB2)				Prepared &	: Analyzed:	06/03/20				
Benzene	0.00		mg/kg wet							
Toluene	0.500		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.540		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.7	75-125			
Calibration Blank (P0F0308-CCB3)				Prepared: (06/03/20 At	nalyzed: 06	/04/20			
Benzene	0.420		mg/kg wet							
Toluene	4.92		"							
Ethylbenzene	1.36		"							
Xylene (p/m)	3.58		"							
Xylene (o)	0.920		"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	75-125			
Calibration Check (P0F0308-CCV1)				Prepared &	: Analyzed:	06/03/20				
Benzene	0.0958	0.00100	mg/kg wet	0.100		95.8	80-120			
Toluene	0.0935	0.00500	"	0.100		93.5	80-120			
Ethylbenzene	0.0972	0.00500	"	0.100		97.2	80-120			
Xylene (p/m)	0.199	0.00500	"	0.200		99.6	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102	75-125			
Calibration Check (P0F0308-CCV2)				Prepared &	: Analyzed:	06/03/20				
Benzene	0.0994	0.00100	mg/kg wet	0.100		99.4	80-120			
Toluene	0.0918	0.00500	"	0.100		91.8	80-120			
Ethylbenzene	0.0937	0.00500	"	0.100		93.7	80-120			
Xylene (p/m)	0.191	0.00500	"	0.200		95.7	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.9	75-125			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F0308 - General Preparation (GC))									
Calibration Check (P0F0308-CCV3)				Prepared:	06/03/20 Ar	nalyzed: 06	5/04/20			
Benzene	0.0958	0.00100	mg/kg wet	0.100		95.8	80-120			
Toluene	0.0998	0.00500	"	0.100		99.8	80-120			
Ethylbenzene	0.0968	0.00500	"	0.100		96.8	80-120			
Xylene (p/m)	0.192	0.00500	"	0.200		96.0	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.2	75-125			
Matrix Spike (P0F0308-MS1)	Sou	rce: 0F01002	-18	Prepared:	06/03/20 Ar	nalyzed: 06	5/04/20			
Benzene	0.0736	0.00100	mg/kg dry	0.100	ND	73.6	80-120			QM-0
Toluene	0.0836	0.00500	"	0.100	0.000640	82.9	80-120			
Ethylbenzene	0.0847	0.00500	"	0.100	0.000910	83.8	80-120			
Xylene (p/m)	0.151	0.00500	"	0.200	0.00602	72.4	80-120			QM-0
Xylene (o)	0.0773	0.00100	"	0.100	0.00221	75.1	80-120			QM-0
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.4	75-125			
Matrix Spike Dup (P0F0308-MSD1)	Sou	rce: 0F01002	-18	Prepared:	06/03/20 Ar	nalyzed: 06	6/04/20			
Benzene	0.0782	0.00100	mg/kg dry	0.100	ND	78.2	80-120	6.02	20	QM-0
Toluene	0.0867	0.00500	"	0.100	0.000640	86.0	80-120	3.66	20	
Ethylbenzene	0.0918	0.00500	"	0.100	0.000910	90.9	80-120	8.17	20	
Xylene (p/m)	0.166	0.00500	"	0.200	0.00602	79.8	80-120	9.66	20	QM-0
Xylene (o)	0.0849	0.00100	"	0.100	0.00221	82.7	80-120	9.62	20	
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.4	75-125			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F0301 - *** DEFAULT PREP ***										
Blank (P0F0301-BLK1)				Prepared &	Analyzed:	: 06/03/20				
% Moisture	ND	0.1	%							
Duplicate (P0F0301-DUP1)	Sou	rce: 0F01006-	14	Prepared &	Analyzed:	06/03/20				
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P0F0301-DUP2)	Sou	rce: 0F02002-	13	Prepared &	Analyzed:	: 06/03/20				
% Moisture	8.0	0.1	%		9.0			11.8	20	
Duplicate (P0F0301-DUP3)	Sou	rce: 0F02002-	21	Prepared &	Analyzed:	06/03/20				
% Moisture	10.0	0.1	%		10.0			0.00	20	
Batch P0F0601 - *** DEFAULT PREP ***										
Blank (P0F0601-BLK1)				Prepared: (06/06/20 A	nalyzed: 06	5/09/20			
Chloride	ND	1.00	mg/kg wet							
LCS (P0F0601-BS1)				Prepared: (06/06/20 A	nalyzed: 06	5/09/20			
Chloride	431	1.00	mg/kg wet	400		108	80-120			
LCS Dup (P0F0601-BSD1)				Prepared: (06/06/20 A	nalyzed: 06	5/09/20			
Chloride	432	1.00	mg/kg wet	•		108	80-120	0.306	20	
Calibration Blank (P0F0601-CCB1)				Prepared: (06/06/20 A	nalyzed: 06	5/09/20			
Chloride	0.00		mg/kg wet			<u> </u>				
Calibration Blank (P0F0601-CCB2)				Prepared: (06/06/20 A	nalyzed: 06	5/09/20			
Chloride	0.00		mg/kg wet	*		<u> </u>				

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source	•	%REC	•	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F0601 - *** DEFAULT PREP ***										
Calibration Check (P0F0601-CCV1)				Prepared: (06/06/20 A	nalyzed: 06	5/08/20			
Chloride	21.4		mg/kg	20.0		107	0-200			
Calibration Check (P0F0601-CCV2)				Prepared: (06/06/20 A	nalyzed: 06	5/09/20			
Chloride	21.6		mg/kg	20.0		108	0-200			
Calibration Check (P0F0601-CCV3)				Prepared: (06/06/20 A	nalyzed: 06	5/09/20			
Chloride	22.0		mg/kg	20.0		110	0-200			
Matrix Spike (P0F0601-MS1)	Sour	ce: 0F01006	-01	Prepared: (06/06/20 A	nalyzed: 06	5/09/20			
Chloride	7340	27.2	mg/kg dry	2720	4320	111	80-120			
Matrix Spike (P0F0601-MS2)	Sour	ce: 0F01004	-04	Prepared: (06/06/20 A	nalyzed: 06	5/09/20			
Chloride	16900	55.6	mg/kg dry	5560	13.8	303	80-120			
Matrix Spike Dup (P0F0601-MSD1)	Sour	ce: 0F01006	-01	Prepared: (06/06/20 A	nalyzed: 06	5/09/20			
Chloride	7360	27.2	mg/kg dry	2720	4320	112	80-120	0.303	20	
Matrix Spike Dup (P0F0601-MSD2)	Sour	ce: 0F01004	-04	Prepared: (06/06/20 A	nalyzed: 06	5/09/20			
Chloride	16900	55.6	mg/kg dry	5560	13.8	304	80-120	0.414	20	

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F0208 - TX 1005										
Blank (P0F0208-BLK1)				Prepared: (06/02/20 Aı	nalyzed: 06	5/05/20			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	157		"	160		98.1	70-130			
Surrogate: o-Terphenyl	86.2		"	80.0		108	70-130			
LCS (P0F0208-BS1)				Prepared: (06/02/20 Aı	nalyzed: 06	5/05/20			
C6-C12	1830	25.0	mg/kg wet	1800		102	75-125			
>C12-C28	2140	25.0	"	1800		119	75-125			
Surrogate: 1-Chlorooctane	202		"	160		126	70-130			
Surrogate: o-Terphenyl	82.5		"	80.0		103	70-130			
LCS Dup (P0F0208-BSD1)		Prepared: 06/02/20 Analyzed: 06/05/20								
C6-C12	1810	25.0	mg/kg wet	1800		100	75-125	1.07	20	
>C12-C28	2130	25.0	"	1800		119	75-125	0.455	20	
Surrogate: 1-Chlorooctane	195		"	160		122	70-130			
Surrogate: o-Terphenyl	79.9		"	80.0		99.9	70-130			
Calibration Blank (P0F0208-CCB1)				Prepared: (06/02/20 Aı	nalyzed: 06	5/05/20			
C6-C12	19.1		mg/kg wet							
>C12-C28	10.6		"							
Surrogate: 1-Chlorooctane	153		"	160		95.6	70-130			
Surrogate: o-Terphenyl	84.2		"	80.0		105	70-130			
Calibration Blank (P0F0208-CCB2)				Prepared: (06/02/20 Aı	nalyzed: 06	5/05/20			
C6-C12	20.7		mg/kg wet							
>C12-C28	16.8		"							
Surrogate: 1-Chlorooctane	136		"	160		85.3	70-130			
Surrogate: o-Terphenyl	75.3		"	80.0		94.2	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F0208 - TX 1005										
Calibration Check (P0F0208-CCV1)				Prepared: (06/02/20 A	nalyzed: 06	/05/20			
C6-C12	861	25.0	mg/kg wet	800		108	85-115			
>C12-C28	918	25.0	"	800		115	85-115			
Surrogate: 1-Chlorooctane	165		"	160		103	70-130			
Surrogate: o-Terphenyl	79.0		"	80.0		98.7	70-130			
Calibration Check (P0F0208-CCV2)				Prepared: (06/02/20 A	nalyzed: 06	/05/20			
C6-C12	823	25.0	mg/kg wet	800		103	85-115			
>C12-C28	871	25.0	"	800		109	85-115			
Surrogate: 1-Chlorooctane	157		"	160		98.4	70-130			
Surrogate: o-Terphenyl	75.0		"	80.0		93.7	70-130			
Calibration Check (P0F0208-CCV3)				Prepared: (06/02/20 A	nalyzed: 06	/05/20			
C6-C12	541	25.0	mg/kg wet	500		108	85-115			
>C12-C28	561	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	130		"	160		81.5	70-130			
Surrogate: o-Terphenyl	70.8		"	80.0		88.5	70-130			
Duplicate (P0F0208-DUP1)	Sou	rce: 0F02001	-04	Prepared: (06/02/20 A	nalyzed: 06	/05/20			
C6-C12	14.0	25.5	mg/kg dry		14.2			1.45	20	
>C12-C28	12.5	25.5	"		11.8			5.69	20	
Surrogate: 1-Chlorooctane	148		"	163		90.8	70-130			
Surrogate: o-Terphenyl	84.8		"	81.6		104	70-130			

Dean	Project:	Plains: Mewborne Toro	Fax:
12600 W County Rd 91	Project Number:	PP-2061/SRS#2020-050	
Midland TX, 79707	Project Manager:	Sylwia Reynolds	

Notes and Definitions

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

	Dren	Darron		
Report Approved By:			Date:	6/11/2020
			_	

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

Duplicate

Dup

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

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Permian Basin Environmental Lab, L.P.

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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: Mewborne Toro
Project Number: PP-2061/SRS#2020-050

Location: Lea County, NM

Lab Order Number: 0F24012



NELAP/TCEQ # T104704516-17-8

Report Date: 07/05/20

Dean Project: Plains: Mewborne Toro Fax: 12600 W County Rd 91 Project Number: PP-2061/SRS#2020-050

Midland TX, 79707 Project Manager: Sylwia Reynolds

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 @ 7'	0F24012-01	Soil	06/23/20 11:05	06-24-2020 15:07
AH-1 @ 9'	0F24012-02	Soil	06/23/20 11:40	06-24-2020 15:07
AH-2 @ 7'	0F24012-03	Soil	06/23/20 09:00	06-24-2020 15:07
AH-2 @ 9'	0F24012-04	Soil	06/23/20 09:35	06-24-2020 15:07

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

AH-1 @ 7' 0F24012-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmer	ıtal Lab, l	L.P.		<u> </u>		
BTEX by 8021B									
Benzene	10.1	0.111	mg/kg dry	100	P0F2905	06/29/20	06/30/20	EPA 8021B	
Toluene	24.4	0.111	mg/kg dry	100	P0F2905	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	20.8	0.111	mg/kg dry	100	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	43.8	0.222	mg/kg dry	100	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	14.8	0.111	mg/kg dry	100	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		58.9 %	75-1	25	P0F2905	06/29/20	06/30/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		89.5 %	75-1	25	P0F2905	06/29/20	06/30/20	EPA 8021B	
General Chemistry Parameters by EI	PA / Standard Method	S							
Chloride	70.6	1.11	mg/kg dry	1	P0F2608	06/26/20	06/26/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0F2601	06/26/20	06/26/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	3470	139	mg/kg dry	5	P0F2502	06/25/20	06/25/20	TPH 8015M	
>C12-C28	4560	139	mg/kg dry	5	P0F2502	06/25/20	06/25/20	TPH 8015M	
>C28-C35	530	139	mg/kg dry	5	P0F2502	06/25/20	06/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-1	30	P0F2502	06/25/20	06/25/20	TPH 8015M	
Surrogate: o-Terphenyl		96.0 %	70-1	30	P0F2502	06/25/20	06/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	8570	139	mg/kg dry	5	[CALC]	06/25/20	06/25/20	calc	

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

AH-1 @ 9' 0F24012-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environme	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	0.940	0.109	mg/kg dry	100	P0F2905	06/29/20	06/30/20	EPA 8021B	
Toluene	6.72	0.109	mg/kg dry	100	P0F2905	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	7.67	0.109	mg/kg dry	100	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	22.9	0.217	mg/kg dry	100	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	7.51	0.109	mg/kg dry	100	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.7 %	75-1	25	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		61.5 %	75-1	25	P0F2905	06/29/20	06/30/20	EPA 8021B	S-GC
General Chemistry Parameters by EP	A / Standard Method	ls							
Chloride	67.3	1.09	mg/kg dry	1	P0F2608	06/26/20	06/26/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0F2601	06/26/20	06/26/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	2520	272	mg/kg dry	10	P0F2502	06/25/20	06/25/20	TPH 8015M	
>C12-C28	6690	272	mg/kg dry	10	P0F2502	06/25/20	06/25/20	TPH 8015M	
>C28-C35	520	272	mg/kg dry	10	P0F2502	06/25/20	06/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-1	30	P0F2502	06/25/20	06/25/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-1	30	P0F2502	06/25/20	06/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	9730	272	mg/kg dry	10	[CALC]	06/25/20	06/25/20	calc	

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

AH-2 @ 7' 0F24012-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Invironmen	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	7.77	0.114	mg/kg dry	100	P0F2905	06/29/20	06/30/20	EPA 8021B	
Toluene	27.1	0.114	mg/kg dry	100	P0F2905	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	21.4	0.114	mg/kg dry	100	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	52.8	0.227	mg/kg dry	100	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	18.1	0.114	mg/kg dry	100	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		60.6 %	75-1	25	P0F2905	06/29/20	06/30/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		89.7 %	75-1	25	P0F2905	06/29/20	06/30/20	EPA 8021B	
General Chemistry Parameters by EI	PA / Standard Method	<u>s</u>							
Chloride	71.9	1.14	mg/kg dry	1	P0F2608	06/26/20	06/26/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0F2601	06/26/20	06/26/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C.	35 by EPA Method 80	15M							
C6-C12	5610	284	mg/kg dry	10	P0F2502	06/25/20	06/25/20	TPH 8015M	
>C12-C28	8770	284	mg/kg dry	10	P0F2502	06/25/20	06/25/20	TPH 8015M	
>C28-C35	694	284	mg/kg dry	10	P0F2502	06/25/20	06/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		120 %	70-1	30	P0F2502	06/25/20	06/25/20	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-1	30	P0F2502	06/25/20	06/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	15100	284	mg/kg dry	10	[CALC]	06/25/20	06/25/20	calc	

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

AH-2 @ 9' 0F24012-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	nian Basin E	nvironmen	tal Lab, l	L.P.				
BTEX by 8021B									
Benzene	0.0163	0.00111	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Toluene	0.0665	0.00111	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	0.0746	0.00111	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	0.268	0.00222	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	0.0949	0.00111	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.6 %	75-12	25	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		67.1 %	75-12	25	P0F2905	06/29/20	06/30/20	EPA 8021B	S-GC
General Chemistry Parameters by EP	A / Standard Method	1 <u>s</u>							
Chloride	53.8	1.11	mg/kg dry	1	P0F2608	06/26/20	06/26/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0F2601	06/26/20	06/26/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	175	27.8	mg/kg dry	1	P0F2502	06/25/20	06/25/20	TPH 8015M	
>C12-C28	796	27.8	mg/kg dry	1	P0F2502	06/25/20	06/25/20	TPH 8015M	
>C28-C35	63.1	27.8	mg/kg dry	1	P0F2502	06/25/20	06/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-1.	30	P0F2502	06/25/20	06/25/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-1.	30	P0F2502	06/25/20	06/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1030	27.8	mg/kg dry	1	[CALC]	06/25/20	06/25/20	calc	

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F2905 - General Preparation (C	GC)									
Blank (P0F2905-BLK1)				Prepared: (06/29/20 Ar	nalyzed: 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 Ar	nalyzed: 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-BSD1)				Prepared: (06/29/20 Ar	nalyzed: 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 Ar	nalyzed: 06	/30/20			
Benzene	0.00	<u> </u>	mg/kg wet			<u> </u>	<u> </u>		<u> </u>	
Toluene	0.420		"							
Ethylbenzene	0.330		"							
Xylene (p/m)	0.530		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		87.0	75-125			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F2905 - General Preparation (GC)									
Calibration Blank (P0F2905-CCB2)				Prepared: (06/29/20 A1	nalyzed: 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 Aı	nalyzed: 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 Aı	nalyzed: 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: 1,4-Difluorobenzene	0.115		"	0.120		96.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		87.0	75-125			
Calibration Check (P0F2905-CCV2)				Prepared: (06/29/20 Aı	nalyzed: 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: 1,4-Difluorobenzene	0.116		"	0.120		96.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.8	75-125			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F2905 - General Preparation (GC	C)									
Calibration Check (P0F2905-CCV3)				Prepared: (06/29/20 A	nalyzed: 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: 4-Bromofluorobenzene	0.109		"	0.120		90.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.5	75-125			
Matrix Spike (P0F2905-MS1)	Sou	rce: 0F26003	-01	Prepared: (06/29/20 A	nalyzed: 06	/30/20			
Benzene	0.0778	0.00110	mg/kg dry	0.110	ND	70.8	80-120			QM-0
Toluene	0.0679	0.00110	"	0.110	ND	61.8	80-120			QM-0
Ethylbenzene	0.0606	0.00110	"	0.110	ND	55.2	80-120			QM-0
Xylene (p/m)	0.158	0.00220	"	0.220	ND	71.9	80-120			QM-0
Xylene (o)	0.0859	0.00110	"	0.110	ND	78.2	80-120			QM-0
Surrogate: 4-Bromofluorobenzene	0.120		"	0.132		91.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.132		96.4	75-125			
Matrix Spike Dup (P0F2905-MSD1)	Sou	rce: 0F26003	-01	Prepared: (06/29/20 A	nalyzed: 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-0
Ethylbenzene	0.0733	0.00110	"	0.110	ND	66.7	80-120	19.0	20	QM-0
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: 1,4-Difluorobenzene	0.128		"	0.132		97.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.132		91.0	75-125			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

	D .:		G 7	C		0/DEC		DDD	
Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
			Prepared &	Analyzed:	06/26/20				
ND	0.1	%							
Sour	rce: 0F25004	-10	Prepared &	Analyzed:	06/26/20				
10.0	0.1	%		11.0			9.52	20	
			Prepared &	. Analyzed:	06/26/20				
ND	1.00	mg/kg wet							
			Prepared &	Analyzed:	06/26/20				
391	1.00	mg/kg wet	400		97.8	80-120			
			Prepared &	Analyzed:	06/26/20				
391	1.00	mg/kg wet	400		97.7	80-120	0.118	20	
			Prepared &	z Analyzed:	06/26/20				
0.00		mg/kg wet							
			Prepared &	Analyzed:	06/26/20				
19.0		mg/kg	20.0	-	95.2	0-200			
			Prepared &	z Analyzed:	06/26/20				
19.2		mg/kg	20.0	-	95.8	0-200			
			Prepared: ()6/26/20 A	nalyzed: 06	/27/20			
21.0		mg/kg	20.0		105	0-200			
	ND Soun 10.0 ND 391 391 0.00 19.0	ND 0.1 Source: 0F25004 10.0 0.1 ND 1.00 391 1.00 0.00 19.0	ND	ND	ND	ND 0.1 % Prepared & Analyzed: 06/26/20 ND O.1 % Prepared & Analyzed: 06/26/20 10.0 O.1 % 11.0 ND 1.00 mg/kg wet Prepared & Analyzed: 06/26/20 ND 1.00 mg/kg wet 400 97.8 Prepared & Analyzed: 06/26/20 391 1.00 mg/kg wet 400 97.7 Prepared & Analyzed: 06/26/20 391 1.00 mg/kg wet 400 97.7 Prepared & Analyzed: 06/26/20 19.0 mg/kg wet 400 97.7 Prepared & Analyzed: 06/26/20 19.0 mg/kg wet 400 97.7 Prepared & Analyzed: 06/26/20 19.0 mg/kg wet 400 95.2 Prepared & Analyzed: 06/26/20 19.0 mg/kg 20.0 95.2 Prepared & Analyzed: 06/26/20 19.2 mg/kg 20.0 95.8 Prepared: 06/26/20 Analyzed: 06/26/20 Prepared: 06/26/20 Analyzed: 06/26/20 Prepared: 06/26/20 Analyzed: 06/26/20 Prepared: 06/26/20 Analyzed: 06/26/20	ND	ND	Result

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting	Spike	Source		%REC		RPD	
Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F2608 - *** DEFAULT PREP ***									
Matrix Spike (P0F2608-MS1)	Sour	ce: 0F24014-02	Prepared &	& Analyzed:	06/26/20				
Chloride	14300	27.2 mg/kg dry	2720	11100	117	80-120			
Matrix Spike (P0F2608-MS2)	Sour	ce: 0F25004-10	Prepared &	& Analyzed:	06/26/20				
Chloride	551	1.12 mg/kg dry	562	36.5	91.6	80-120			
Matrix Spike Dup (P0F2608-MSD1)	Sour	ce: 0F24014-02	Prepared &	& Analyzed:	06/26/20				
Chloride	13900	27.2 mg/kg dry	2720	11100	102	80-120	3.06	20	
Matrix Spike Dup (P0F2608-MSD2)	Sour	ce: 0F25004-10	Prepared &	& Analyzed:	06/26/20				
Chloride	559	1.12 mg/kg dry	562	36.5	93.0	80-120	1.34	20	

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F2502 - TX 1005										
Blank (P0F2502-BLK1)				Prepared &	Analyzed:	06/25/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	46.4		"	50.0		92.7	70-130			
LCS (P0F2502-BS1)				Prepared &	: Analyzed:	06/25/20				
C6-C12	878	25.0	mg/kg wet	1000		87.8	75-125			
>C12-C28	928	25.0	"	1000		92.8	75-125			
Surrogate: 1-Chlorooctane	94.3		"	100		94.3	70-130			
Surrogate: o-Terphenyl	41.6		"	50.0		83.1	70-130			
LCS Dup (P0F2502-BSD1)				Prepared &	: Analyzed:	06/25/20				
C6-C12	888	25.0	mg/kg wet	1000		88.8	75-125	1.11	20	
>C12-C28	1010	25.0	"	1000		101	75-125	8.32	20	
Surrogate: 1-Chlorooctane	95.2		"	100		95.2	70-130			
Surrogate: o-Terphenyl	41.6		"	50.0		83.1	70-130			
Calibration Check (P0F2502-CCV1)				Prepared &	: Analyzed:	06/25/20				
C6-C12	554	25.0	mg/kg wet	500		111	85-115			
>C12-C28	558	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	43.8		"	50.0		87.5	70-130			
Calibration Check (P0F2502-CCV2)				Prepared &	: Analyzed:	06/25/20				
C6-C12	560	25.0	mg/kg wet	500		112	85-115			
>C12-C28	564	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	45.6		"	50.0		91.1	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F2502 - TX 1005										
Calibration Check (P0F2502-CCV3)				Prepared: (06/25/20 A	nalyzed: 06	5/26/20			
C6-C12	546	25.0	mg/kg wet	500		109	85-115			
>C12-C28	566	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	47.3		"	50.0		94.6	70-130			
Matrix Spike (P0F2502-MS1)	Sou	rce: 0F24009	-01	Prepared &	& Analyzed:	06/25/20				
C6-C12	1080	129	mg/kg dry	1030	109	93.7	75-125			
>C12-C28	3130	129	"	1030	2310	79.5	75-125			
Surrogate: 1-Chlorooctane	91.0		"	103		88.2	70-130			
Surrogate: o-Terphenyl	43.1		"	51.5		83.6	70-130			
Matrix Spike Dup (P0F2502-MSD1)	Sou	rce: 0F24009	-01	Prepared &	& Analyzed:	: 06/25/20				
C6-C12	1080	129	mg/kg dry	1030	109	94.2	75-125	0.484	20	
>C12-C28	3080	129	"	1030	2310	75.0	75-125	5.94	20	
Surrogate: 1-Chlorooctane	91.4		"	103		88.7	70-130			
Surrogate: o-Terphenyl	43.1		"	51.5		83.7	70-130			

Dean	Project: Plains: Mewborne Toro	Fax:
12600 W County Rd 91	Project Number: PP-2061/SRS#2020-050	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

Notes and Definitions

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

	Drew	Darron		
Report Approved By:			Date:	7/5/2020

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.

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

Permian Basin Environmental Lab, L.P.

Relinquished by:	Relinquished by	Relinquished by: All Ambour	Special Instructions:						i	дн-2 (21 AH-1 C 9'	AH-1	FIELD CODE	ORDER #: UT 2/40(2)) 7		Sampler Signature:	Telephone No: 432 - 2	City/State/Zip: Midlund	Company Address: 12.600		Project Manager:	PERMINAR
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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 Mewbourne Toro

Project Number: PP-2061 Location: Lea County, NM

Lab Order Number: 0F26019



NELAP/TCEQ # T104704516-17-8

Report Date: 07/10/20

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number:PP-2061Midland TX, 79707Project Manager:Sylwia Reynolds

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 @ 11'	0F26019-01	Soil	06/25/20 08:45	06-26-2020 13:00
AH-2 @ 11'	0F26019-02	Soil	06/25/20 09:15	06-26-2020 13:00
NE Wall @ 1'	0F26019-03	Soil	06/25/20 12:00	06-26-2020 13:00
NE Wall @ 3'	0F26019-04	Soil	06/25/20 12:15	06-26-2020 13:00
SE Wall @ 1'	0F26019-05	Soil	06/25/20 14:00	06-26-2020 13:00

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

AH-1 @ 11' 0F26019-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		nian Basin E				1	-,		
	Pern	iiaii dasin E	anvironinei	itai Lad, l	⊔ .f.				
BTEX by 8021B									
Benzene	0.101	0.0222	mg/kg dry	20	P0F2907	06/29/20	07/01/20	EPA 8021B	
Toluene	0.657	0.0222	mg/kg dry	20	P0F2907	06/29/20	07/01/20	EPA 8021B	
Ethylbenzene	1.51	0.0222	mg/kg dry	20	P0F2907	06/29/20	07/01/20	EPA 8021B	
Xylene (p/m)	4.41	0.0444	mg/kg dry	20	P0F2907	06/29/20	07/01/20	EPA 8021B	
Xylene (o)	1.74	0.0222	mg/kg dry	20	P0F2907	06/29/20	07/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		65.3 %	75-1	25	P0F2907	06/29/20	07/01/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		95.3 %	75-1	25	P0F2907	06/29/20	07/01/20	EPA 8021B	
General Chemistry Parameters by E			ma/ka des	1	P0F3003	06/20/20	07/01/20	EPA 300.0	
Chloride	61.7	1.11	mg/kg dry %	1	P0F3003 P0F2701	06/30/20	07/01/20	ASTM D2216	
% Moisture	10.0	0.1	70	1	rur2/01	06/27/20	06/29/20	A51WI D2210	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	707	27.8	mg/kg dry	1	P0F2903	06/29/20	06/30/20	TPH 8015M	
>C12-C28	2510	27.8	mg/kg dry	1	P0F2903	06/29/20	06/30/20	TPH 8015M	
>C28-C35	228	27.8	mg/kg dry	1	P0F2903	06/29/20	06/30/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.2 %	70-1	30	P0F2903	06/29/20	06/30/20	TPH 8015M	
Surrogate: o-Terphenyl		99.6 %	70-1	30	P0F2903	06/29/20	06/30/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3450	27.8	mg/kg dry	1	[CALC]	06/29/20	06/30/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

AH-2 @ 11' 0F26019-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	0.0290	0.0225	mg/kg dry	20	P0F2907	06/29/20	07/01/20	EPA 8021B	
Toluene	0.151	0.0225	mg/kg dry	20	P0F2907	06/29/20	07/01/20	EPA 8021B	
Ethylbenzene	0.278	0.0225	mg/kg dry	20	P0F2907	06/29/20	07/01/20	EPA 8021B	
Xylene (p/m)	1.49	0.0449	mg/kg dry	20	P0F2907	06/29/20	07/01/20	EPA 8021B	
Xylene (o)	0.459	0.0225	mg/kg dry	20	P0F2907	06/29/20	07/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.8 %	75-1	25	P0F2907	06/29/20	07/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.0 %	75-1	25	P0F2907	06/29/20	07/01/20	EPA 8021B	
General Chemistry Parameters by EI	PA / Standard Method	ls							
Chloride	81.8	1.12	mg/kg dry	1	P0F3003	06/30/20	07/01/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	166	28.1	mg/kg dry	1	P0F2903	06/29/20	06/30/20	TPH 8015M	
>C12-C28	1020	28.1	mg/kg dry	1	P0F2903	06/29/20	06/30/20	TPH 8015M	
>C28-C35	97.5	28.1	mg/kg dry	1	P0F2903	06/29/20	06/30/20	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-1	30	P0F2903	06/29/20	06/30/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-1	30	P0F2903	06/29/20	06/30/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1290	28.1	mg/kg dry	1	[CALC]	06/29/20	06/30/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

NE Wall @ 1' 0F26019-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environmer	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	3.12	0.0225	mg/kg dry	20	P0F2907	06/29/20	07/01/20	EPA 8021B	•
Toluene	7.52	0.0225	mg/kg dry	20	P0F2907	06/29/20	07/01/20	EPA 8021B	
Ethylbenzene	7.85	0.0225	mg/kg dry	20	P0F2907	06/29/20	07/01/20	EPA 8021B	
Xylene (p/m)	14.1	0.0449	mg/kg dry	20	P0F2907	06/29/20	07/01/20	EPA 8021B	
Xylene (o)	8.35	0.0225	mg/kg dry	20	P0F2907	06/29/20	07/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.7 %	75-1	25	P0F2907	06/29/20	07/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		57.5 %	75-1	25	P0F2907	06/29/20	07/01/20	EPA 8021B	S-GC
General Chemistry Parameters by EP	A / Standard Method	s							
Chloride	52.1	1.12	mg/kg dry	1	P0F3003	06/30/20	07/01/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	55 by EPA Method 80	15M							
C6-C12	3430	140	mg/kg dry	5	P0F2903	06/29/20	06/30/20	TPH 8015M	
>C12-C28	7560	140	mg/kg dry	5	P0F2903	06/29/20	06/30/20	TPH 8015M	
>C28-C35	786	140	mg/kg dry	5	P0F2903	06/29/20	06/30/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-1	30	P0F2903	06/29/20	06/30/20	TPH 8015M	<u> </u>
Surrogate: o-Terphenyl		102 %	70-1	30	P0F2903	06/29/20	06/30/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	11800	140	mg/kg dry	5	[CALC]	06/29/20	06/30/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

NE Wall @ 3' 0F26019-04 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EP	A / Standard Methods	i						
% Moisture	13.0	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 801	5M						
C6-C12	3660	144	mg/kg dry	5	P0F2903	06/29/20	06/30/20	TPH 8015M
>C12-C28	7370	144	mg/kg dry	5	P0F2903	06/29/20	06/30/20	TPH 8015M
>C28-C35	708	144	mg/kg dry	5	P0F2903	06/29/20	06/30/20	TPH 8015M
Surrogate: 1-Chlorooctane		105 %	70-130		P0F2903	06/29/20	06/30/20	TPH 8015M
Surrogate: o-Terphenyl		102 %	70-130		P0F2903	06/29/20	06/30/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	11700	144	mg/kg dry	5	[CALC]	06/29/20	06/30/20	calc

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

SE Wall @ 1' 0F26019-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Environme	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Ethylbenzene	0.00530	0.00108	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Xylene (p/m)	0.0147	0.00215	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Xylene (o)	0.00165	0.00108	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		59.0 %	75-1	25	P0G0105	07/01/20	07/01/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		98.8 %	75-1	25	P0G0105	07/01/20	07/01/20	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	171	1.08	mg/kg dry	1	P0F3003	06/30/20	07/01/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80)15M							
C6-C12	37.0	26.9	mg/kg dry	1	P0F2903	06/29/20	06/30/20	TPH 8015M	
>C12-C28	761	26.9	mg/kg dry	1	P0F2903	06/29/20	06/30/20	TPH 8015M	
>C28-C35	73.7	26.9	mg/kg dry	1	P0F2903	06/29/20	06/30/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.0 %	70-1	30	P0F2903	06/29/20	06/30/20	TPH 8015M	
Surrogate: o-Terphenyl		96.5 %	70-1	30	P0F2903	06/29/20	06/30/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	871	26.9	mg/kg dry	1	[CALC]	06/29/20	06/30/20	calc	

Dean Project: Plains Mewbourne Toro

0.390

0.114

0.110

12600 W County Rd 91 Midland TX, 79707 signat Namehom DD 2061

Project Number: PP-2061

Project Manager: Sylwia Reynolds

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F2907 - General Preparation (GC)										
Blank (P0F2907-BLK1)				Prepared: (06/29/20 Aı	nalyzed: 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	0.114		"	0.120		95.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.2	75-125			
LCS (P0F2907-BS1)				Prepared: (06/29/20 Aı	nalyzed: 06	/30/20			
Benzene	0.0999	0.00100	mg/kg wet	0.100		99.9	70-130			
Toluene	0.0957	0.00100	"	0.100		95.7	70-130			
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130			
Xylene (p/m)	0.187	0.00200	"	0.200		93.3	70-130			
Xylene (o)	0.101	0.00100	"	0.100		101	70-130			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.8	75-125			
LCS Dup (P0F2907-BSD1)				Prepared: (06/29/20 Aı	nalyzed: 06	/30/20			
Benzene	0.0974	0.00100	mg/kg wet	0.100		97.4	70-130	2.57	20	
Toluene	0.0946	0.00100	"	0.100		94.6	70-130	1.12	20	
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130	1.85	20	
Xylene (p/m)	0.188	0.00200	"	0.200		94.2	70-130	1.00	20	
Xylene (o)	0.102	0.00100	"	0.100		102	70-130	0.895	20	
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.3	75-125			
Calibration Blank (P0F2907-CCB1)				Prepared: (06/29/20 Aı	nalyzed: 06	/30/20			
Benzene	0.00	<u> </u>	mg/kg wet			<u> </u>		<u> </u>		
Toluene	0.410		"							
Ethylbenzene	0.400		"							
Xylene (p/m)	1.03		"							

Permian Basin Environmental Lab, L.P.

Xylene (o)

Surrogate: 1,4-Difluorobenzene

Surrogate: 4-Bromofluorobenzene

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.

94.6

91.8

75-125

75-125

0.120

0.120

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Midland TX, 79707 Project Number: PP-2061

Project Manager: Sylwia Reynolds

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Calibration Blank (P0F2907-CCB2)				Prepared: 06/29/2	20 Analyzed: 07	7/01/20
Benzene	0.00		mg/kg wet			
Toluene	0.380		"			
Ethylbenzene	0.360		"			
Xylene (p/m)	0.710		"			
Xylene (o)	0.00		"			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120	93.2	75-125
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120	90.8	75-125
Calibration Blank (P0F2907-CCB3)				Prepared: 06/29/2	20 Analyzed: 07	7/01/20
Benzene	0.00		mg/kg wet			
Toluene	0.540		"			
Ethylbenzene	0.340		"			
Xylene (p/m)	1.15		"			
Xylene (o)	0.340		"			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120	92.3	75-125
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120	93.8	75-125
Calibration Check (P0F2907-CCV1)				Prepared: 06/29/2	20 Analyzed: 06	5/30/20
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: 4-Bromofluorobenzene	0.109		"	0.120	90.5	75-125
urrogate: 1,4-Difluorobenzene	0.116		"	0.120	96.5	75-125
Calibration Check (P0F2907-CCV2)				Prepared: 06/29/2	20 Analyzed: 07	7/01/20
Benzene	0.102	0.00100	mg/kg wet	0.100	102	80-120
Toluene	0.0966	0.00100	"	0.100	96.6	80-120
Ethylbenzene	0.0972	0.00100	"	0.100	97.2	80-120
Xylene (p/m)	0.187	0.00200	"	0.200	93.5	80-120
Xylene (o)	0.105	0.00100	"	0.100	105	80-120
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120	95.5	75-125
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120	92.1	75-125

Permian Basin Environmental Lab, L.P.

RPD

%REC

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Midland TX, 79707 Project: Frams Mewbourne 10

Spike

Source

Project Number: PP-2061

Project Manager: Sylwia Reynolds

Reporting

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F2907 - General Preparation (GC))									
Calibration Check (P0F2907-CCV3)				Prepared: (06/29/20 Aı	nalyzed: 07	/01/20			
Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.8	75-125			

Matrix Spike (P0F2907-MS1)	Sour	rce: 0F26003	-10	Prepared: 0	6/29/20 A	nalyzed: 07	7/01/20	
Benzene	0.0850	0.00100	mg/kg dry	0.100	ND	85.0	80-120	
Toluene	0.0759	0.00100	"	0.100	ND	75.9	80-120	QM-07
Ethylbenzene	0.0379	0.00100	"	0.100	ND	37.9	80-120	QM-07
Xylene (p/m)	0.0868	0.00200	"	0.200	ND	43.4	80-120	QM-07
Xylene (o)	0.0419	0.00100	"	0.100	ND	41.9	80-120	QM-07
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.9	75-125	
Surrogate: 4-Bromofluorobenzene	0.0781		"	0.120		65.1	75-125	S-GC

Matrix Spike Dup (P0F2907-MSD1)	Sour	Source: 0F26003-10			6/29/20 A	nalyzed: 07				
Benzene	0.106	0.00100	mg/kg dry	0.100	ND	106	80-120	21.5	20	QM-07
Toluene	0.0972	0.00100	"	0.100	ND	97.2	80-120	24.6	20	QM-07
Ethylbenzene	0.0815	0.00100	"	0.100	ND	81.5	80-120	73.1	20	QM-07
Xylene (p/m)	0.128	0.00200	"	0.200	ND	63.9	80-120	38.2	20	QM-07
Xylene (o)	0.0669	0.00100	"	0.100	ND	66.9	80-120	46.0	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.0942		"	0.120		78.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	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: 1,4-Difluorobenzene	0.113		"	0.120	94.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120	89.6	75-125			

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Midland TX, 79707

Project Number: PP-2061

Project Manager: Sylwia Reynolds

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source	N/PTG	%REC		RPD	37.
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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: 1,4-Difluorobenzene	0.115		"	0.120		95.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		89.7	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: 4-Bromofluorobenzene	0.113		"	0.120		94.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.3	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: 4-Bromofluorobenzene	0.110		"	0.120		91.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.8	75-125			

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

0.106

0.105

0.118

0.00100

12600 W County Rd 91 Midland TX, 79707

Project Number: PP-2061

Project Manager: Sylwia Reynolds

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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 & Ana	lyzed: 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: 4-Bromofluorobenzene	0.110		"	0.120	91.8	75-125
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120	95.7	75-125
Calibration Check (P0G0105-CCV2)				Prepared & Ana	lyzed: 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

Permian Basin Environmental Lab, L.P.

Xylene (o)

Surrogate: 4-Bromofluorobenzene Surrogate: 1,4-Difluorobenzene

> 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.

80-120

75-125

75-125

106

87.5

98.2

0.100

0.120

0.120

12600 W County Rd 91 Midland TX, 79707

Project Manager: Sylwia Reynolds

Project Number: PP-2061

Fax:

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch P0G0105 - General Preparation (Control of the Control of the	\mathbf{GC})
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Matrix Spike (P0G0105-MS1)	Sour	ce: 0G01013	-06	Prepared:	07/01/20 An	alyzed: 07	7/02/20			
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: 1,4-Difluorobenzene	0.122		"	0.125		97.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.125		87.1	75-125			
Matrix Spike Dup (P0G0105-MSD1)	Sour	ce: 0G01013	-06	Prepared:	07/01/20 An	alyzed: 07	7/02/20			
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

Matrix Spike Dup (1 000103-MSD1)	Soul	ce. udului3	-00	r repared.	07/01/20 AL	aryzeu. O	1102120			
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: 1,4-Difluorobenzene	0.122		"	0.125		97.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.125		86.6	75-125			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-2061Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F2701 - *** DEFAULT PREP ***										
Blank (P0F2701-BLK1)				Prepared: (06/27/20	Analyzed: 06	/29/20			
% Moisture	ND	0.1	%							
Duplicate (P0F2701-DUP1)	Sou	rce: 0F26003-	14	Prepared: (06/27/20	Analyzed: 06	/29/20			
% Moisture	ND	0.1	%		ND				20	
Duplicate (P0F2701-DUP2)	Sou	rce: 0F26010-	11	Prepared: (06/27/20	Analyzed: 06	/29/20			
% Moisture	6.0	0.1	%		6.0	-		0.00	20	
Duplicate (P0F2701-DUP3)	Sou	rce: 0F26010-	38	Prepared: (06/27/20	Analyzed: 06	/29/20			
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0F2701-DUP4)	Sour	rce: 0F26015-	11	Prepared: (06/27/20	Analyzed: 06	/29/20			
% Moisture	ND	0.1	%		ND				20	
Batch P0F3003 - *** DEFAULT PREP ***										
Blank (P0F3003-BLK1)				Prepared: (06/30/20	Analyzed: 07	/01/20			
Chloride	ND	1.00	mg/kg wet							
LCS (P0F3003-BS1)				Prepared: (06/30/20	Analyzed: 07	/01/20			
Chloride	411	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P0F3003-BSD1)				Prepared: (06/30/20	Analyzed: 07	/01/20			
Chloride	407	1.00	mg/kg wet	400		102	80-120	0.851	20	
Calibration Check (P0F3003-CCV1)				Prepared: (06/30/20	Analyzed: 07	/01/20			
Chloride	19.4		mg/kg	20.0		97.0	0-200			

12600 W County Rd 91 Project Number: PP-2061
Midland TX, 79707 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
Analyte	Kesuit	Lillit	Units	Level	Kesuit	/0KEC	Lillits	KrD	FIIIII	notes
Batch P0F3003 - *** DEFAULT PREP ***										
Calibration Check (P0F3003-CCV2)				Prepared: (06/30/20 A	Analyzed: 07	//01/20			
Chloride	18.7		mg/kg	20.0		93.3	0-200			
Matrix Spike (P0F3003-MS1)	Sour	rce: 0F26018	-07	Prepared: (06/30/20 A	Analyzed: 07	//01/20			
Chloride	521	1.04	mg/kg dry	521	22.6	95.7	80-120			
Matrix Spike (P0F3003-MS2)	Soui	rce: 0F26022	-03	Prepared: (06/30/20 A	Analyzed: 07	//01/20			
Chloride	5040	11.4	mg/kg dry	1140	3540	132	80-120			QM-0:
Matrix Spike Dup (P0F3003-MSD1)	Sour	rce: 0F26018	-07	Prepared: (06/30/20 A	Analyzed: 07	//01/20			
Chloride	499	1.04	mg/kg dry	521	22.6	91.4	80-120	4.43	20	
Matrix Spike Dup (P0F3003-MSD2)	Sour	rce: 0F26022	-03	Prepared: (06/30/20 A	Analyzed: 07	//01/20			
Chloride	4900	11.4	mg/kg dry	1140	3540	119	80-120	2.80	20	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F2903 - TX 1005										
Blank (P0F2903-BLK1)				Prepared &	Analyzed:	06/29/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	90.4		"	100		90.4	70-130			
Surrogate: o-Terphenyl	42.0		"	50.0		84.0	70-130			
LCS (P0F2903-BS1)				Prepared &	Analyzed:	06/29/20				
C6-C12	826	25.0	mg/kg wet	1000		82.6	75-125			
>C12-C28	886	25.0	"	1000		88.6	75-125			
Surrogate: 1-Chlorooctane	83.7		"	100		83.7	70-130			
Surrogate: o-Terphenyl	38.3		"	50.0		76.6	70-130			
LCS Dup (P0F2903-BSD1)				Prepared &	Analyzed:	06/29/20				
C6-C12	831	25.0	mg/kg wet	1000		83.1	75-125	0.567	20	
>C12-C28	900	25.0	"	1000		90.0	75-125	1.50	20	
Surrogate: 1-Chlorooctane	83.9		"	100		83.9	70-130			
Surrogate: o-Terphenyl	38.4		"	50.0		76.7	70-130			
Calibration Blank (P0F2903-CCB1)				Prepared &	Analyzed:	06/29/20				
C6-C12	18.8		mg/kg wet							
>C12-C28	18.2		"							
Surrogate: 1-Chlorooctane	92.0		"	100		92.0	70-130			
Surrogate: o-Terphenyl	43.0		"	50.0		86.1	70-130			
Calibration Blank (P0F2903-CCB2)				Prepared &	Analyzed:	06/29/20				
C6-C12	20.7		mg/kg wet							
>C12-C28	13.7		"							
Surrogate: 1-Chlorooctane	94.7		"	100		94.7	70-130			
Surrogate: o-Terphenyl	44.4		"	50.0		88.8	70-130			

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F2903 - TX 1005										
Calibration Check (P0F2903-CCV1)				Prepared &	Analyzed:	06/29/20				
C6-C12	518	25.0	mg/kg wet	500		104	85-115			
>C12-C28	520	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	75.6		"	100		75.6	70-130			
Surrogate: o-Terphenyl	34.8		"	50.0		69.5	70-130			S-GC
Calibration Check (P0F2903-CCV2)				Prepared &	z Analyzed:	06/29/20				
C6-C12	550	25.0	mg/kg wet	500		110	85-115			
>C12-C28	570	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	83.7		"	100		83.7	70-130			
Surrogate: o-Terphenyl	39.1		"	50.0		78.2	70-130			
Calibration Check (P0F2903-CCV3)				Prepared: (06/29/20 A	nalyzed: 06	5/30/20			
C6-C12	530	25.0	mg/kg wet	500		106	85-115			
>C12-C28	574	25.0	"	500		115	85-115			
Surrogate: 1-Chlorooctane	85.8		"	100		85.8	70-130			
Surrogate: o-Terphenyl	39.8		"	50.0		79.7	70-130			
Matrix Spike (P0F2903-MS1)	Sou	rce: 0F26010)-35	Prepared: (06/29/20 A	nalyzed: 06	5/30/20			
C6-C12	1150	25.3	mg/kg dry	1010	17.7	112	75-125			
>C12-C28	1250	25.3	"	1010	16.4	122	75-125			
Surrogate: 1-Chlorooctane	93.2		"	101		92.3	70-130			
Surrogate: o-Terphenyl	42.9		"	50.5		85.0	70-130			
Matrix Spike Dup (P0F2903-MSD1)	Sou	rce: 0F26010)-35	Prepared: (06/29/20 A	nalyzed: 06	5/30/20			
C6-C12	1190	25.3	mg/kg dry	1010	17.7	116	75-125	3.94	20	
>C12-C28	1260	25.3	"	1010	16.4	123	75-125	0.623	20	
Surrogate: 1-Chlorooctane	95.2		"	101		94.3	70-130			
Surrogate: o-Terphenyl	43.8		"	50.5		86.8	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

Notes and Definitions

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

ROI Received on Ice

QM-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:

e: 7/10/2020

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Sylwia Reynolds

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Permian Basin Environmental Lab, L.P.

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



Analytical Report

Prepared for:

Jeff Kindley
Dean
12600 W County Rd 91
Midland, TX 79707

Project: Plains Mewbourne Toro

Project Number: PP-2061 Location: Lea County, NM

Lab Order Number: 0G01013



NELAP/TCEQ # T104704516-17-8

Report Date: 07/15/20

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number:PP-2061Midland TX, 79707Project Manager:Jeff Kindley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 E @ 3'	0G01013-01	Soil	06/30/20 11:03	07-01-2020 11:41
AH-1 E @ 5'	0G01013-02	Soil	06/30/20 11:08	07-01-2020 11:41
AH-1 E @ 7'	0G01013-03	Soil	06/30/20 11:17	07-01-2020 11:41
AH-1 SE @ 3'	0G01013-06	Soil	06/30/20 10:00	07-01-2020 11:41
AH-1 SE @ 5'	0G01013-07	Soil	06/30/20 10:21	07-01-2020 11:41
AH-1 SE @ 7'	0G01013-08	Soil	06/30/20 10:43	07-01-2020 11:41
AH-1 NE @ 3'	0G01013-09	Soil	06/30/20 11:47	07-01-2020 11:41
AH-1 NE @ 5'	0G01013-10	Soil	06/30/20 11:51	07-01-2020 11:41
AH-1 NE @ 7'	0G01013-11	Soil	06/30/20 12:00	07-01-2020 11:41
AH-1 NE @ 9'	0G01013-12	Soil	06/30/20 12:19	07-01-2020 11:41
AH-1 NE @ 11'	0G01013-13	Soil	06/30/20 12:58	07-01-2020 11:41

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

AH-1 E @ 3' 0G01013-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u> </u>	Perm	ian Basin F	Environme	ıtal Lab, l	L.P.				
BTEX by 8021B									
Benzene	1.94	0.108	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Toluene	10.6	0.108	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Ethylbenzene	14.2	0.108	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (p/m)	37.3	0.215	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (o)	14.6	0.108	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		62.5 %	75-1	25	P0G0105	07/01/20	07/02/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		90.0 %	75-1	25	P0G0105	07/01/20	07/02/20	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Method	S							
Chloride	12.2	1.08	mg/kg dry	1	P0G0401	07/04/20	07/04/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	1700	134	mg/kg dry	5	P0G0203	07/02/20	07/04/20	TPH 8015M	
>C12-C28	6190	134	mg/kg dry	5	P0G0203	07/02/20	07/04/20	TPH 8015M	
>C28-C35	648	134	mg/kg dry	5	P0G0203	07/02/20	07/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-1	30	P0G0203	07/02/20	07/04/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-1	30	P0G0203	07/02/20	07/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	8530	134	mg/kg dry	5	[CALC]	07/02/20	07/04/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

AH-1 E @ 5' 0G01013-02 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmen	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	ND	0.0230	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Toluene	0.0382	0.0230	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Ethylbenzene	0.0308	0.0230	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (p/m)	0.163	0.0460	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (o)	0.0354	0.0230	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.5 %	75-1	25	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.9 %	75-1	25	P0G0105	07/01/20	07/02/20	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	s							
Chloride	11.2	1.15	mg/kg dry	1	P0G0401	07/04/20	07/04/20	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	ND	28.7	mg/kg dry	1	P0G0204	07/02/20	07/06/20	TPH 8015M	
>C12-C28	198	28.7	mg/kg dry	1	P0G0204	07/02/20	07/06/20	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P0G0204	07/02/20	07/06/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.1 %	70-1	30	P0G0204	07/02/20	07/06/20	TPH 8015M	
Surrogate: o-Terphenyl		91.1 %	70-1	30	P0G0204	07/02/20	07/06/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	198	28.7	mg/kg dry	1	[CALC]	07/02/20	07/06/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

AH-1 E @ 7' 0G01013-03 (Soil)

Austra	Result	Reporting Limit	Units	Dilution	Batch	D	A	Method	N-4
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Invironmen	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	ND	0.0220	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Toluene	ND	0.0220	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Ethylbenzene	ND	0.0220	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (p/m)	0.0829	0.0440	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (o)	ND	0.0220	mg/kg dry	20	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.9 %	75-1	25	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.6 %	75-1	25	P0G0105	07/01/20	07/02/20	EPA 8021B	
General Chemistry Parameters by E	CPA / Standard Method	ls							
Chloride	11.1	1.10	mg/kg dry	1	P0G0401	07/04/20	07/04/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	ND	27.5	mg/kg dry	1	P0G0204	07/02/20	07/06/20	TPH 8015M	
>C12-C28	261	27.5	mg/kg dry	1	P0G0204	07/02/20	07/06/20	TPH 8015M	
>C28-C35	28.3	27.5	mg/kg dry	1	P0G0204	07/02/20	07/06/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.8 %	70-1	30	P0G0204	07/02/20	07/06/20	TPH 8015M	
Surrogate: o-Terphenyl		89.4 %	70-1	30	P0G0204	07/02/20	07/06/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	289	27.5	mg/kg dry	1	[CALC]	07/02/20	07/06/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

AH-1 SE @ 3' 0G01013-06 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	nian Basin E	Environmen	tal Lab, l	L .P.				
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Toluene	0.00614	0.00104	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Ethylbenzene	0.00539	0.00104	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Xylene (p/m)	0.0263	0.00208	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Xylene (o)	0.0104	0.00104	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.0 %	75-1.	25	P0G0105	07/01/20	07/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.6 %	75-1.	25	P0G0105	07/01/20	07/01/20	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	24.0	1.04	mg/kg dry	1	P0G0401	07/04/20	07/04/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	35.1	26.0	mg/kg dry	1	P0G0204	07/02/20	07/06/20	TPH 8015M	
>C12-C28	786	26.0	mg/kg dry	1	P0G0204	07/02/20	07/06/20	TPH 8015M	
>C28-C35	87.6	26.0	mg/kg dry	1	P0G0204	07/02/20	07/06/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.3 %	70-1.	30	P0G0204	07/02/20	07/06/20	TPH 8015M	
Surrogate: o-Terphenyl		91.0 %	70-1.	30	P0G0204	07/02/20	07/06/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	908	26.0	mg/kg dry	1	[CALC]	07/02/20	07/06/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

AH-1 SE @ 5' 0G01013-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmer	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	0.0104	0.00114	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Toluene	0.0692	0.00114	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Ethylbenzene	0.0886	0.00114	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Xylene (p/m)	0.315	0.00227	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Xylene (o)	0.116	0.00114	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.8 %	75-1	25	P0G0105	07/01/20	07/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		62.9 %	75-1	25	P0G0105	07/01/20	07/01/20	EPA 8021B	S-GC
General Chemistry Parameters by El	PA / Standard Method	ls							
Chloride	27.8	1.14	mg/kg dry	1	P0G0401	07/04/20	07/04/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	329	142	mg/kg dry	5	P0G0204	07/02/20	07/02/20	TPH 8015M	
>C12-C28	2950	142	mg/kg dry	5	P0G0204	07/02/20	07/02/20	TPH 8015M	
>C28-C35	300	142	mg/kg dry	5	P0G0204	07/02/20	07/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-1	30	P0G0204	07/02/20	07/02/20	TPH 8015M	
Surrogate: o-Terphenyl		91.8 %	70-1	30	P0G0204	07/02/20	07/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3580	142	mg/kg dry	5	[CALC]	07/02/20	07/02/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

AH-1 SE @ 7' 0G01013-08 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	nian Basin I	Environme	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	0.00255	0.00114	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Toluene	0.0278	0.00114	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Ethylbenzene	0.0373	0.00114	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Xylene (p/m)	0.158	0.00227	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Xylene (o)	0.0521	0.00114	mg/kg dry	1	P0G0105	07/01/20	07/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.0 %	75-1	25	P0G0105	07/01/20	07/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		68.0 %	75-1	25	P0G0105	07/01/20	07/01/20	EPA 8021B	S-GO
General Chemistry Parameters by E	CPA / Standard Method	s							
Chloride	29.2	1.14	mg/kg dry	1	P0G0702	07/07/20	07/07/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	265	28.4	mg/kg dry	1	P0G0204	07/02/20	07/06/20	TPH 8015M	
>C12-C28	2800	28.4	mg/kg dry	1	P0G0204	07/02/20	07/06/20	TPH 8015M	
>C28-C35	283	28.4	mg/kg dry	1	P0G0204	07/02/20	07/06/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-1	30	P0G0204	07/02/20	07/06/20	TPH 8015M	<u> </u>
Surrogate: o-Terphenyl		95.1 %	70-1	30	P0G0204	07/02/20	07/06/20	TPH 8015M	
Total Petroleum Hydrocarbon	3350	28.4	mg/kg dry	1	[CALC]	07/02/20	07/06/20	calc	
C6-C35									

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

AH-1 NE @ 3' 0G01013-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmen	ıtal Lab, l	L.P.				
BTEX by 8021B									
Benzene	2.11	0.109	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Toluene	8.20	0.109	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Ethylbenzene	3.06	0.109	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (p/m)	25.3	0.217	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (o)	9.33	0.109	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.2 %	75-1.	25	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		62.4 %	75-1.	25	P0G0105	07/01/20	07/02/20	EPA 8021B	S-GC
General Chemistry Parameters by EP	A / Standard Method	ls							
Chloride	93.6	1.09	mg/kg dry	1	P0G0702	07/07/20	07/07/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	2330	136	mg/kg dry	5	P0G0204	07/02/20	07/02/20	TPH 8015M	
>C12-C28	8430	136	mg/kg dry	5	P0G0204	07/02/20	07/02/20	TPH 8015M	
>C28-C35	856	136	mg/kg dry	5	P0G0204	07/02/20	07/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.0 %	70-1.	30	P0G0204	07/02/20	07/02/20	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-1.	30	P0G0204	07/02/20	07/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	11600	136	mg/kg dry	5	[CALC]	07/02/20	07/02/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

AH-1 NE @ 5' 0G01013-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Environmer	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	4.21	0.119	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Toluene	14.6	0.119	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Ethylbenzene	12.9	0.119	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (p/m)	34.6	0.238	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (o)	12.7	0.119	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.0 %	75-1	25	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		66.4 %	75-1	25	P0G0105	07/01/20	07/02/20	EPA 8021B	S-GC
General Chemistry Parameters by El	PA / Standard Method	s							
Chloride	30.9	1.19	mg/kg dry	1	P0G0702	07/07/20	07/07/20	EPA 300.0	
% Moisture	16.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	2070	149	mg/kg dry	5	P0G0204	07/02/20	07/02/20	TPH 8015M	
>C12-C28	5980	149	mg/kg dry	5	P0G0204	07/02/20	07/02/20	TPH 8015M	
>C28-C35	626	149	mg/kg dry	5	P0G0204	07/02/20	07/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		121 %	70-1	30	P0G0204	07/02/20	07/02/20	TPH 8015M	
Surrogate: o-Terphenyl		94.5 %	70-1	30	P0G0204	07/02/20	07/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	8690	149	mg/kg dry	5	[CALC]	07/02/20	07/02/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

AH-1 NE @ 7' 0G01013-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmen	ıtal Lab, l	L.P.				
BTEX by 8021B									
Benzene	2.79	0.110	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Toluene	14.3	0.110	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Ethylbenzene	14.7	0.110	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (p/m)	36.2	0.220	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Xylene (o)	13.0	0.110	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.4 %	75-1.	25	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		61.3 %	75-1.	25	P0G0105	07/01/20	07/02/20	EPA 8021B	S-GC
General Chemistry Parameters by EF	PA / Standard Method	ls							
Chloride	14.4	1.10	mg/kg dry	1	P0G0702	07/07/20	07/07/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	4220	137	mg/kg dry	5	P0G0204	07/02/20	07/02/20	TPH 8015M	
>C12-C28	10600	137	mg/kg dry	5	P0G0204	07/02/20	07/02/20	TPH 8015M	
>C28-C35	1090	137	mg/kg dry	5	P0G0204	07/02/20	07/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-1.	30	P0G0204	07/02/20	07/02/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-1.	30	P0G0204	07/02/20	07/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	15900	137	mg/kg dry	5	[CALC]	07/02/20	07/02/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

AH-1 NE @ 9' 0G01013-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environme	ntal Lab, l	L.P.				
Organics by GC									
Benzene	0.452	0.0200	mg/kg dry	20	P0G1301	07/13/20	07/13/20	EPA 8021B	
Toluene	5.45	0.0400	mg/kg dry	20	P0G1301	07/13/20	07/13/20	EPA 8021B	
Ethylbenzene	7.20	0.0400	mg/kg dry	20	P0G1301	07/13/20	07/13/20	EPA 8021B	
Xylene (p/m)	17.3	0.0400	mg/kg dry	20	P0G1301	07/13/20	07/13/20	EPA 8021B	
Xylene (o)	6.64	0.0400	mg/kg dry	20	P0G1301	07/13/20	07/13/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		83.4 %	75-1	25	P0G1301	07/13/20	07/13/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.7 %	75-1	25	P0G1301	07/13/20	07/13/20	EPA 8021B	
General Chemistry Parameters by EI	PA / Standard Method	ls							
% Moisture	10.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	1930	139	mg/kg dry	5	P0G0204	07/02/20	07/02/20	TPH 8015M	
>C12-C28	6380	139	mg/kg dry	5	P0G0204	07/02/20	07/02/20	TPH 8015M	
>C28-C35	508	139	mg/kg dry	5	P0G0204	07/02/20	07/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		118 %	70-1	30	P0G0204	07/02/20	07/02/20	TPH 8015M	
Surrogate: o-Terphenyl		98.6 %	70-1	30	P0G0204	07/02/20	07/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	8810	139	mg/kg dry	5	[CALC]	07/02/20	07/02/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

AH-1 NE @ 11' 0G01013-13 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

% Moisture	12.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M						
C6-C12	30.2	28.4	mg/kg dry	1	P0G0204	07/02/20	07/02/20	TPH 8015M
>C12-C28	402	28.4	mg/kg dry	1	P0G0204	07/02/20	07/02/20	TPH 8015M
>C28-C35	42.6	28.4	mg/kg dry	1	P0G0204	07/02/20	07/02/20	TPH 8015M
Surrogate: 1-Chlorooctane		97.4 %	70-130		P0G0204	07/02/20	07/02/20	TPH 8015M
Surrogate: o-Terphenyl		104 %	70-130		P0G0204	07/02/20	07/02/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	475	28.4	mg/kg dry	1	[CALC]	07/02/20	07/02/20	calc

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

Fax:

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

	D 1	Reporting	TT 1.	Spike	Source	A/DEC	%REC	DDD	RPD	NT .
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G0105 - General Preparation (C	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			
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: 4-Bromofluorobenzene	0.110		"	0.120		92.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.5	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			

Permian Basin Environmental Lab, L.P.

0.104

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

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
Batch P0G0105 - General Preparation (CC)									
Calibration Blank (P0G0105-CCB2)	GC)			Prepared &	Analyzed:	07/01/20				
Benzene	0.330		mg/kg wet	Tropulou c	- 1 111a1 y 25 a1	0,7,01,20				
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			
Calibration Blank (P0G0105-CCB3)				Prepared: (07/01/20 A	nalyzed: 07	7/02/20			
Benzene	0.00		mg/kg wet							
Toluene	0.940		"							
Ethylbenzene	0.830		"							
Xylene (p/m)	1.70		"							
Xylene (o)	0.690		"							
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.4	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: 1,4-Difluorobenzene	0.115		"	0.120		95.9	75-125			

Permian Basin Environmental Lab, L.P.

Surrogate: 4-Bromofluorobenzene

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.

86.4

75-125

0.120

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

Fax:

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G0105 - General Preparation (G	C)									
Calibration Check (P0G0105-CCV3)				Prepared:	07/01/20 Aı	nalyzed: 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: 4-Bromofluorobenzene	0.105		"	0.120		87.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	75-125			
Matrix Spike (P0G0105-MS1)	Sou	ırce: 0G01013	3-06	Prepared:	07/01/20 Aı	nalyzed: 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-1
Ethylbenzene	0.0840	0.00104	"	0.104	0.00539	75.5	80-120			QM-1
Xylene (p/m)	0.147	0.00208	"	0.208	0.0263	58.1	80-120			QM-1
Xylene (o)	0.0791	0.00104	"	0.104	0.0104	66.0	80-120			QM-1
Surrogate: 1,4-Difluorobenzene	0.122		"	0.125		97.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.125		87.1	75-125			
Matrix Spike Dup (P0G0105-MSD1)	Sou	ırce: 0G01013	3-06	Prepared:	07/01/20 Aı	nalyzed: 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-1
Ethylbenzene	0.0830	0.00104	"	0.104	0.00539	74.5	80-120	1.29	20	QM-1
Xylene (p/m)	0.146	0.00208	"	0.208	0.0263	57.4	80-120	1.20	20	QM-1
Xylene (o)	0.0800	0.00104	"	0.104	0.0104	66.8	80-120	1.24	20	QM-1
Surrogate: 1,4-Difluorobenzene	0.122		"	0.125		97.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.125		86.6	75-125			

Permian Basin Environmental Lab, L.P.

0.110

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

Fax:

Organics by GC - 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 P0G1301 - General Preparation (CC)									
Blank (P0G1301-BLK1)	de)			Prepared &	z Analyzed:	07/13/20				
Benzene	ND	0.00100	mg/kg wet	F		***************************************				
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00200	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00200	"							
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.0	75-125			
LCS (P0G1301-BS1)				Prepared &	Analyzed:	07/13/20				
Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.102	0.00200	"	0.100		102	80-120			
Ethylbenzene	0.109	0.00200	"	0.100		109	80-120			
Xylene (p/m)	0.225	0.00200	"	0.200		112	80-120			
Xylene (o)	0.104	0.00200	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		87.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.5	75-125			
Calibration Blank (P0G1301-CCB1)				Prepared &	Analyzed:	07/13/20				
Benzene	0.330		mg/kg wet							
Toluene	0.930		"							
Ethylbenzene	0.490		"							
Xylene (p/m)	0.860		"							
Xylene (o)	0.350		"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.7	75-125			
Calibration Blank (P0G1301-CCB2)				Prepared &	Analyzed:	07/13/20				
Benzene	0.00		mg/kg wet							
Toluene	0.670		"							
Ethylbenzene	0.460		"							
Xylene (p/m)	0.800		"							
Xylene (o)	0.430		"							
Surrogate: 4-Bromofluorobenzene	0.0983		"	0.120		81.9	75-125			
G	0.110									

Permian Basin Environmental Lab, L.P.

Surrogate: 1,4-Difluorobenzene

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.

92.0

75-125

0.120

12600 W County Rd 91Project Number:PP-2061Midland TX, 79707Project Manager:Jeff Kindley

Fax:

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Thatye	Result	Limit	Cints	Level	Result	70KEC	Limits	МЪ	Dillit	110103	
Batch P0G1301 - General Preparation (GC)										
Calibration Check (P0G1301-CCV1)	Prepared & Analyzed: 07/13/20										
Benzene	0.0987	0.00100	mg/kg wet	0.100		98.7	80-120				
Toluene	0.0925	0.00200	"	0.100		92.5	80-120				
Ethylbenzene	0.0971	0.00200	"	0.100		97.1	80-120				
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120				
Xylene (o)	0.0932	0.00200	"	0.100		93.2	80-120				
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.4	75-125				
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.7	75-125				
Calibration Check (P0G1301-CCV2)				Prepared &	& Analyzed:	07/13/20					
Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120				
Toluene	0.0960	0.00200	"	0.100		96.0	80-120				
Ethylbenzene	0.100	0.00200	"	0.100		100	80-120				
Xylene (p/m)	0.205	0.00200	"	0.200		103	80-120				
Xylene (o)	0.0973	0.00200	"	0.100		97.3	80-120				
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.7	75-125				
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.2	75-125				
Calibration Check (P0G1301-CCV3)				Prepared:	07/13/20 Ar	nalyzed: 07	//14/20				
Benzene	0.107	0.00100	mg/kg wet	0.100		107	80-120				
Toluene	0.105	0.00200	"	0.100		105	80-120				
Ethylbenzene	0.109	0.00200	"	0.100		109	80-120				
Xylene (p/m)	0.219	0.00200	"	0.200		109	80-120				
Xylene (o)	0.107	0.00200	"	0.100		107	80-120				
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.0	75-125				
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.8	75-125				
Matrix Spike (P0G1301-MS1)	Sou	rce: 0G13005	5-01	Prepared:	07/13/20 Ar	nalyzed: 07	//14/20				
Benzene	0.0869	0.00100	mg/kg dry	0.109	ND	80.0	80-120			QM-0	
Toluene	0.0686	0.00200	"	0.109	0.000511	62.6	80-120			QM-0	
Ethylbenzene	0.0523	0.00200	"	0.109	0.000620	47.5	80-120			QM-0	
Xylene (p/m)	0.150	0.00200	"	0.217	0.00307	67.5	80-120			QM-0	
Xylene (o)	0.0718	0.00200	"	0.109	0.000707	65.4	80-120			QM-0	
Surrogate: 4-Bromofluorobenzene	0.122		"	0.130		93.4	75-125				
Surrogate: 1,4-Difluorobenzene	0.126		"	0.130		97.0	75-125				

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-2061Midland TX, 79707Project Manager:Jeff Kindley

Fax:

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch P0G1301 - General Preparation (GC))
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Matrix Spike Dup (P0G1301-MSD1)	Sour	rce: 0G13005	Prepared: 07/13/20 Analyzed: 07/14/20							
Benzene	0.0825	0.00100	mg/kg dry	0.109	ND	75.9	80-120	5.24	20	QM-07
Toluene	0.0611	0.00200	"	0.109	0.000511	55.7	80-120	11.6	20	QM-07
Ethylbenzene	0.0502	0.00200	"	0.109	0.000620	45.6	80-120	4.17	20	QM-07
Xylene (p/m)	0.150	0.00200	"	0.217	0.00307	67.7	80-120	0.289	20	QM-07
Xylene (o)	0.0684	0.00200	"	0.109	0.000707	62.2	80-120	4.90	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.125		"	0.130		96.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.130		96.2	75-125			

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

oject Number: PP-2061

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 P0G0202 - *** DEFAULT PREP ***										
Blank (P0G0202-BLK1)				Prepared &	: Analyzed:	07/02/20				
% Moisture	ND	0.1	%							
Blank (P0G0202-BLK2)				Prepared &	: Analyzed:	07/02/20				
% Moisture	ND	0.1	%							
Duplicate (P0G0202-DUP1)	Sou	rce: 0G01003-	01	Prepared &	: Analyzed:	07/02/20				
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P0G0202-DUP2)	Sou	rce: 0G01003-	11	Prepared &	: Analyzed:	07/02/20				
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P0G0202-DUP3)	Sou	rce: 0G01004-	01	Prepared &	: Analyzed:	07/02/20				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P0G0202-DUP4)	Sou	rce: 0G01009-	05	Prepared &	: Analyzed:	07/02/20				
% Moisture	10.0	0.1	%		13.0			26.1	20	I
Duplicate (P0G0202-DUP5)	Sou	rce: 0G01011-	01	Prepared &	: Analyzed:	07/02/20				
% Moisture	5.0	0.1	%		7.0			33.3	20	I
Duplicate (P0G0202-DUP6)	Sou	rce: 0G01011-	11	Prepared &	: Analyzed:	07/02/20				
% Moisture	5.0	0.1	%	•	5.0			0.00	20	
Duplicate (P0G0202-DUP7)	Sou	rce: 0G01012-	11	Prepared &	: Analyzed:	07/02/20				
% Moisture	4.0	0.1	%		3.0			28.6	20	I
Duplicate (P0G0202-DUP8)	Sou	rce: 0G01013-	06	Prepared &	: Analyzed:	07/02/20				
% Moisture	6.0	0.1	%		4.0			40.0	20	I

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G0202 - *** DEFAULT PREP ***										
Duplicate (P0G0202-DUP9)	Sou	rce: 0G01013	-14	Prepared &	Analyzed:	07/02/20				
% Moisture	8.0	0.1	%		7.0			13.3	20	
Batch P0G0401 - *** DEFAULT PREP ***										
Blank (P0G0401-BLK1)				Prepared &	Analyzed:	07/04/20				
Chloride	ND	1.00	mg/kg wet							
LCS (P0G0401-BS1)				Prepared &	Analyzed:	07/04/20				
Chloride	520	1.00	mg/kg wet	500		104	80-120			
LCS Dup (P0G0401-BSD1)				Prepared &	Analyzed:	07/04/20				
Chloride	530	1.00	mg/kg wet	500		106	80-120	1.92	20	
Calibration Blank (P0G0401-CCB1)				Prepared &	z Analyzed:	07/04/20				
Chloride	0.00		mg/kg wet							
Calibration Check (P0G0401-CCV1)				Prepared &	z Analyzed:	07/04/20				
Chloride	18.8		mg/kg	20.0		94.2	0-200			
Calibration Check (P0G0401-CCV2)				Prepared &	z Analyzed:	07/04/20				
Chloride	18.9		mg/kg	20.0		94.5	0-200			
Calibration Check (P0G0401-CCV3)				Prepared &	. Analyzed:	07/04/20				
Chloride	20.3		mg/kg	20.0		102	0-200			
Matrix Spike (P0G0401-MS1)	Sou	rce: 0G01009	-10	Prepared &	. Analyzed:	07/04/20				
Chloride	2200	5.68	mg/kg dry	568	1560	113	80-120			

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Domout'		Spike	Source		%REC		RPD	
Analyte	Result	Reporting Limit	Units	Spike Level	Result	%REC	%REC Limits	RPD	Limit	Notes
Batch P0G0401 - *** DEFAULT PREP ***										
Matrix Spike (P0G0401-MS2)	Sou	rce: 0G01011	-10	Prepared &	ն Analyzed:	07/04/20				
Chloride	5840	10.4	mg/kg dry	1040	4730	106	80-120			
Matrix Spike Dup (P0G0401-MSD1)	Sou	rce: 0G01009	D-10	Prepared &	k Analyzed:	07/04/20				
Chloride	2110	5.68	mg/kg dry	568	1560	96.4	80-120	4.47	20	
Matrix Spike Dup (P0G0401-MSD2)	Sou	rce: 0G01011	-10	Prepared &	k Analyzed:	07/04/20				
Chloride	5820	10.4	mg/kg dry	1040	4730	104	80-120	0.250	20	
Batch P0G0702 - *** DEFAULT PREP ***										
Blank (P0G0702-BLK1)				Prepared &	k Analyzed:	07/07/20				
Chloride	ND	1.00	mg/kg wet							
LCS (P0G0702-BS1)				Prepared &	ն Analyzed:	07/07/20				
Chloride	397	1.00	mg/kg wet	400		99.2	80-120			
LCS Dup (P0G0702-BSD1)				Prepared &	k Analyzed:	07/07/20				
Chloride	397	1.00	mg/kg wet	400	<u> </u>	99.2	80-120	0.0454	20	
Calibration Blank (P0G0702-CCB1)				Prepared &	k Analyzed:	07/07/20				
Chloride	0.00		mg/kg wet		-					
Calibration Check (P0G0702-CCV1)				Prepared &	k Analyzed:	07/07/20				
Chloride	18.8		mg/kg	20.0		94.1	0-200			
Calibration Check (P0G0702-CCV2)				Prepared &	k Analyzed:	07/07/20				
Chloride	18.9		mg/kg	20.0		94.4	0-200			

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G0702 - *** DEFAULT PREP ***										
Calibration Check (P0G0702-CCV3)				Prepared: (07/07/20 A	nalyzed: 07	/08/20			
Chloride	18.9		mg/kg	20.0		94.6	0-200			
Matrix Spike (P0G0702-MS1)	Sour	ce: 0G01013	-08	Prepared &	: Analyzed:	07/07/20				
Chloride	561	1.14	mg/kg dry	568	29.2	93.6	80-120			
Matrix Spike (P0G0702-MS2)	Sour	ce: 0G02002	-03	Prepared &	: Analyzed:	07/07/20				
Chloride	1680	1.11	mg/kg dry	778	824	110	80-120			
Matrix Spike Dup (P0G0702-MSD1)	Sour	ce: 0G01013	-08	Prepared &	: Analyzed:	07/07/20				
Chloride	556	1.14	mg/kg dry	568	29.2	92.8	80-120	0.806	20	
Matrix Spike Dup (P0G0702-MSD2)	Sour	ce: 0G02002	-03	Prepared &	: Analyzed:	07/07/20				
Chloride	1700	1.11	mg/kg dry	778	824	113	80-120	1.40	20	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G0203 - TX 1005										
Blank (P0G0203-BLK1)				Prepared &	Analyzed:	07/02/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	74.5		"	100		74.5	70-130			
Surrogate: o-Terphenyl	36.5		"	50.0		73.1	70-130			
LCS (P0G0203-BS1)				Prepared &	Analyzed:	07/02/20				
C6-C12	958	25.0	mg/kg wet	1000		95.8	75-125			
>C12-C28	1040	25.0	"	1000		104	75-125			
Surrogate: 1-Chlorooctane	97.3		"	100		97.3	70-130			
Surrogate: o-Terphenyl	37.9		"	50.0		75.9	70-130			
LCS Dup (P0G0203-BSD1)				Prepared &	Analyzed:	07/02/20				
C6-C12	914	25.0	mg/kg wet	1000		91.4	75-125	4.71	20	
>C12-C28	1000	25.0	"	1000		100	75-125	3.38	20	
Surrogate: 1-Chlorooctane	92.9		"	100		92.9	70-130			
Surrogate: o-Terphenyl	36.2		"	50.0		72.4	70-130			
Calibration Check (P0G0203-CCV1)				Prepared &	Analyzed:	07/02/20				
C6-C12	537	25.0	mg/kg wet	500	<u> </u>	107	85-115			
>C12-C28	561	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	95.7		"	100		95.7	70-130			
Surrogate: o-Terphenyl	41.8		"	50.0		83.6	70-130			
Calibration Check (P0G0203-CCV2)				Prepared: (07/02/20 Aı	nalyzed: 07	//03/20			
C6-C12	564	25.0	mg/kg wet	500		113	85-115			
>C12-C28	574	25.0	"	500		115	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	44.2		"	50.0		88.3	70-130			

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G0203 - TX 1005										
Calibration Check (P0G0203-CCV3)				Prepared:	07/02/20 A	nalyzed: 07	7/04/20			
C6-C12	488	25.0	mg/kg wet	500		97.7	85-115			
>C12-C28	552	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	45.2		"	50.0		90.5	70-130			
Matrix Spike (P0G0203-MS1)	Sou	rce: 0G01012	2-01	Prepared:	07/02/20 A	nalyzed: 07	7/04/20			
C6-C12	977	25.3	mg/kg dry	1010	15.9	95.2	75-125			
>C12-C28	1070	25.3	"	1010	367	69.8	75-125			QM-0
Surrogate: 1-Chlorooctane	106		"	101		105	70-130			
Surrogate: o-Terphenyl	45.8		"	50.5		90.6	70-130			
Matrix Spike Dup (P0G0203-MSD1)	Sou	rce: 0G01012	2-01	Prepared:	07/02/20 A	nalyzed: 07	7/04/20			
C6-C12	897	25.3	mg/kg dry	1010	15.9	87.3	75-125	8.67	20	
>C12-C28	1010	25.3	"	1010	367	64.0	75-125	8.68	20	QM-07
Surrogate: 1-Chlorooctane	121		"	101		120	70-130			
Surrogate: o-Terphenyl	43.4		"	50.5		85.9	70-130			
Batch P0G0204 - TX 1005										
Blank (P0G0204-BLK1)				Prepared &	& Analyzed:	07/02/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	99.7		"	100		99.7	70-130			
Surrogate: o-Terphenyl	45.3		"	50.0		90.5	70-130			
LCS (P0G0204-BS1)				Prepared &	& Analyzed:	07/02/20				
C6-C12	812	25.0	mg/kg wet	1000		81.2	75-125			
>C12-C28	903	25.0	"	1000		90.3	75-125			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	41.0		"	50.0		82.1	70-130			

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G0204 - TX 1005										
LCS Dup (P0G0204-BSD1)				Prepared &	k Analyzed:	07/02/20				
C6-C12	817	25.0	mg/kg wet	1000		81.7	75-125	0.627	20	
>C12-C28	905	25.0	"	1000		90.5	75-125	0.150	20	
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	40.6		"	50.0		81.3	70-130			
Calibration Check (P0G0204-CCV1)				Prepared &	k Analyzed:	07/02/20				
C6-C12	486	25.0	mg/kg wet	500		97.1	85-115			
>C12-C28	531	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	44.6		"	50.0		89.1	70-130			
Calibration Check (P0G0204-CCV2)				Prepared &	k Analyzed:	07/02/20				
C6-C12	476	25.0	mg/kg wet	500		95.1	85-115			
>C12-C28	523	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	44.6		"	50.0		89.3	70-130			
Calibration Check (P0G0204-CCV3)				Prepared: (07/02/20 A	nalyzed: 07	/03/20			
C6-C12	511	25.0	mg/kg wet	500		102	85-115			
>C12-C28	556	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	46.7		"	50.0		93.4	70-130			
Matrix Spike (P0G0204-MS1)	Sou	rce: 0G02003	3-01	Prepared &	k Analyzed:	07/02/20				
C6-C12	1030	25.0	mg/kg dry	1000	ND	103	75-125			
>C12-C28	1240	25.0	"	1000	1140	9.85	75-125			QM-
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	52.0		"	50.0		104	70-130			

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch P0G0204 - TX 1005

Matrix Spike Dup (P0G0204-MSD1)	Sourc	e: 0G02003-01	Prepared &	Analyzed:	07/02/20				
C6-C12	1230	25.0 mg/kg dry	1000	ND	123	75-125	17.1	20	
>C12-C28	1230	25.0 "	1000	1140	8.62	75-125	13.2	20	QM-07
Surrogate: 1-Chlorooctane	142	"	100		142	70-130			QM-07
Surrogate: o-Terphenyl	63.2	"	50.0		126	70-130			

Dean Project: Plains Mewbourne Toro Fax:

12600 W County Rd 91 Project Number: PP-2061 Midland TX, 79707 Project Manager: Jeff Kindley

Notes and Definitions

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

ROI Received on Ice

R The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.

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.

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: 7/15/2020

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Jeff Kindley

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Permian Basin Environmental Lab, L.P.

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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 Mewbourne Toro

Project Number: PP-2061 Location: Lea County, NM

Lab Order Number: 0G13010



NELAP/TCEQ # T104704516-17-8

Report Date: 07/15/20

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number:PP-2061Midland TX, 79707Project Manager:Sylwia Reynolds

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NE WALL @ 5'	0G13010-01	Soil	07/13/20 12:40	07-13-2020 16:50
NE WALL @ 7'	0G13010-02	Soil	07/13/20 13:00	07-13-2020 16:50
AH-1 @ 13'	0G13010-03	Soil	07/13/20 11:35	07-13-2020 16:50
AH-2 @ 13'	0G13010-05	Soil	07/13/20 09:45	07-13-2020 16:50

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

NE WALL @ 5' 0G13010-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environment	al Lab,	L.P.				
General Chemistry Parameters by EI	PA / Standard Methods	8							
% Moisture	9.0	0.1	%	1	P0G1501	07/15/20	07/15/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 801	5M							
C6-C12	260	27.5	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M	
>C12-C28	1390	27.5	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M	
>C28-C35	213	27.5	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M	
Surrogate: 1-Chlorooctane		88.0 %	70-13	0	P0G1411	07/14/20	07/14/20	TPH 8015M	
Surrogate: o-Terphenyl		99.5 %	70-13	0	P0G1411	07/14/20	07/14/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1870	27.5	mg/kg dry	1	[CALC]	07/14/20	07/14/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

NE WALL @ 7' 0G13010-02 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EP	A / Standard Method	s						
% Moisture	14.0	0.1	%	1	P0G1501	07/15/20	07/15/20	ASTM D2216
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 801	15M						
C6-C12	ND	29.1	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M
>C12-C28	144	29.1	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M
>C28-C35	34.8	29.1	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M
Surrogate: 1-Chlorooctane		77.9 %	70-130		P0G1411	07/14/20	07/14/20	TPH 8015M
Surrogate: o-Terphenyl		94.0 %	70-130		P0G1411	07/14/20	07/14/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	179	29.1	mg/kg dry	1	[CALC]	07/14/20	07/14/20	calc

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

AH-1 @ 13' 0G13010-03 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

% Moisture	5.0	0.1	%	1	P0G1501	07/15/20	07/15/20	ASTM D2216
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M						
C6-C12	ND	26.3	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M
>C12-C28	226	26.3	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M
>C28-C35	40.3	26.3	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M
Surrogate: 1-Chlorooctane		85.3 %	70-130		P0G1411	07/14/20	07/14/20	TPH 8015M
Surrogate: o-Terphenyl		97.2 %	70-130		P0G1411	07/14/20	07/14/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	267	26.3	mg/kg dry	1	[CALC]	07/14/20	07/14/20	calc

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

AH-2 @ 13' 0G13010-05 (Soil)

									1
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

% Moisture	4.0	0.1	%	1	P0G1501	07/15/20	07/15/20	ASTM D2216
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M						
C6-C12	237	130	mg/kg dry	5	P0G1411	07/14/20	07/14/20	TPH 8015M
>C12-C28	4680	130	mg/kg dry	5	P0G1411	07/14/20	07/14/20	TPH 8015M
>C28-C35	1210	130	mg/kg dry	5	P0G1411	07/14/20	07/14/20	TPH 8015M
Surrogate: 1-Chlorooctane		79.3 %	70-130		P0G1411	07/14/20	07/14/20	TPH 8015M
Surrogate: o-Terphenyl		93.7 %	70-130		P0G1411	07/14/20	07/14/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	6140	130	mg/kg dry	5	[CALC]	07/14/20	07/14/20	calc

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number:PP-2061Midland TX, 79707Project 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 P0G1501 - *** DEFAULT PREP ***										
Blank (P0G1501-BLK1)				Prepared &	Analyzed:	07/15/20				
% Moisture	ND	0.1	%							
Blank (P0G1501-BLK2)				Prepared &	z Analyzed:	07/15/20				
% Moisture	ND	0.1	%							
Blank (P0G1501-BLK3)				Prepared &	z Analyzed:	07/15/20				
% Moisture	ND	0.1	%							
Duplicate (P0G1501-DUP1)	Sour	ce: 0G14002-	04	Prepared &	. Analyzed:	07/15/20				
% Moisture	9.0	0.1	%		10.0			10.5	20	
Duplicate (P0G1501-DUP2)	Sour	ce: 0G14001-	05	Prepared &	Analyzed:	07/15/20				
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P0G1501-DUP3)	Sour	ce: 0G14001-	20	Prepared &	Analyzed:	07/15/20				
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P0G1501-DUP4)	Sour	ce: 0G14003-	10	Prepared &	. Analyzed:	07/15/20				
% Moisture	3.0	0.1	%	-	3.0			0.00	20	
Duplicate (P0G1501-DUP5)	Sour	ce: 0G14005-	02	Prepared &	Analyzed:	07/15/20				
% Moisture	4.0	0.1	%		3.0			28.6	20	R.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G1411 - TX 1005										
Blank (P0G1411-BLK1)				Prepared &	Analyzed:	07/14/20				
C6-C12	ND	25.0	mg/kg wet	1						
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	90.0		"	100		90.0	70-130			
Surrogate: o-Terphenyl	47.4		"	50.0		94.9	70-130			
LCS (P0G1411-BS1)				Prepared &	Analyzed:	07/14/20				
C6-C12	934	25.0	mg/kg wet	1000		93.4	75-125			
>C12-C28	1050	25.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	77.6		"	100		77.6	70-130			
Surrogate: o-Terphenyl	36.8		"	50.0		73.6	70-130			
LCS Dup (P0G1411-BSD1)				Prepared &	Analyzed:	07/14/20				
C6-C12	1010	25.0	mg/kg wet	1000		101	75-125	8.22	20	
>C12-C28	1180	25.0	"	1000		118	75-125	11.4	20	
Surrogate: 1-Chlorooctane	97.6		"	100		97.6	70-130			
Surrogate: o-Terphenyl	41.2		"	50.0		82.3	70-130			
Calibration Check (P0G1411-CCV1)				Prepared &	Analyzed:	07/14/20				
C6-C12	487	25.0	mg/kg wet	500		97.4	85-115			
>C12-C28	519	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	75.7		"	100		75.7	70-130			
Surrogate: o-Terphenyl	37.6		"	50.0		75.2	70-130			
Calibration Check (P0G1411-CCV2)				Prepared &	Analyzed:	07/14/20				
C6-C12	514	25.0	mg/kg wet	500		103	85-115			
>C12-C28	542	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	85.9		"	100		85.9	70-130			
Surrogate: o-Terphenyl	43.5		"	50.0		87.0	70-130			

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0G1411 - TX 1005										
Calibration Check (P0G1411-CCV3)				Prepared:	07/14/20 A	nalyzed: 07	7/15/20			
C6-C12	521	25.0	mg/kg wet	500		104	85-115			
>C12-C28	558	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	88.6		"	100		88.6	70-130			
Surrogate: o-Terphenyl	43.4		"	50.0		86.9	70-130			
Matrix Spike (P0G1411-MS1)	Sou	rce: 0G14001	1-04	Prepared:	07/14/20 A	nalyzed: 07	//15/20			
C6-C12	1150	25.3	mg/kg dry	1010	15.0	112	75-125			
>C12-C28	1250	25.3	"	1010	36.4	120	75-125			
Surrogate: 1-Chlorooctane	106		"	101		105	70-130			
Surrogate: o-Terphenyl	49.9		"	50.5		98.9	70-130			
Matrix Spike Dup (P0G1411-MSD1)	Sou	rce: 0G14001	1-04	Prepared:	07/14/20 A	nalyzed: 07	7/15/20			
C6-C12	1220	25.3	mg/kg dry	1010	15.0	119	75-125	5.91	20	
>C12-C28	1350	25.3	"	1010	36.4	130	75-125	7.87	20	QM-05
Surrogate: 1-Chlorooctane	98.7		"	101		97.7	70-130			
Surrogate: o-Terphenyl	48.3		"	50.5		95.7	70-130			

Dean Project: Plains Mewbourne Toro Fax:

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

Notes and Definitions

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were

within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Drew	Darror			
Report Approved By:			Date:	7/15/2020	

0 00

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.

Dean Project: Plains Mewbourne Toro Fax:

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

Permian Basin Environmental Lab, L.P.

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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 Mewbourne Toro
Project Number: PP-2061
Location: Jal, NM

Lab Order Number: 0G31008



NELAP/TCEQ # T104704516-17-8

Report Date: 08/10/20

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number:PP-2061Midland TX, 79707Project Manager:Sylwia Reynolds

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-2 @ 15'	0G31008-01	Soil	07/30/20 14:45	07-31-2020 14:59
AH-2 @ 14'	0G31008-02	Soil	07/30/20 14:40	07-31-2020 14:59
BH-1 @ 4'	0G31008-03	Soil	07/31/20 10:30	07-31-2020 14:59
BH-1 NSW @ 2'	0G31008-04	Soil	07/31/20 09:40	07-31-2020 14:59
BH-1 ESW @ 2'	0G31008-05	Soil	07/31/20 09:52	07-31-2020 14:59
BH-1 WSW @ 2'	0G31008-06	Soil	07/31/20 09:35	07-31-2020 14:59
BH-1 SSW @ 3'	0G31008-07	Soil	07/31/20 10:35	07-31-2020 14:59
SSW @ 2'	0G31008-08	Soil	07/31/20 09:35	07-31-2020 14:59
SSW @ 8'	0G31008-09	Soil	07/31/20 10:36	07-31-2020 14:59
WSW @ 2'	0G31008-10	Soil	07/31/20 10:15	07-31-2020 14:59

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

AH-2 @ 15' 0G31008-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	nvironmen	tal Lab, I	P.				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		81.4 %	75-1.	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.4 %	75-1.	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by EPA / St	andard Method	ls							
Chloride	63.8	1.09	mg/kg dry	1	P0H0705	08/07/20	08/08/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0H0402	08/04/20	08/04/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80)15M							
C6-C12	ND	27.2	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		84.1 %	70-1.	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-1.	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	08/03/20	08/03/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

AH-2 @ 14' 0G31008-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	Environmen	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.9 %	75-1	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.0 %	75-1	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by EPA / St	andard Method	ls							
Chloride	68.5	1.10	mg/kg dry	1	P0H0705	08/07/20	08/08/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0H0402	08/04/20	08/04/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80)15M							
C6-C12	ND	27.5	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.6 %	70-1	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-1	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	08/03/20	08/03/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

BH-1 @ 4' 0G31008-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		ian Basin E					,		
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.2 %	75-1	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.3 %	75-1	25	Р0Н0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	s							
Chloride	86.1	1.05	mg/kg dry	1	P0H0705	08/07/20	08/08/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0H0402	08/04/20	08/04/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	235 by EPA Method 80	15M							
C6-C12	ND	26.3	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C12-C28	103	26.3	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.3 %	70-1	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-1	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	103	26.3	mg/kg dry	1	[CALC]	08/03/20	08/03/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

BH-1 NSW @ 2' 0G31008-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	Environme	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.4 %	75-1	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.4 %	75-1	25	Р0Н0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
Chloride	145	1.02	mg/kg dry	1	P0H0705	08/07/20	08/08/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0H0402	08/04/20	08/04/20	ASTM D2216	
<u> Total Petroleum Hydrocarbons C6-C35 l</u>	oy EPA Method 80	15M							
C6-C12	ND	25.5	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		86.3 %	70-1	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-1	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	08/03/20	08/03/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

BH-1 ESW @ 2' 0G31008-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	Environmen	tal Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.1 %	75-12	25	Р0Н0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.6 %	75-12	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by EPA / Sta	ndard Method	ds							
Chloride	120	1.03	mg/kg dry	1	P0H0705	08/07/20	08/08/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0H0402	08/04/20	08/04/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by E	PA Method 80)15M							
C6-C12	ND	25.8	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.9 %	70-1.	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-1.	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
3 1 2									

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

BH-1 WSW @ 2' 0G31008-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environme	ntal Lab,	L .P.				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.0 %	75-1	25	Р0Н0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.8 %	75-1	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
Chloride	76.0	1.04	mg/kg dry	1	P0H0705	08/07/20	08/08/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0H0402	08/04/20	08/04/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 l	oy EPA Method 80	15M							
C6-C12	ND	26.0	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.8 %	70-1	30	Р0Н0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-1	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	08/03/20	08/03/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

BH-1 SSW @ 3' 0G31008-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Environmen	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	3.34	0.100	mg/kg dry	100	P0H0302	08/03/20	08/03/20	EPA 8021B	
Toluene	20.3	0.100	mg/kg dry	100	P0H0302	08/03/20	08/03/20	EPA 8021B	
Ethylbenzene	14.3	0.100	mg/kg dry	100	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (p/m)	40.9	0.200	mg/kg dry	100	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (o)	16.1	0.100	mg/kg dry	100	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		69.9 %	75-125		P0H0302	08/03/20	08/03/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		90.5 %	75-1	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Method	S							
Chloride	60.4	1.08	mg/kg dry	1	P0H0803	08/08/20	08/08/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0H0402	08/04/20	08/04/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	2530	134	mg/kg dry	5	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C12-C28	7640	134	mg/kg dry	5	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C28-C35	924	134	mg/kg dry	5	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-1	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		135 %	70-1	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	11100	134	mg/kg dry	5	[CALC]	08/03/20	08/03/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

SSW @ 2' 0G31008-08 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Invironmen	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Toluene	0.00183	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Ethylbenzene	0.00138	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (p/m)	0.00728	0.00200	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (o)	0.00170	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.6 %	75-1	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.6 %	75-1	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	S							
Chloride	64.8	1.02	mg/kg dry	1	P0H0803	08/08/20	08/08/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0H0402	08/04/20	08/04/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	ND	25.5	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C12-C28	41.6	25.5	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-1	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		130 %	70-1	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	41.6	25.5	mg/kg dry	1	[CALC]	08/03/20	08/03/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

SSW @ 8' 0G31008-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin F	Environmen	tal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.9 %	75-12	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.2 %	75-12	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by EPA / S	tandard Method	ls							
Chloride	61.5	1.08	mg/kg dry	1	P0H0803	08/08/20	08/08/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0H0402	08/04/20	08/04/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	15M							
C6-C12	ND	26.9	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-13	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-13	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	08/03/20	08/03/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

WSW @ 2' 0G31008-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	Environme	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.9 %	75-1	25	Р0Н0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.7 %	75-1	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by EPA /	Standard Method	ds							
Chloride	84.7	1.06	mg/kg dry	1	P0H0803	08/08/20	08/08/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0H0402	08/04/20	08/04/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 b	oy EPA Method 80)15M							
C6-C12	ND	26.6	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-1	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-1	30	P0H0306	08/03/20	08/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	08/03/20	08/03/20	calc	

Dean Project: Plains Mewbourne Toro

0.108

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Sylwia Reynolds

Fax:

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

A	D 1:	Reporting	TT 1:	Spike	Source	0/55~	%REC	DDD	RPD	3.7
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0H0302 - General Preparation (GC)										_
Blank (P0H0302-BLK1)				Prepared &	Analyzed:	08/03/20				
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	0.109		"	0.120		90.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.9	75-125			
LCS (P0H0302-BS1)				Prepared &	Analyzed:	08/03/20				
Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.223	0.00200	"	0.200		111	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		93.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.5	75-125			
LCS Dup (P0H0302-BSD1)				Prepared &	Analyzed:	08/03/20				
Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120	5.82	20	
Toluene	0.110	0.00100	"	0.100		110	80-120	4.26	20	
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120	2.70	20	
Xylene (p/m)	0.222	0.00200	"	0.200		111	80-120	0.265	20	
Xylene (o)	0.115	0.00100	"	0.100		115	80-120	0.0524	20	
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.7	75-125			
Calibration Blank (P0H0302-CCB1)				Prepared &	Analyzed:	08/03/20				
Benzene	0.00		mg/kg wet							
Toluene	0.860		"							
Ethylbenzene	0.320		"							
Kylene (p/m)	0.720		"							
Xylene (o)	0.310		"							
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.4	75-125			

Permian Basin Environmental Lab, L.P.

Surrogate: 1,4-Difluorobenzene

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.

90.1

75-125

0.120

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Midland TX, 79707 Troject. Trains wiewbourne is

Project Number: PP-2061

Project Manager: Sylwia Reynolds

Organics by GC - 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 P0H0302 - General Preparation (GC)				D 10	A 1 1	00/02/20				
Calibration Check (P0H0302-CCV1)	0.102	0.00100		Prepared &	Analyzed:		90 120			
Benzene Toluene	0.102 0.0990	0.00100	mg/kg wet	0.100 0.100		102 99.0	80-120 80-120			
Ethylbenzene	0.106	0.00100	,,	0.100		106	80-120			
Xylene (p/m)	0.100	0.00100	,,	0.100		105	80-120			
Xylene (p/iii) Xylene (o)	0.109	0.00200	"	0.200		103	80-120			
		0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.114		,,	0.120		95.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.4	75-125			
Calibration Check (P0H0302-CCV2)				Prepared &	Analyzed:	08/03/20				
Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.0997	0.00100	"	0.100		99.7	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.6	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.3	75-125			
Matrix Spike (P0H0302-MS1)	Sou	ırce: 0G31008	3-01	Prepared &	: Analyzed:	08/03/20				
Benzene	0.0848	0.00100	mg/kg dry	0.109	ND	78.0	80-120			QM-0
Toluene	0.0882	0.00100	"	0.109	ND	81.2	80-120			
Ethylbenzene	0.112	0.00100	"	0.109	ND	103	80-120			
Xylene (p/m)	0.180	0.00200	"	0.217	ND	82.8	80-120			
Xylene (o)	0.0906	0.00100	"	0.109	ND	83.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.130		93.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.130		92.7	75-125			
Matrix Spike Dup (P0H0302-MSD1)	Sou	ırce: 0G31008	3-01	Prepared &	: Analyzed:	08/03/20				
Benzene	0.0924	0.00100	mg/kg dry	0.109	ND	85.0	80-120	8.67	20	
Toluene	0.101	0.00100	"	0.109	ND	92.9	80-120	13.5	20	
Ethylbenzene	0.129	0.00100	"	0.109	ND	118	80-120	13.7	20	
Xylene (p/m)	0.206	0.00200	"	0.217	ND	94.6	80-120	13.2	20	
Xylene (o)	0.102	0.00100	"	0.109	ND	93.9	80-120	12.0	20	
Surrogate: 4-Bromofluorobenzene	0.128		"	0.130		98.3	75-125			
	0.122		"	0.130		93.6	75-125			

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project Manager: Sylwia Reynolds

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0H0402 - *** DEFAULT PREP ***										
Blank (P0H0402-BLK1)				Prepared &	Analyzed:	08/04/20				
% Moisture	ND	0.1	%							
Blank (P0H0402-BLK2)				Prepared &	Analyzed:	08/04/20				
% Moisture	ND	0.1	%							
Blank (P0H0402-BLK3)				Prepared &	Analyzed:	08/04/20				
% Moisture	ND	0.1	%			·	·		·	·
Duplicate (P0H0402-DUP1)	Sou	rce: 0G30014-	01	Prepared &	Analyzed:	08/04/20				
% Moisture	10.0	0.1	%				0.00	20		
Duplicate (P0H0402-DUP2)	Sou	rce: 0G31001-	06	Prepared &	Prepared & Analyzed: 08/04/20					
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P0H0402-DUP3)	Sou	rce: 0G31007-	02	Prepared &	08/04/20					
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P0H0402-DUP4)	Sou	rce: 0G31008-	05	Prepared &	Analyzed:	08/04/20				
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0H0402-DUP5)	Sou	rce: 0H03007-	03	Prepared &	Analyzed:	08/04/20				
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P0H0402-DUP6)	Source: 0H03007-13			Prepared &	Analyzed:	08/04/20				
% Moisture	2.0	0.1	%	2.0				0.00	20	
Duplicate (P0H0402-DUP7)	Source: 0H03011-03			Prepared & Analyzed: 08/04/20						
% Moisture	6.0	0.1	%		6.0			0.00	20	

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

> General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0H0705 - *** DEFAULT PREP ***										
LCS (P0H0705-BS1)				Prepared: (08/07/20 Aı	nalyzed: 08	3/08/20			
Chloride	399	1.00	mg/kg wet	400		99.8	80-120			
LCS Dup (P0H0705-BSD1)				Prepared: (08/07/20 Aı	nalyzed: 08	3/08/20			
Chloride	399	1.00	mg/kg wet	400		99.8	80-120	0.0125	20	
Calibration Check (P0H0705-CCV1)				Prepared: (08/07/20 Aı	nalyzed: 08				
Chloride	20.4		mg/kg	20.0		102	0-200		·	
Calibration Check (P0H0705-CCV2)				Prepared: (08/07/20 Aı	nalyzed: 08				
Chloride	20.4		mg/kg	20.0		102	0-200			
Calibration Check (P0H0705-CCV3)	Prepared: 08/07/20 Analyzed: 08/08/20									
Chloride	19.7		mg/kg	20.0		98.6	0-200			
Matrix Spike (P0H0705-MS1)	Sour	ce: 0G31002	2-02	Prepared: (08/07/20 Aı	nalyzed: 08	3/08/20			
Chloride	16800	54.3	mg/kg dry	5430	11100	105	80-120			
Matrix Spike (P0H0705-MS2)	Sour	ce: 0G31007	7-03	Prepared: (08/07/20 Aı	nalyzed: 08	3/08/20			
Chloride	2320	5.43	mg/kg dry	543	1780	101	80-120			
Matrix Spike Dup (P0H0705-MSD1)	Sour	ce: 0G31002	2-02	Prepared: (08/07/20 Aı	nalyzed: 08	3/08/20			
Chloride	16800	54.3	mg/kg dry	5430	11100	105	80-120	0.0226	20	
Matrix Spike Dup (P0H0705-MSD2)	Sour	ce: 0G31007	7-03	Prepared: (08/07/20 Aı	nalyzed: 08	3/08/20			
Chloride	2380	5.43	mg/kg dry	543	1780	110	80-120	2.27	20	
Batch P0H0803 - *** DEFAULT PREP ***										
LCS (P0H0803-BS1)				Prepared &	& Analyzed:	08/08/20				
Chloride	394	1.00	mg/kg wet	400		98.4	80-120			

12600 W County Rd 91Project Number:PP-2061Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

	·	Reporting		Spike	Source		%REC	·	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0H0803 - *** DEFAULT PREP ***										
LCS Dup (P0H0803-BSD1)				Prepared &	Analyzed:	08/08/20				
Chloride	394	1.00	mg/kg wet	400		98.6	80-120	0.246	20	
Calibration Check (P0H0803-CCV1)				Prepared &	z Analyzed:	08/08/20				
Chloride	20.1		mg/kg	20.0		101	0-200			
Calibration Check (P0H0803-CCV2)				Prepared &	Analyzed:	08/08/20				
Chloride	20.0		mg/kg	20.0		100	0-200			
Calibration Check (P0H0803-CCV3)				Prepared: (08/08/20 Aı	nalyzed: 08	/09/20			
Chloride	19.8		mg/kg	20.0		99.0	0-200			
Matrix Spike (P0H0803-MS1)	Sou	rce: 0G31008	8-07	Prepared &	Analyzed:	08/08/20				
Chloride	667	1.08	mg/kg dry	538	60.4	113	80-120			
Matrix Spike (P0H0803-MS2)	Sou	rce: 0H03007	7-05	Prepared: (08/08/20 Aı	nalyzed: 08	/09/20			
Chloride	8820	26.0	mg/kg dry	2600	5920	111	80-120			
Matrix Spike Dup (P0H0803-MSD1)	Sou	rce: 0G31008	8-07	Prepared &	z Analyzed:	08/08/20				
Chloride	594	1.08	mg/kg dry	538	60.4	99.3	80-120	11.5	20	
Matrix Spike Dup (P0H0803-MSD2)	Sou	rce: 0H03007	7-05	Prepared: (08/08/20 Aı	nalyzed: 08	/09/20			
Chloride	8530	26.0	mg/kg dry	2600	5920	100	80-120	3.37	20	

12600 W County Rd 91 Project Number: PP-2061
Midland TX, 79707 Project Manager: Sylwia Reynolds

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0H0306 - TX 1005										
Blank (P0H0306-BLK1)				Prepared &	Analyzed:	08/03/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	91.7		"	100		91.7	70-130			
Surrogate: o-Terphenyl	50.5		"	50.0		101	70-130			
LCS (P0H0306-BS1)				Prepared &	Analyzed:	08/03/20				
C6-C12	918	25.0	mg/kg wet	1000		91.8	75-125			
>C12-C28	1120	25.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	52.9		"	50.0		106	70-130			
LCS Dup (P0H0306-BSD1)				Prepared &	Analyzed:	08/03/20				
C6-C12	854	25.0	mg/kg wet	1000		85.4	75-125	7.25	20	
>C12-C28	1060	25.0	"	1000		106	75-125	5.15	20	
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	49.8		"	50.0		99.7	70-130			
Calibration Check (P0H0306-CCV1)				Prepared &	Analyzed:	08/03/20				
C6-C12	469	25.0	mg/kg wet	500	•	93.9	85-115			
>C12-C28	535	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	51.2		"	50.0		102	70-130			
Calibration Check (P0H0306-CCV2)				Prepared &	Analyzed:	08/03/20				
C6-C12	485	25.0	mg/kg wet	500		96.9	85-115			
>C12-C28	543	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	51.8		"	50.0		104	70-130			

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

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

Permian Basin Environmental Lab, L.P.

Inits Level Result %REC Limits RPD Limit Notes Prepared: 08/03/20 Analyzed: 08/04/20
Proposed: 08/02/20 Applyred: 08/04/20
Proposed: 09/02/20 Apolyzod: 09/04/20
Fiepared. 06/05/20 Aniaryzed. 06/04/20
kg wet 500 93.0 85-115
" 500 103 85-115
" 100 103 70-130
" 50.0 102 70-130
Prepared: 08/03/20 Analyzed: 08/04/20
kg dry 1030 13.5 101 75-125
" 1030 861 110 75-125
" 103 119 70-130
" 51.5 127 70-130
Prepared: 08/03/20 Analyzed: 08/04/20
kg dry 1030 13.5 101 75-125 0.134 20
" 1030 861 84.3 75-125 26.4 20
" 103 119 70-130
" 51.5 124 70-130
kg " " kg " "

Dean Project: Plains Mewbourne Toro Fax:

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

Notes and Definitions

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

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

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

recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	By Barron		
Report Approved By:	Juli	Date:	8/10/2020

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061
Midland TX, 79707 Project Manager: Sylwia Reynolds

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Permian Basin Environmental Lab, L.P.

Special instructions:

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AB # (lab use only)	ORDER#:	(lab use only)							
EIFLD CODE	# 0351008	- 1	Sampler Signature:	(450)	midland -	Company Address: 1260 WC		Project Manager: Solution Per	CHAIN C
Beginning Depth			Des	133-4203	1179703	य की		ralds	F CUST
Ending Depth Date Sampled				03	703	nd al			CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
Time Sampled			e-mail:	Fax No:) analysk
Field Filtered]				Ì	1		\$ 5	7 Z
Total #. of Containars	L		. .		1	-			
toe HNO ₃ HCI H ₂ SO ₄ NaOH Na ₂ S ₂ O ₃ None Other (Specify) DW-Dainking Water SL-Studge	Preservation & # of Containers	eligation struct	XXXIII WASH					Midfand, Texas 79706	
GW = Groundwater S=Soli/Solid NP=Non-Potable Specify Other TPH: TX 1005 TX 1006 Anions (CL SO4, Alkalinity) BTEX 8021B/5030 or BTEX 826		IOTAL:	Analyze For:	Report Formet: 4 Standard	PO# 30-061	Project Loc: Jal New	Project #: PD-206	Project Name: Meubouy	Phone: 432-886

3/6 Date VOCs Free of Headspace?
Labels in container(s)
Custody seets on container(s) of Factor 222222 AUSH TAT (Pre-Schedule) 24, 49, 72 hrs Standard TAT Released to Imaging: 7/25/2022 12:09:59 PM

ne: 432-686-7235

Criss

Page 22 of 22

bosyn Torc

DAY MEXICO

THRP

■ NPDES

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 Mewbourne Toro

Project Number: PP-2061 Location: Lea County, NM

Lab Order Number: 0I04004



NELAP/TCEQ # T104704516-17-8

Report Date: 09/08/20

12600 W County Rd 91Project Number:PP-2061Midland TX, 79707Project Manager:Sylwia Reynolds

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 SSW @ 3'	0104004-01	Soil	09/03/20 07:19	09-04-2020 10:09
AH-1 SE @ 8'	0104004-02	Soil	09/03/20 12:55	09-04-2020 10:09
AH-1 SE @ 9'	0I04004-03	Soil	09/03/20 12:57	09-04-2020 10:09

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

> BH-1 SSW @ 3' 0I04004-01 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	nian Basin E	Environmen	ıtal Lab, l	L .P.				
BTEX by 8021B									
Benzene	0.0176	0.00101	mg/kg dry	1	P0I0408	09/04/20	09/04/20	EPA 8021B	
Toluene	0.0218	0.00101	mg/kg dry	1	P0I0408	09/04/20	09/04/20	EPA 8021B	
Ethylbenzene	0.00419	0.00101	mg/kg dry	1	P0I0408	09/04/20	09/04/20	EPA 8021B	
Xylene (p/m)	0.00584	0.00202	mg/kg dry	1	P0I0408	09/04/20	09/04/20	EPA 8021B	
Xylene (o)	0.00378	0.00101	mg/kg dry	1	P0I0408	09/04/20	09/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		81.4 %	75-1.	25	P0I0408	09/04/20	09/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.9 %	75-1.	25	P0I0408	09/04/20	09/04/20	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	s							
% Moisture	1.0	0.1	%	1	P0I0802	09/08/20	09/08/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	ND	25.3	mg/kg dry	1	P0I0406	09/04/20	09/04/20	TPH 8015M	
>C12-C28	2100	25.3	mg/kg dry	1	P0I0406	09/04/20	09/04/20	TPH 8015M	
>C28-C35	330	25.3	mg/kg dry	1	P0I0406	09/04/20	09/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-1.	30	P0I0406	09/04/20	09/04/20	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-1.	30	P0I0406	09/04/20	09/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2430	25.3	mg/kg dry	1	[CALC]	09/04/20	09/04/20	calc	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

AH-1 SE @ 8' 0I04004-02 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EF	PA / Standard Method	S						
% Moisture	8.0	0.1	%	1	P0I0802	09/08/20	09/08/20	ASTM D2216
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M						
C6-C12	806	136	mg/kg dry	5	P0I0406	09/04/20	09/04/20	TPH 8015M
>C12-C28	9420	136	mg/kg dry	5	P0I0406	09/04/20	09/04/20	TPH 8015M
>C28-C35	2950	136	mg/kg dry	5	P0I0406	09/04/20	09/04/20	TPH 8015M
Surrogate: 1-Chlorooctane		99.9 %	70-130		P0I0406	09/04/20	09/04/20	TPH 8015M
Surrogate: o-Terphenyl		125 %	70-130		P0I0406	09/04/20	09/04/20	TPH 8015M
Total Petroleum Hydrocarbon	13200	136	mg/kg dry	5	[CALC]	09/04/20	09/04/20	calc

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

AH-1 SE @ 9' 0I04004-03 (Soil)

									I
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EP	A / Standard Methods	S						
% Moisture	9.0	0.1	%	1	P0I0801	09/08/20	09/08/20	ASTM D2216
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 801	5M						
C6-C12	299	137	mg/kg dry	5	P0I0406	09/04/20	09/04/20	TPH 8015M
>C12-C28	4820	137	mg/kg dry	5	P0I0406	09/04/20	09/04/20	TPH 8015M
>C28-C35	1180	137	mg/kg dry	5	P0I0406	09/04/20	09/04/20	TPH 8015M
Surrogate: 1-Chlorooctane		103 %	70-130		P0I0406	09/04/20	09/04/20	TPH 8015M
Surrogate: o-Terphenyl		126 %	70-130		P0I0406	09/04/20	09/04/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	6300	137	mg/kg dry	5	[CALC]	09/04/20	09/04/20	calc

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

Fax:

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD		l
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	

Blank (P0I0408-BLK1)				Prepared & Anal	yzed: 09/04/20				
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	0.105		"	0.120	87.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120	85.5	75-125			
LCS (P0I0408-BS1)				Prepared & Anal	yzed: 09/04/20				
Benzene	0.108	0.00100	mg/kg wet	0.100	108	70-130	<u> </u>		
Toluene	0.102	0.00100	"	0.100	102	70-130			
Ethylbenzene	0.106	0.00100	"	0.100	106	70-130			
Xylene (p/m)	0.215	0.00200	"	0.200	107	70-130			
Xylene (o)	0.108	0.00100	"	0.100	108	70-130			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120	89.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120	85.2	75-125			
LCS Dup (P0I0408-BSD1)				Prepared & Anal	yzed: 09/04/20				
Benzene	0.0962	0.00100	mg/kg wet	0.100	96.2	70-130	11.3	20	
Toluene	0.0890	0.00100	"	0.100	89.0	70-130	13.8	20	
Ethylbenzene	0.101	0.00100	"	0.100	101	70-130	4.32	20	
Xylene (p/m)	0.189	0.00200	"	0.200	94.5	70-130	12.7	20	
Xylene (o)	0.0937	0.00100	"	0.100	93.7	70-130	14.1	20	
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120	89.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.100		"	0.120	83.4	75-125			
Calibration Blank (P0I0408-CCB1)				Prepared & Anal	yzed: 09/04/20				
Benzene	0.00		mg/kg wet						
Toluene	0.680		"						
Ethylbenzene	0.420		"						
Xylene (p/m)	0.650		"						
Xylene (o)	0.00		"						
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120	84.2	75-125			_
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120	84.0	75-125			

Permian Basin Environmental Lab, L.P.

0.107

12600 W County Rd 91 Midland TX, 79707

Project Manager: Sylwia Reynolds

Fax:

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Project Number: PP-2061

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0I0408 - General Preparation (GC)										
Calibration Blank (P0I0408-CCB2)				Prepared &	z Analyzed:	09/04/20				
Dongono	0.00		ma a/lea verat							

Calibration Blank (P0I0408-CCB2)			Prepared & Ana	lyzed: 09/04/20		
Benzene	0.00	mg/kg wet				
Toluene	0.320	"				
Ethylbenzene	0.430	"				
Xylene (p/m)	0.810	"				
Xylene (o)	0.380	"				
Surrogate: 4-Bromofluorobenzene	0.107	"	0.120	89.4	75-125	
Surrogate: 1,4-Difluorobenzene	0.103	"	0.120	85.6	75-125	
Calibration Check (P0I0408-CCV1)			Prepared & Ana	lyzed: 09/04/20		
Benzene	0.102	0.00100 mg/kg wet	0.100	102	80-120	
Toluene	0.0979	0.00100 "	0.100	97.9	80-120	
Ethylbenzene	0.103	0.00100 "	0.100	103	80-120	
Xylene (p/m)	0.205	0.00200 "	0.200	102	80-120	
Xylene (o)	0.106	0.00100 "	0.100	106	80-120	
Surrogate: 4-Bromofluorobenzene	0.101	"	0.120	84.1	75-125	
Surrogate: 1,4-Difluorobenzene	0.108	"	0.120	90.0	75-125	
Calibration Check (P0I0408-CCV2)			Prepared & Ana	lyzed: 09/04/20		
Benzene	0.0958	0.00100 mg/kg wet	0.100	95.8	80-120	
Toluene	0.0887	0.00100 "	0.100	88.7	80-120	
Ethylbenzene	0.0901	0.00100 "	0.100	90.1	80-120	
Xylene (p/m)	0.181	0.00200 "	0.200	90.4	80-120	
Xylene (o)	0.0909	0.00100 "	0.100	90.9	80-120	
Surrogate: 4-Bromofluorobenzene	0.0991	"	0.120	82.6	75-125	
Surrogate: 1,4-Difluorobenzene	0.107	"	0.120	89.0	75-125	
Calibration Check (P0I0408-CCV3)			Prepared & Ana	lyzed: 09/04/20		
Benzene	0.101	0.00100 mg/kg wet	0.100	101	80-120	
Toluene	0.0966	0.00100 "	0.100	96.6	80-120	
Ethylbenzene	0.0995	0.00100 "	0.100	99.5	80-120	
Xylene (p/m)	0.188	0.00200 "	0.200	93.9	80-120	
Xylene (o)	0.0973	0.00100 "	0.100	97.3	80-120	
Surrogate: 4-Bromofluorobenzene	0.0965	"	0.120	80.4	75-125	

Permian Basin Environmental Lab, L.P.

Surrogate: 1,4-Difluorobenzene

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.

89.5

75-125

0.120

20

QM-07

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Midland TX, 79707

Project Number: PP-2061 Project Manager: Sylwia Reynolds

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch P010408 - General Preparation (Ge	C)									
Matrix Spike (P0I0408-MS1)	Sour	ce: 0104004-	-01	Prepared &	& Analyzed:	09/04/20				
Benzene	0.0712	0.00101	mg/kg dry	0.101	0.0176	53.0	80-120			QM-07
Toluene	0.0538	0.00101	"	0.101	0.0218	31.7	80-120			QM-07
Ethylbenzene	0.0475	0.00101	"	0.101	0.00419	42.8	80-120			QM-07
Xylene (p/m)	0.0771	0.00202	"	0.202	0.00584	35.2	80-120			QM-07
Xylene (o)	0.0385	0.00101	"	0.101	0.00378	34.4	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.113		"	0.121		93.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.121		95.9	75-125			
Matrix Spike Dup (P0I0408-MSD1)	Sour	ce: 0104004-	-01	Prepared &	& Analyzed:	09/04/20				
Benzene	0.0757	0.00101	mg/kg dry	0.101	0.0176	57.6	80-120	8.17	20	QM-07
Toluene	0.0583	0.00101	"	0.101	0.0218	36.2	80-120	13.3	20	QM-07
Ethylbenzene	0.0493	0.00101	"	0.101	0.00419	44.7	80-120	4.16	20	QM-07
Xylene (p/m)	0.0776	0.00202	"	0.202	0.00584	35.5	80-120	0.805	20	QM-07

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-2061Midland TX, 79707Project 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 P0I0801 - *** DEFAULT PREP ***										
Blank (P0I0801-BLK1)				Prepared &	t Analyzed:	: 09/08/20				
% Moisture	ND	0.1	%							
Duplicate (P0I0801-DUP1)	Sou	rce: 0104007-0)5	Prepared &	k Analyzed:	: 09/08/20				
% Moisture	6.0	0.1	%		8.0			28.6	20	R.
Duplicate (P0I0801-DUP2)	Sou	rce: 0104008-0)1	Prepared &	k Analyzed:	: 09/08/20				
% Moisture	1.0	0.1	%		1.0			0.00	20	
Batch P0I0802 - *** DEFAULT PREP ***										
Blank (P0I0802-BLK1)				Prepared &	k Analyzed:	: 09/08/20				
% Moisture	ND	0.1	%							
Blank (P0I0802-BLK2)				Prepared &	t Analyzed:	: 09/08/20				
% Moisture	ND	0.1	%							
Blank (P0I0802-BLK3)				Prepared &	k Analyzed:	: 09/08/20				
% Moisture	ND	0.1	%							
Blank (P0I0802-BLK4)				Prepared &	t Analyzed:	: 09/08/20				
% Moisture	ND	0.1	%	*						
Blank (P0I0802-BLK5)				Prepared &	k Analyzed:	: 09/08/20				
% Moisture	ND	0.1	%							
Duplicate (P0I0802-DUP1)	Sou	rce: 0103016-0	05	Prepared &	k Analyzed:	: 09/08/20				
% Moisture	3.0	0.1	%		4.0			28.6	20	R.

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number: PP-2061Midland TX, 79707Project 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 P0I0802 - *** DEFAULT PREP ***										
Duplicate (P0I0802-DUP2)	Sou	rce: 0I03016-1	5	Prepared &	& Analyzed:	: 09/08/20				
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P0I0802-DUP3)	Sou	rce: 0103017-1	1	Prepared &	& Analyzed:	: 09/08/20				
% Moisture	11.0	0.1	%		10.0			9.52	20	
Duplicate (P0I0802-DUP4)	Sou	rce: 0103017-2	1	Prepared &	& Analyzed:	: 09/08/20				
% Moisture	11.0	0.1	%		10.0			9.52	20	
Duplicate (P0I0802-DUP5)	Sou	rce: 0103017-3	6	Prepared &	& Analyzed:	: 09/08/20				
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P0I0802-DUP6)	Sou	rce: 0I04001-0	6	Prepared &	& Analyzed:	: 09/08/20				
% Moisture	14.0	0.1	%		15.0			6.90	20	
Duplicate (P0I0802-DUP7)	Sou	rce: 0104003-0	3	Prepared &	Prepared & Analyzed: 09/08/20					
% Moisture	4.0	0.1	%		10.0			85.7	20	R
Duplicate (P0I0802-DUP8)	Sou	rce: 0104003-0	6	Prepared &	& Analyzed:	: 09/08/20				
% Moisture	16.0	0.1	%	·	16.0			0.00	20	

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0I0406 - TX 1005										
Blank (P0I0406-BLK1)				Prepared &	Analyzed:	09/04/20				
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	57.5		"	50.0		115	70-130			
LCS (P0I0406-BS1)				Prepared &	Analyzed:	09/04/20				
C6-C12	980	25.0	mg/kg wet	1000		98.0	75-125			
>C12-C28	1130	25.0	"	1000		113	75-125			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	57.7		"	50.0		115	70-130			
LCS Dup (P0I0406-BSD1)				Prepared &	Analyzed:	09/04/20				
C6-C12	971	25.0	mg/kg wet	1000		97.1	75-125	0.967	20	
>C12-C28	1150	25.0	"	1000		115	75-125	1.88	20	
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	58.2		"	50.0		116	70-130			
Calibration Check (P0I0406-CCV1)				Prepared &	Analyzed:	09/04/20				
C6-C12	507	25.0	mg/kg wet	500	<u> </u>	101	85-115			
>C12-C28	573	25.0	"	500		115	85-115			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	59.0		"	50.0		118	70-130			
Calibration Check (P0I0406-CCV2)				Prepared &	z Analyzed:	09/04/20				
C6-C12	472	25.0	mg/kg wet	500		94.4	85-115			
>C12-C28	535	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	55.5		"	50.0		111	70-130			

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0I0406 - TX 1005										
Matrix Spike (P0I0406-MS1)	Sourc	e: 0104004	-01	Prepared &	Analyzed:	09/04/20				
C6-C12	954	25.3	mg/kg dry	1010	14.5	93.0	75-125			
>C12-C28	2710	25.3	"	1010	2100	60.1	75-125			QM-07
Surrogate: 1-Chlorooctane	124		"	101		123	70-130			
Surrogate: o-Terphenyl	56.8		"	50.5		113	70-130			
Matrix Spike Dup (P0I0406-MSD1)	Source	e: 0104004	-01	Prepared &	analyzed:	09/04/20				
C6-C12	996	25.3	mg/kg dry	1010	14.5	97.2	75-125	4.38	20	
>C12-C28	2810	25.3	"	1010	2100	70.6	75-125	16.1	20	QM-07
Surrogate: 1-Chlorooctane	107		"	101		106	70-130			
Surrogate: o-Terphenyl	57.3		"	50.5		113	70-130			

Fax: Dean Project: Plains Mewbourne Toro 12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

Notes and Definitions

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

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

recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Sample results reported on a dry weight basis dry

Relative Percent Difference RPD

LCS Laboratory Control Spike

MS Matrix Spike Duplicate Dup

	Drew	Darron			
Report Approved By:			Date:	9/8/2020	

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.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

Permian Basin Environmental Lab, L.P.

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: Mewborne Toro Project Number: PP-2061/SRS#2020-050

Location: Lea County, NM

Lab Order Number: 0I16014



NELAP/TCEQ # T104704516-17-8

Report Date: 09/17/20

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 SSW @ 4'	0I16014-01	Soil	09/16/20 10:15	09-16-2020 15:25

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

BH-1 SSW @ 4' 0I16014-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environmen	tal Lab,	L.P.				
General Chemistry Parameters by EPA	Standard Methods								
% Moisture	6.0	0.1	%	1	P0I1701	09/17/20	09/17/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	oy EPA Method 801	5M							
C6-C12	ND	26.6	mg/kg dry	1	P0I1605	09/16/20	09/17/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0I1605	09/16/20	09/17/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0I1605	09/16/20	09/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-13	30	P011605	09/16/20	09/17/20	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-13	30	P0I1605	09/16/20	09/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	09/16/20	09/17/20	calc	

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0I1701 - *** DEFAULT PREP ***										
Blank (P0I1701-BLK1)				Prepared &	Analyzed:	09/17/20				
% Moisture	ND	0.1	%							
Blank (P0I1701-BLK2)				Prepared &	: Analyzed:	09/17/20				
% Moisture	ND	0.1	%							
Duplicate (P0I1701-DUP1)	Sour	ce: 0I16001-1	0	Prepared &	Analyzed:	09/17/20				
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P0I1701-DUP2)	Sour	ce: 0I16003-3	1	Prepared &	: Analyzed:	09/17/20				
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P0I1701-DUP3)	Sour	ce: 0116005-0	4	Prepared &	: Analyzed:	09/17/20				
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P0I1701-DUP4)	Source: 0I16016-03			Prepared &	: Analyzed:	09/17/20				
% Moisture	5.0	0.1	%		5.0			0.00	20	

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0I1605 - TX 1005										
Blank (P0I1605-BLK1)				Prepared: (09/16/20 Aı	nalyzed: 09	/17/20			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	85.0		"	100		85.0	70-130			
Surrogate: o-Terphenyl	44.2		"	50.0		88.3	70-130			
LCS (P0I1605-BS1)				Prepared: (09/16/20 Aı	nalyzed: 09	/17/20			
C6-C12	944	25.0	mg/kg wet	1000		94.4	75-125			
>C12-C28	990	25.0	"	1000		99.0	75-125			
Surrogate: 1-Chlorooctane	97.5		"	100		97.5	70-130			
Surrogate: o-Terphenyl	45.8		"	50.0		91.7	70-130			
LCS Dup (P0I1605-BSD1)				Prepared: (09/16/20 Aı	nalyzed: 09	/17/20			
C6-C12	949	25.0	mg/kg wet	1000		94.9	75-125	0.505	20	
>C12-C28	1000	25.0	"	1000		100	75-125	1.10	20	
Surrogate: 1-Chlorooctane	98.5		"	100		98.5	70-130			
Surrogate: o-Terphenyl	46.5		"	50.0		93.0	70-130			
Calibration Blank (P0I1605-CCB1)				Prepared: (09/16/20 Aı	nalyzed: 09	/17/20			
C6-C12	16.1		mg/kg wet							
>C12-C28	16.9		"							
Surrogate: 1-Chlorooctane	85.2		"	100		85.2	70-130			
Surrogate: o-Terphenyl	43.8		"	50.0		87.6	70-130			
Calibration Blank (P0I1605-CCB2)				Prepared: (09/16/20 Aı	nalyzed: 09	/17/20			
C6-C12	15.4		mg/kg wet							
>C12-C28	18.2		"							
Surrogate: 1-Chlorooctane	87.3		"	100		87.3	70-130			
Surrogate: o-Terphenyl	45.0		"	50.0		90.1	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch P0I1605 - TX 1005											
Calibration Check (P0I1605-CCV1)	Prepared: 09/16/20 Analyzed: 09/17/20										
C6-C12	481	25.0	mg/kg wet	500		96.2	85-115				
>C12-C28	504	25.0	"	500		101	85-115				
Surrogate: 1-Chlorooctane	91.0		"	100		91.0	70-130				
Surrogate: o-Terphenyl	44.5		"	50.0		89.0	70-130				
Calibration Check (P0I1605-CCV2)				Prepared: (09/16/20 A	nalyzed: 09	/17/20				
C6-C12	481	25.0	mg/kg wet	500		96.2	85-115				
>C12-C28	478	25.0	"	500		95.6	85-115				
Surrogate: 1-Chlorooctane	94.2		"	100		94.2	70-130				
Surrogate: o-Terphenyl	45.1		"	50.0		90.2	70-130				

DeanProject:Plains: Mewborne ToroFax:12600 W County Rd 91Project Number:PP-2061/SRS#2020-050Midland TX, 79707Project Manager:Sylwia Reynolds

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

	By Barron		
Report Approved By:	Juli	Date:	9/17/2020

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

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



Analytical Report Rev. 2

Prepared for:

Jeff Kindley
Dean
12600 W County Rd 91
Midland, TX 79707

Project: Plains Mewbourne Toro

Project Number: PP-21199 Location: Lea County, NM

Lab Order Number: 1J13006



Current Certification

Report Date: 11/24/21

12600 W County Rd 91Project Number:PP-21199Midland TX, 79707Project Manager:Jeff Kindley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH 1(A) @ 5'	1J13006-01	Soil	10/12/21 00:00	10-13-2021 14:30
AH 1 (A) @ 7'	1J13006-02	Soil	10/12/21 00:00	10-13-2021 14:30
AH 1 (A) @ 9'	1J13006-03	Soil	10/12/21 00:00	10-13-2021 14:30
AH 1 (A) @ 11'	1J13006-04	Soil	10/12/21 00:00	10-13-2021 14:30
NE Wall (A) @ 3'	1J13006-05	Soil	10/12/21 00:00	10-13-2021 14:30
NE Wall (A) @ 5'	1J13006-06	Soil	10/12/21 00:00	10-13-2021 14:30
AH 2 (A) @ 7'	1J13006-07	Soil	10/12/21 00:00	10-13-2021 14:30
AH 2 (A) @ 9'	1J13006-08	Soil	10/12/21 00:00	10-13-2021 14:30
AH 1 SE (A) @ 3'	1J13006-09	Soil	10/12/21 00:00	10-13-2021 14:30
AH 1 SE (A) @ 5'	1J13006-10	Soil	10/12/21 00:00	10-13-2021 14:30
AH 1 SE (A) @ 7'	1J13006-11	Soil	10/12/21 00:00	10-13-2021 14:30
AH 1 SE (A) @ 9'	1J13006-12	Soil	10/12/21 00:00	10-13-2021 14:30
AH 1 E (A) @ 3'	1J13006-13	Soil	10/12/21 00:00	10-13-2021 14:30
AH 1 NE (A) @ 5'	1J13006-16	Soil	10/12/21 00:00	10-13-2021 14:30
AH 1 NE (A) @ 7'	1J13006-17	Soil	10/12/21 00:00	10-13-2021 14:30
AH 1 NE (A) @ 9'	1J13006-18	Soil	10/12/21 00:00	10-13-2021 14:30
AH 1 NE (A) @ 11'	1J13006-19	Soil	10/12/21 00:00	10-13-2021 14:30

Per Client request on 11-15-2021, additional TPH analysis were reported for AH-1 SE (A) @ 7' (1J13006-11), AH-1 SE (A) @ 9' (1J13006-12), AH-1 NE (A) @ 7' (1J13006-17), AH-1 NE (A) @ 9' (1J13006-18), AH-1 NE (A) @ 11' (1J13006-19). The revised report is attached below, as well as any corresponding documentation immediately following the report.

Per Client request on 11-18-2021 additional BTEX analysis were reported for AH-1 NE (A) @ 7' (1J13006-02), AH-1 NE (A) @ 9' (1J13006-03), and AH-1 NE (A) @ 11' (1J13006-04). The revised report is attached below, as well as any corresponding documentation immediately following the report.

12600 W County Rd 91Project Number:PP-21199Midland TX, 79707Project Manager:Jeff Kindley

AH 1(A) @ 5' 1J13006-01 (Soil)

Analyte	Limit	Repo		Dil di	D : 1	D 1	A J	Madead	N-4
7 maryte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
General Chemistry Parameters by	EPA / Standa	rd Metl	hods						
Chloride	38.6	1.10	mg/kg dry	1	P1J1805	10/18/21 16:05	10/19/21 08:59	EPA 300.0	
% Moisture	9.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216	
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M						
C6-C12	1810	137	mg/kg dry	5	P1J1508	10/15/21 11:30	10/16/21 19:56	TPH 8015M	
>C12-C28	4870	137	mg/kg dry	5	P1J1508	10/15/21 11:30	10/16/21 19:56	TPH 8015M	
>C28-C35	866	137	mg/kg dry	5	P1J1508	10/15/21 11:30	10/16/21 19:56	TPH 8015M	
Surrogate: 1-Chlorooctane	98	8.0 %	70-130		P1J1508	10/15/21 11:30	10/16/21 19:56	TPH 8015M	
Surrogate: o-Terphenyl	1	03 %	70-130		P1J1508	10/15/21 11:30	10/16/21 19:56	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	7550	137	mg/kg dry	5	[CALC]	10/15/21 11:30	10/16/21 19:56	calc	

12600 W County Rd 91Project Number:PP-21199Midland TX, 79707Project Manager:Jeff Kindley

AH 1(A) @ 5' 1J13006-01RE1 (Soil)

	Lim	it Repor	rting											
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes					
	Permian Basin Environmental Lab, L.P.													
BTEX by 8021B														
Benzene	0.199	0.0549	mg/kg dry	50	P1J1503	10/15/21 09:02	10/18/21 12:32	EPA 8021B						
Toluene	7.80	0.0549	mg/kg dry	50	P1J1503	10/15/21 09:02	10/18/21 12:32	EPA 8021B						
Ethylbenzene	4.33	0.0549	mg/kg dry	50	P1J1503	10/15/21 09:02	10/18/21 12:32	EPA 8021B						
Xylene (p/m)	22.3	0.110	mg/kg dry	50	P1J1503	10/15/21 09:02	10/18/21 12:32	EPA 8021B						
Xylene (o)	13.0	0.0549	mg/kg dry	50	P1J1503	10/15/21 09:02	10/18/21 12:32	EPA 8021B						
Surrogate: 4-Bromofluorobenzene		86.2 %	80-120		P1J1503	10/15/21 09:02	10/18/21 12:32	EPA 8021B						
Surrogate: 1,4-Difluorobenzene		109 %	80-120		P1J1503	10/15/21 09:02	10/18/21 12:32	EPA 8021B						

C6-C35

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

AH 1 (A) @ 7' 1J13006-02 (Soil)

	T: '	D							
A 1	Limit	Repor	•						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		_							
		Po	ermian B	asin Envi	ronmental L	ab, L.P.			
General Chemistry Parameters by I	EPA / Standa	rd Metl	ods						
Chloride	38.3	1.10	mg/kg dry	1	P1J1805	10/18/21 16:05	10/19/21 09:14	EPA 300.0	
% Moisture	9.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216	
Total Petroleum Hydrocarbons C6-0	C35 by EPA	Method	8015M						
C6-C12	1730	137	mg/kg dry	5	P1J1508	10/15/21 11:30	10/16/21 21:02	TPH 8015M	
>C12-C28	3860	137	mg/kg dry	5	P1J1508	10/15/21 11:30	10/16/21 21:02	TPH 8015M	
>C28-C35	600	137	mg/kg dry	5	P1J1508	10/15/21 11:30	10/16/21 21:02	TPH 8015M	
Surrogate: 1-Chlorooctane	9	6.6 %	70-130		P1J1508	10/15/21 11:30	10/16/21 21:02	TPH 8015M	
Surrogate: o-Terphenyl	1	02 %	70-130		P1J1508	10/15/21 11:30	10/16/21 21:02	TPH 8015M	
Total Petroleum Hydrocarbon	6190	137	mg/kg dry	5	[CALC]	10/15/21 11:30	10/16/21 21:02	calc	

12600 W County Rd 91Project Number:PP-21199Midland TX, 79707Project Manager:Jeff Kindley

AH 1 (A) @ 7' 1J13006-02RE1 (Soil)

	Lim	it Repo	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	0.183	0.0549	mg/kg dry	50	P1J1503	10/15/21 09:02	10/18/21 12:53	EPA 8021B	
Toluene	9.56	0.0549	mg/kg dry	50	P1J1503	10/15/21 09:02	10/18/21 12:53	EPA 8021B	
Ethylbenzene	6.56	0.0549	mg/kg dry	50	P1J1503	10/15/21 09:02	10/18/21 12:53	EPA 8021B	
Xylene (p/m)	16.9	0.110	mg/kg dry	50	P1J1503	10/15/21 09:02	10/18/21 12:53	EPA 8021B	
Xylene (o)	14.3	0.0549	mg/kg dry	50	P1J1503	10/15/21 09:02	10/18/21 12:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.5 %	80-120		P1J1503	10/15/21 09:02	10/18/21 12:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	80-120		P1J1503	10/15/21 09:02	10/18/21 12:53	EPA 8021B	

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

AH 1 (A) @ 9' 1J13006-03 (Soil)

	Limit	Reporting						
Analyte	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

General Chemistry Parameters by	EPA / Standa	ard Meth						
% Moisture	12.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M					
C6-C12	2030	284	mg/kg dry	10	P1J1508	10/15/21 11:30	10/16/21 21:24	TPH 8015M
>C12-C28	3560	284	mg/kg dry	10	P1J1508	10/15/21 11:30	10/16/21 21:24	TPH 8015M
>C28-C35	599	284	mg/kg dry	10	P1J1508	10/15/21 11:30	10/16/21 21:24	TPH 8015M
Surrogate: 1-Chlorooctane	9	5.5 %	70-130		P1J1508	10/15/21 11:30	10/16/21 21:24	TPH 8015M
Surrogate: o-Terphenyl		101 %	70-130		P1J1508	10/15/21 11:30	10/16/21 21:24	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	6190	284	mg/kg dry	10	[CALC]	10/15/21 11:30	10/16/21 21:24	calc

12600 W County Rd 91Project Number:PP-21199Midland TX, 79707Project Manager:Jeff Kindley

AH 1 (A) @ 9' 1J13006-03RE1 (Soil)

	Limit	Repor	ting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Pe	ermian Ba	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B						,			
Benzene	1.54	0.0568	mg/kg dry	50	P1J1503	10/15/21 09:02	10/18/21 13:14	EPA 8021B	
Toluene	38.1	0.114	mg/kg dry	100	P1J1503	10/15/21 09:02	10/18/21 15:08	EPA 8021B	
Ethylbenzene	16.0	0.0568	mg/kg dry	50	P1J1503	10/15/21 09:02	10/18/21 13:14	EPA 8021B	
Xylene (p/m)	31.9	0.114	mg/kg dry	50	P1J1503	10/15/21 09:02	10/18/21 13:14	EPA 8021B	
Xylene (o)	10.7	0.0568	mg/kg dry	50	P1J1503	10/15/21 09:02	10/18/21 13:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	8.	3.8 %	80-120		P1J1503	10/15/21 09:02	10/18/21 13:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	9.	4.0 %	80-120		P1J1503	10/15/21 09:02	10/18/21 13:14	EPA 8021B	

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

AH 1 (A) @ 11' 1J13006-04 (Soil)

	Limit	Reporting						
Analyte	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

General Chemistry Parameters by E	EPA / Standa	ard Meth	ods					
% Moisture	10.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216
Total Petroleum Hydrocarbons C6-G	C35 by EPA	Method	8015M					
C6-C12	ND	27.8	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 21:46	TPH 8015M
>C12-C28	77.7	27.8	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 21:46	TPH 8015M
>C28-C35	ND	27.8	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 21:46	TPH 8015M
Surrogate: 1-Chlorooctane	9	2.5 %	70-130		P1J1508	10/15/21 11:30	10/16/21 21:46	TPH 8015M
Surrogate: o-Terphenyl	9	5.7 %	70-130		P1J1508	10/15/21 11:30	10/16/21 21:46	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	77.7	27.8	mg/kg dry	1	[CALC]	10/15/21 11:30	10/16/21 21:46	calc

 ${\it Surrogate: 4-Bromofluor obenzene}$

Dean Project: Plains Mewbourne Toro

107 %

80-120

12600 W County Rd 91Project Number:PP-21199Midland TX, 79707Project Manager:Jeff Kindley

AH 1 (A) @ 11' 1J13006-04RE1 (Soil)

Analyte	Lin Result	nit Repor	rting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes					
	Permian Basin Environmental Lab, L.P.													
BTEX by 8021B														
Benzene	ND	0.00111	mg/kg dry	1	P1J1503	10/15/21 09:02	10/18/21 12:11	EPA 8021B						
Toluene	0.00577	0.00111	mg/kg dry	1	P1J1503	10/15/21 09:02	10/18/21 12:11	EPA 8021B						
Ethylbenzene	0.00142	0.00111	mg/kg dry	1	P1J1503	10/15/21 09:02	10/18/21 12:11	EPA 8021B						
Xylene (p/m)	0.00600	0.00222	mg/kg dry	1	P1J1503	10/15/21 09:02	10/18/21 12:11	EPA 8021B						
Xylene (o)	0.00154	0.00111	mg/kg dry	1	P1J1503	10/15/21 09:02	10/18/21 12:11	EPA 8021B						
Surrogate: 1,4-Difluorobenzene		105 %	80-120		P1J1503	10/15/21 09:02	10/18/21 12:11	EPA 8021B						

P1J1503

10/15/21 09:02

10/18/21 12:11

EPA 8021B

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

NE Wall (A) @ 3' 1J13006-05 (Soil)

	Lim	it Repo	rting						
Analyte	Result	•	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	0.0588	0.00112	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 20:15	EPA 8021B	
Toluene	0.173	0.00112	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 20:15	EPA 8021B	
Ethylbenzene	0.0801	0.00112	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 20:15	EPA 8021B	
Xylene (p/m)	0.229	0.00225	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 20:15	EPA 8021B	
Xylene (o)	0.0762	0.00112	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 20:15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	80-120		P1J1503	10/15/21 09:02	10/15/21 20:15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	•	81.1 %	80-120		P1J1503	10/15/21 09:02	10/15/21 20:15	EPA 8021B	
General Chemistry Parameters by	EPA / Stand	ard Met	hods						
Chloride	9.60	1.12	mg/kg dry	1	P1J1805	10/18/21 16:05	10/19/21 10:00	EPA 300.0	
% Moisture	11.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216	
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M						
C6-C12	107	28.1	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 22:08	TPH 8015M	
>C12-C28	2350	28.1	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 22:08	TPH 8015M	
>C28-C35	492	28.1	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 22:08	TPH 8015M	
Surrogate: 1-Chlorooctane	ļ	93.1 %	70-130		P1J1508	10/15/21 11:30	10/16/21 22:08	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P1J1508	10/15/21 11:30	10/16/21 22:08	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2950	28.1	mg/kg dry	1	[CALC]	10/15/21 11:30	10/16/21 22:08	calc	

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

NE Wall (A) @ 5' 1J13006-06 (Soil)

	Limit	Reporting						
Analyte	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

General Chemistry Parameters by EPA / Standard Methods												
% Moisture	10.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216				
Total Petroleum Hydrocarbons C6-0	C35 by EPA	Method	8015M									
C6-C12	ND	27.8	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 22:30	TPH 8015M				
>C12-C28	304	27.8	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 22:30	TPH 8015M				
>C28-C35	47.6	27.8	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 22:30	TPH 8015M				
Surrogate: 1-Chlorooctane	Ģ	94.3 %	70-130		P1J1508	10/15/21 11:30	10/16/21 22:30	TPH 8015M				
Surrogate: o-Terphenyl	g	77.2 %	70-130		P1J1508	10/15/21 11:30	10/16/21 22:30	TPH 8015M				
Total Petroleum Hydrocarbon C6-C35	351	27.8	mg/kg dry	1	[CALC]	10/15/21 11:30	10/16/21 22:30	calc				

12600 W County Rd 91Project Number:PP-21199Midland TX, 79707Project Manager:Jeff Kindley

AH 2 (A) @ 7' 1J13006-07 (Soil)

	Lim	it Repor	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		Po	ermian Ba	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 20:57	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 20:57	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 20:57	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 20:57	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 20:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	80-120		P1J1503	10/15/21 09:02	10/15/21 20:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	80-120		P1J1503	10/15/21 09:02	10/15/21 20:57	EPA 8021B	
General Chemistry Parameters by	EPA / Stand	ard Metl	nods						
Chloride	56.9	1.12	mg/kg dry	1	P1J1805	10/18/21 16:05	10/19/21 10:30	EPA 300.0	
% Moisture	11.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	ND	28.1	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 22:53	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 22:53	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 22:53	TPH 8015M	
Surrogate: 1-Chlorooctane		94.9 %	70-130		P1J1508	10/15/21 11:30	10/16/21 22:53	TPH 8015M	
Surrogate: o-Terphenyl		97.2 %	70-130		P1J1508	10/15/21 11:30	10/16/21 22:53	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	10/15/21 11:30	10/16/21 22:53	calc	

12600 W County Rd 91Project Number:PP-21199Midland TX, 79707Project Manager:Jeff Kindley

AH 2 (A) @ 9' 1J13006-08 (Soil)

Limit Reporting												
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note			
		P	ermian B	asin Envi	ronmental L	ab, L.P.						
BTEX by 8021B												
Benzene	ND	0.00114	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 21:18	EPA 8021B				
Toluene	ND	0.00114	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 21:18	EPA 8021B				
Ethylbenzene	ND	0.00114	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 21:18	EPA 8021B				
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 21:18	EPA 8021B				
Xylene (o)	ND	0.00114	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 21:18	EPA 8021B				
Surrogate: 1,4-Difluorobenzene		103 %	80-120		P1J1503	10/15/21 09:02	10/15/21 21:18	EPA 8021B	•			
Surrogate: 4-Bromofluorobenzene		104 %	80-120		P1J1503	10/15/21 09:02	10/15/21 21:18	EPA 8021B				
General Chemistry Parameters by	EPA / Stand	lard Metl	hods									
Chloride	67.2	1.14	mg/kg dry	1	P1J1805	10/18/21 16:05	10/19/21 10:45	EPA 300.0				
% Moisture	12.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216				
Total Petroleum Hydrocarbons C6	-C35 by EPA	A Method	8015M									
C6-C12	ND	28.4	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 23:15	TPH 8015M				
>C12-C28	ND	28.4	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 23:15	TPH 8015M				
>C28-C35	ND	28.4	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 23:15	TPH 8015M				
Surrogate: 1-Chlorooctane		94.0 %	70-130		P1J1508	10/15/21 11:30	10/16/21 23:15	TPH 8015M				
Surrogate: o-Terphenyl		97.3 %	70-130		P1J1508	10/15/21 11:30	10/16/21 23:15	TPH 8015M				
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	10/15/21 11:30	10/16/21 23:15	calc				

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

AH 1 SE (A) @ 3' 1J13006-09 (Soil)

A 1.	Limi	t Repo	•						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	0.00337	0.00110	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 21:40	EPA 8021B	
Toluene	0.00932	0.00110	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 21:40	EPA 8021B	
Ethylbenzene	0.0260	0.00110	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 21:40	EPA 8021B	
Xylene (p/m)	0.00417	0.00220	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 21:40	EPA 8021B	
Xylene (o)	0.00333	0.00110	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 21:40	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	80-120		P1J1503	10/15/21 09:02	10/15/21 21:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	7	9.0 %	80-120		P1J1503	10/15/21 09:02	10/15/21 21:40	EPA 8021B	S-G
General Chemistry Parameters by	EPA / Standa	ard Metl	hods						
Chloride	11.0	1.10	mg/kg dry	1	P1J1805	10/18/21 16:05	10/19/21 11:31	EPA 300.0	
% Moisture	9.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	72.7	27.5	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 23:37	TPH 8015M	
>C12-C28	1930	27.5	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 23:37	TPH 8015M	
>C28-C35	352	27.5	mg/kg dry	1	P1J1508	10/15/21 11:30	10/16/21 23:37	TPH 8015M	
Surrogate: 1-Chlorooctane		35.6 %	70-130		P1J1508	10/15/21 11:30	10/16/21 23:37	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P1J1508	10/15/21 11:30	10/16/21 23:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2360	27.5	mg/kg dry	1	[CALC]	10/15/21 11:30	10/16/21 23:37	calc	

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

AH 1 SE (A) @ 5' 1J13006-10 (Soil)

	Limit	Reporting						
Analyte	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

% Moisture	14.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216
Cotal Petroleum Hydrocarbons Co	6-C35 by EPA	Method	8015M					
C6-C12	ND	29.1	mg/kg dry	1	P1J1508	10/15/21 11:30	10/17/21 00:00	TPH 8015M
>C12-C28	266	29.1	mg/kg dry	1	P1J1508	10/15/21 11:30	10/17/21 00:00	TPH 8015M
>C28-C35	55.6	29.1	mg/kg dry	1	P1J1508	10/15/21 11:30	10/17/21 00:00	TPH 8015M
Surrogate: 1-Chlorooctane	1	83.2 %	70-130		P1J1508	10/15/21 11:30	10/17/21 00:00	TPH 8015M
Surrogate: o-Terphenyl		86.8 %	70-130		P1J1508	10/15/21 11:30	10/17/21 00:00	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	321	29.1	mg/kg dry	1	[CALC]	10/15/21 11:30	10/17/21 00:00	calc

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

AH 1 SE (A) @ 7' 1J13006-11 (Soil)

	Limit	Reporting						
Analyte	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

% Moisture	10.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216
/U WIGHTE	10.0	0.1		-				
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M					
C6-C12	ND	27.8	mg/kg dry	1	P1J1508	10/15/21 11:30	10/17/21 00:22	TPH 8015M
>C12-C28	171	27.8	mg/kg dry	1	P1J1508	10/15/21 11:30	10/17/21 00:22	TPH 8015M
>C28-C35	ND	27.8	mg/kg dry	1	P1J1508	10/15/21 11:30	10/17/21 00:22	TPH 8015M
Surrogate: 1-Chlorooctane	Ģ	93.0 %	70-130		P1J1508	10/15/21 11:30	10/17/21 00:22	TPH 8015M
Surrogate: o-Terphenyl	g	96.7 %	70-130		P1J1508	10/15/21 11:30	10/17/21 00:22	TPH 8015M
Total Petroleum Hydrocarbon	171	27.8	mg/kg dry	1	[CALC]	10/15/21 11:30	10/17/21 00:22	calc
C6-C35								

12600 W County Rd 91Project Number:PP-21199Midland TX, 79707Project Manager:Jeff Kindley

AH 1 SE (A) @ 9' 1J13006-12 (Soil)

	Limit	Reporting						
Analyte	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

% Moisture	11.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M					
C6-C12	41.8	28.1	mg/kg dry	1	P1J1509	10/15/21 13:30	10/16/21 11:14	TPH 8015M
>C12-C28	562	28.1	mg/kg dry	1	P1J1509	10/15/21 13:30	10/16/21 11:14	TPH 8015M
>C28-C35	105	28.1	mg/kg dry	1	P1J1509	10/15/21 13:30	10/16/21 11:14	TPH 8015M
Surrogate: 1-Chlorooctane	9	99.1 %	70-130		P1J1509	10/15/21 13:30	10/16/21 11:14	TPH 8015M
Surrogate: o-Terphenyl		108 %	70-130		P1J1509	10/15/21 13:30	10/16/21 11:14	TPH 8015M
Total Petroleum Hydrocarbon	708	28.1	mg/kg dry	1	[CALC]	10/15/21 13:30	10/16/21 11:14	calc
C6-C35								

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

AH 1 E (A) @ 3' 1J13006-13 (Soil)

	Lin	nit Repo	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 23:04	EPA 8021B	
Toluene	0.00167	0.00108	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 23:04	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 23:04	EPA 8021B	
Xylene (p/m)	0.00431	0.00215	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 23:04	EPA 8021B	
Xylene (o)	0.00297	0.00108	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 23:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	80-120		P1J1503	10/15/21 09:02	10/15/21 23:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	80-120		P1J1503	10/15/21 09:02	10/15/21 23:04	EPA 8021B	
General Chemistry Parameters by	EPA / Stand	dard Met	hods						
Chloride	19.9	1.08	mg/kg dry	1	P1J1805	10/18/21 16:05	10/19/21 13:03	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216	
Total Petroleum Hydrocarbons C6	5-C35 by EP	A Method	8015M						
C6-C12	ND	26.9	mg/kg dry	1	P1J1509	10/15/21 13:30	10/16/21 11:37	TPH 8015M	
>C12-C28	180	26.9	mg/kg dry	1	P1J1509	10/15/21 13:30	10/16/21 11:37	TPH 8015M	
>C28-C35	27.6	26.9	mg/kg dry	1	P1J1509	10/15/21 13:30	10/16/21 11:37	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P1J1509	10/15/21 13:30	10/16/21 11:37	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P1J1509	10/15/21 13:30	10/16/21 11:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	208	26.9	mg/kg dry	1	[CALC]	10/15/21 13:30	10/16/21 11:37	calc	

12600 W County Rd 91Project Number:PP-21199Midland TX, 79707Project Manager:Jeff Kindley

AH 1 NE (A) @ 5' 1J13006-16 (Soil)

	Lin	nit Repo	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envir	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00114	mg/kg dry	1	P1J1909	10/19/21 13:55	10/20/21 07:50	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P1J1909	10/19/21 13:55	10/20/21 07:50	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P1J1909	10/19/21 13:55	10/20/21 07:50	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P1J1909	10/19/21 13:55	10/20/21 07:50	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P1J1909	10/19/21 13:55	10/20/21 07:50	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	80-120		P1J1909	10/19/21 13:55	10/20/21 07:50	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	80-120		P1J1909	10/19/21 13:55	10/20/21 07:50	EPA 8021B	
General Chemistry Parameters by	EPA / Stand	lard Metl	nods						
Chloride	64.8	1.14	mg/kg dry	1	P1J1805	10/18/21 16:05	10/19/21 13:49	EPA 300.0	
% Moisture	12.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216	
Total Petroleum Hydrocarbons C6	5-C35 by EPA	A Method	8015M						
C6-C12	ND	28.4	mg/kg dry	1	P1J1509	10/15/21 13:30	10/16/21 12:44	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P1J1509	10/15/21 13:30	10/16/21 12:44	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P1J1509	10/15/21 13:30	10/16/21 12:44	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P1J1509	10/15/21 13:30	10/16/21 12:44	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P1J1509	10/15/21 13:30	10/16/21 12:44	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	10/15/21 13:30	10/16/21 12:44	calc	

Total Petroleum Hydrocarbon

C6-C35

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

3130

30.1

mg/kg dry

AH 1 NE (A) @ 7' 1J13006-17 (Soil)

Analyte	Limit Result	Repoi	rting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Po	ermian Ba	asin Envi	ronmental L	ab, L.P.			
General Chemistry Parameters 	oy EPA / Standa	rd Meth	ıods						
% Moisture	17.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216	
Total Petroleum Hydrocarbons (C6-C35 by EPA	Method	8015M						
C6-C12	36.5	30.1	mg/kg dry	1	P1J1802	10/18/21 12:30	10/19/21 13:13	TPH 8015M	
>C12-C28	2460	30.1	mg/kg dry	1	P1J1802	10/18/21 12:30	10/19/21 13:13	TPH 8015M	
>C28-C35	637	30.1	mg/kg dry	1	P1J1802	10/18/21 12:30	10/19/21 13:13	TPH 8015M	
Surrogate: 1-Chlorooctane	i	100 %	70-130		P1J1802	10/18/21 12:30	10/19/21 13:13	TPH 8015M	
Surrogate: o-Terphenyl	ı	114%	70-130		P1J1802	10/18/21 12:30	10/19/21 13:13	TPH 8015M	

[CALC]

10/18/21 12:30

10/19/21 13:13

calc

12600 W County Rd 91 Project Number: PP-21199 Midland TX, 79707 Project Manager: Jeff Kindley

AH 1 NE (A) @ 9' 1J13006-18 (Soil)

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

General Chemistry Parameters by	General Chemistry Parameters by EPA / Standard Methods											
% Moisture	14.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216				
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M									
C6-C12	336	145	mg/kg dry	5	P1J1802	10/18/21 12:30	10/20/21 15:33	TPH 8015M				
>C12-C28	11300	145	mg/kg dry	5	P1J1802	10/18/21 12:30	10/20/21 15:33	TPH 8015M				
>C28-C35	2590	145	mg/kg dry	5	P1J1802	10/18/21 12:30	10/20/21 15:33	TPH 8015M				
Surrogate: 1-Chlorooctane		103 %	70-130		P1J1802	10/18/21 12:30	10/20/21 15:33	TPH 8015M				
Surrogate: o-Terphenyl		104 %	70-130		P1J1802	10/18/21 12:30	10/20/21 15:33	TPH 8015M				
Total Petroleum Hydrocarbon C6-C35	14200	145	mg/kg dry	5	[CALC]	10/18/21 12:30	10/20/21 15:33	calc				

12600 W County Rd 91 Project Number: PP-21199 Midland TX, 79707 Project Manager: Jeff Kindley

AH 1 NE (A) @ 11' 1J13006-19 (Soil)

	Limit	Reporting									
Analyte	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Parmian Rasin Environmental Lab. L. P.											

General Chemistry Parameters by I	EPA / Standa	ard Meth	ods					
% Moisture	11.0	0.1	%	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M					
C6-C12	101	28.1	mg/kg dry	1	P1J1802	10/18/21 12:30	10/19/21 13:57	TPH 8015M
>C12-C28	2780	28.1	mg/kg dry	1	P1J1802	10/18/21 12:30	10/19/21 13:57	TPH 8015M
>C28-C35	719	28.1	mg/kg dry	1	P1J1802	10/18/21 12:30	10/19/21 13:57	TPH 8015M
Surrogate: 1-Chlorooctane	9	7.5 %	70-130		P1J1802	10/18/21 12:30	10/19/21 13:57	TPH 8015M
Surrogate: o-Terphenyl		104 %	70-130		P1J1802	10/18/21 12:30	10/19/21 13:57	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	3600	28.1	mg/kg dry	1	[CALC]	10/18/21 12:30	10/19/21 13:57	calc

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1J1503 - *** DEFAULT PREP *	**									
Blank (P1J1503-BLK1)				Prepared &	Analyzed:	10/15/21				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	80-120			
LCS (P1J1503-BS1)				Prepared &	Analyzed:	10/15/21				
Benzene	0.0923	0.00100	mg/kg wet	0.100		91.9	70-130			
Toluene	0.0915	0.00100	"	0.100		91.1	70-130			
Ethylbenzene	0.0864	0.00100	"	0.100		86.1	70-130			
Xylene (p/m)	0.175	0.00200	"	0.201		87.2	70-130			
Xylene (o)	0.0915	0.00100	"	0.100		91.2	70-130			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		96.7	80-120			
LCS Dup (P1J1503-BSD1)				Prepared &	Analyzed:	10/15/21				
Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130	11.9	20	
Toluene	0.103	0.00100	"	0.100		103	70-130	12.7	20	
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130	15.5	20	
Xylene (p/m)	0.204	0.00200	"	0.200		102	70-130	15.8	20	
Xylene (o)	0.106	0.00100	"	0.100		106	70-130	15.4	20	
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.1	80-120			
Calibration Blank (P1J1503-CCB1)				Prepared &	z Analyzed:	10/15/21				
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	80-120			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1J1503 - *** DEFAULT PREP ***										
Calibration Blank (P1J1503-CCB2)				Prepared &	k Analyzed:	10/15/21				
Benzene	0.00		mg/kg wet							
Toluene	1.43		"							
Ethylbenzene	0.380		"							
Xylene (p/m)	1.92		"							
Xylene (o)	0.450		"							
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	80-120			
Calibration Blank (P1J1503-CCB3)				Prepared:	10/15/21 A	nalyzed: 10	0/16/21			
Benzene	0.00		mg/kg wet							
Toluene	0.320		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.390		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	80-120			
Calibration Check (P1J1503-CCV1)				Prepared &	k Analyzed:	10/15/21				
Benzene	0.109	0.00100	mg/kg wet	0.100		109	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.207	0.00200	"	0.200		103	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.2	75-125			
Calibration Check (P1J1503-CCV2)				Prepared &	k Analyzed:	10/15/21				
Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-21199Midland TX, 79707Project Manager:Jeff Kindley

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Prepared 10/15/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21 Analyzed 10/16/21											
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Benzene	Batch P1J1503 - *** DEFAULT PREP ***										
Toluene 0,0950 0,0010 " 0,0100 95.0 80-120 1000 95.0 80-120 1000 95.0 80-120 1000 95.0 80-120 1000 95.0 80-120 1000 95.0 80-120 1000 95.0 80-120 1000 95.0 80-120 1000 95.0 80-120 1000 1000 1000 80-120 80-120 1000 1000 1000 1000 80-120 80-120 1000 1000 1000 80-120 80-120 1000 1000 1000 1000 1000 1000 1000	Calibration Check (P1J1503-CCV3)				Prepared: 1	0/15/21 A	nalyzed: 10	/16/21			
Ethylbenzene 0,0921 0,0010 " 0,1000 92.1 80.120	Benzene	0.0936	0.00100	mg/kg wet	0.100		93.6	80-120			
Nylene (pim)	Toluene	0.0950	0.00100	"	0.100		95.0	80-120			
Xylene (o) 0.102 0.0102 " 0.102 9.5 36.125 Surrogate: +Bromofluorobenzene 0.115 " 0.120 99.5 75-125 Surrogate: 1,4-Diffuorobenzene 0.115 " 0.120 99.5 75-125 Benzene 0.0570 0.0010 " Perpard & Azalyzed: 10/15/21 Benzene 0.0584 0.00103 " 0.0773 ND 75.6 80-120 0.0404 Chlubenzene 0.0445 0.00103 " 0.0773 ND 75.6 80-120 0.0404 Sylene (o) 0.0655 0.00103 " 0.0773 ND 75.6 80-120 0.0404 Sylene (o) 0.0655 0.00103 " 0.0773 ND 75.6 80-120 0.0404 Sylene (o) 0.0655 0.00103 " 0.00773 ND 84.8 80-120 0.0404 Sylene (o) 0.0655 0.00103 " 0.0027 10.10 80-120 0.0404 Surrogate: 1,4-Diffuorobenzene 0.0936 " Perpard: 10/15/21 1.01 80-120 10.1 20 Benzene	Ethylbenzene	0.0921	0.00100	"	0.100		92.1	80-120			
Surrogate: 1,4-Diffuorobenzene	Xylene (p/m)	0.193	0.00200	"	0.200		96.3	80-120			
Matrix Spike (P1J1503-MS1) Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 10/15/21 Source: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed: 1J14007-41 Prepared & Analyzed	Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Matrix Spike (PIJI503-MS1) Source: IJI4007-41 Prepared & Analyzed: 10/15/21 Source: IJI4007-41 Prepared & Analyzed: 10/15/21 Source: IJI4007-41 Prepared & Analyzed: 10/15/21 Source: IJI4007-41 Prepared: Model	Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.5	75-125			
Benizene 0.0570 0.00103 mg/kg dry 0.0773 ND 73.8 80-120 QM-0 QM-0 Toluene 0.0584 0.00103 " 0.0773 ND 75.6 80-120 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0 QM-0	Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	75-125			
Toluene	Matrix Spike (P1J1503-MS1)	Sou	rce: 1J14007	-41	Prepared &	: Analyzed:	10/15/21				
Survegate:	Benzene	0.0570	0.00103	mg/kg dry	0.0773	ND	73.8	80-120			QM-07
Survegate: 1,4-Difluorobenzene 0.0909 " 0.0926 " 0.155 ND 77.5 80-120	Toluene	0.0584	0.00103	"	0.0773	ND	75.6	80-120			QM-07
Nylene (p)	Ethylbenzene	0.0445	0.00103	"	0.0773	ND	57.6	80-120			QM-07
Surrogate: 1,4-Diffuorobenzene 0.0909 " 0.0927 98.0 80-120	Xylene (p/m)	0.120	0.00206	"	0.155	ND	77.5	80-120			QM-07
Surrogate: 1,4-Bromofiluorobenzene 0.0936 " 0.0927 101 80-120	Xylene (o)	0.0655	0.00103	"	0.0773	ND	84.8	80-120			
Matrix Spike Dup (PIJ1503-MSD1) Source: 1J14007-41 Prepared: 10/15/21 Analyzed: 10/16/21	Surrogate: 1,4-Difluorobenzene	0.0909		"	0.0927		98.0	80-120			
Benzene 0.0751 0.00103 mg/kg dry 0.0917 ND 81.9 80-120 10.4 20 Toluene 0.0771 0.00103 " 0.0917 ND 84.1 80-120 10.7 20 Ethylbenzene 0.0584 0.00103 " 0.0917 ND 63.7 80-120 10.1 20 QM-0 Xylene (p/m) 0.156 0.00206 " 0.183 ND 85.1 80-120 9.33 20 Xylene (o) 0.0861 0.00103 " 0.0917 ND 93.9 80-120 10.1 20 Surrogate: 4-Bromofluorobenzene 0.113 " 0.110 102 80-120 Surrogate: 4,4-Difluorobenzene 0.108 " 0.110 98.1 80-120 Batch P1J1909 - *** DEFAULT PREP *** Blank (P1J1909-BLK1) Prepared: 10/19/21 Analyzed: 10/20/21 Benzene ND 0.00100 mg/kg wet Toluene ND 0.00100 " Ethylbenzene ND 0.00100 " Xylene (p/m) ND 0.00200 " Xylene (o) ND 0.00100 " Xylene (o) ND 0.00100 " Xylene (o) ND 0.00100 " Xylene (o) ND 0.00100 " Xylene (o) ND 0.00100 " Xylene (o) ND 0.00100 " Xylene (o) ND 0.00100 " Xylene (o) ND 0.00100 "	Surrogate: 4-Bromofluorobenzene	0.0936		"	0.0927		101	80-120			
Toluene 0.0771 0.00103 " 0.0917 ND 84.1 80-120 10.7 20 Ethylbenzene 0.0584 0.00103 " 0.0917 ND 63.7 80-120 10.1 20 QM-0 Xylene (p/m) 0.156 0.00206 " 0.183 ND 85.1 80-120 9.33 20 Xylene (o) 0.0861 0.00103 " 0.0917 ND 93.9 80-120 10.1 20 Surrogate: 4-Bromofluorobenzene 0.113 " 0.110 102 80-120 Surrogate: 1,4-Difluorobenzene 0.108 " 0.110 98.1 80-120 Surrogate: 1,4-Difluorobenzene ND 0.00100 mg/kg wet Toluene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130	Matrix Spike Dup (P1J1503-MSD1)	Sou	rce: 1J14007	-41	Prepared: 1	0/15/21 A	nalyzed: 10	/16/21			
Ethylbenzene 0.0584 0.00103 " 0.0917 ND 63.7 80-120 10.1 20 QM-0 Xylene (p/m) 0.156 0.00206 " 0.183 ND 85.1 80-120 9.33 20 Xylene (p/m) 0.0861 0.00103 " 0.0917 ND 93.9 80-120 10.1 20 Surrogate: 4-Bromofluorobenzene 0.113 " 0.110 102 80-120 Surrogate: 1,4-Difluorobenzene 0.108 " 0.110 98.1 80-120 Surrogate: 1,4-Difluorobenzene ND 0.00100 mg/kg wet Toluene ND 0.00100 " Surrogate: ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene ND 0.00100 " Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.130 Surrogate: 1,4-Difluorobenzene 0.	Benzene	0.0751	0.00103	mg/kg dry	0.0917	ND	81.9	80-120	10.4	20	
No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	Toluene	0.0771	0.00103	"	0.0917	ND	84.1	80-120	10.7	20	
Xylene (o) 0.0861 0.00103 " 0.0917 ND 93.9 80-120 10.1 20 Surrogate: 4-Bromofluorobenzene 0.113 " 0.110 102 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 80-120 <td>Ethylbenzene</td> <td>0.0584</td> <td>0.00103</td> <td>"</td> <td>0.0917</td> <td>ND</td> <td>63.7</td> <td>80-120</td> <td>10.1</td> <td>20</td> <td>QM-07</td>	Ethylbenzene	0.0584	0.00103	"	0.0917	ND	63.7	80-120	10.1	20	QM-07
Surrogate: 4-Bromofluorobenzene 0.113 " 0.110 102 80-120	Xylene (p/m)	0.156	0.00206	"	0.183	ND	85.1	80-120	9.33	20	
Surrogate: 1,4-Difluorobenzene 0.115 0.110 102 50-120	Xylene (o)	0.0861	0.00103	"	0.0917	ND	93.9	80-120	10.1	20	
Batch P1J1909 - *** DEFAULT PREP *** Blank (P1J1909-BLK1)	Surrogate: 4-Bromofluorobenzene	0.113		"	0.110		102	80-120			
Prepared: 10/19/21 Analyzed: 10/20/21	Surrogate: 1,4-Difluorobenzene	0.108		"	0.110		98.1	80-120			
ND	Batch P1J1909 - *** DEFAULT PREP ***										
Toluene ND 0.00100 " Ethylbenzene ND 0.00100 " Xylene (p/m) ND 0.00200 " Xylene (o) ND 0.00100 " Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120	Blank (P1J1909-BLK1)				Prepared: 1	0/19/21 A	nalyzed: 10	/20/21			
Ethylbenzene ND 0.00100 " Xylene (p/m) ND 0.00200 " Xylene (o) ND 0.00100 " Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120	Benzene	ND	0.00100	mg/kg wet			-				
Entrydedictie ND 0.00100 Xylene (p/m) ND 0.00200 " Xylene (o) ND 0.00100 " Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120	Toluene	ND	0.00100	"							
Xylene (o) ND 0.00100 " Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120	Ethylbenzene	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene 0.130 " 0.120 108 80-120	Xylene (p/m)	ND	0.00200	"							
Surrogate. 1,4-Dijitatrovenzene 0.130 0.120 100 00-120	Xylene (o)	ND	0.00100	"							
	Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108	80-120			
	Surrogate: 4-Bromofluorobenzene			"							S-GC

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-21199Midland TX, 79707Project Manager:Jeff Kindley

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1J1909 - *** DEFAULT PREP ***										
LCS (P1J1909-BS1)				Prepared &	Analyzed:	10/19/21				
Benzene	0.0998	0.00100	mg/kg wet	0.100		99.8	70-130			
Toluene	0.0981	0.00100	"	0.100		98.1	70-130			
Ethylbenzene	0.0929	0.00100	"	0.100		92.9	70-130			
Xylene (p/m)	0.189	0.00200	"	0.200		94.3	70-130			
Xylene (o)	0.0976	0.00100	"	0.100		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		96.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.3	80-120			
Calibration Blank (P1J1909-CCB1)				Prepared &	Analyzed:	10/19/21				
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	80-120			
Calibration Blank (P1J1909-CCB2)				Prepared: 1	0/19/21 Ar	nalyzed: 10	/20/21			
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	80-120			
Calibration Check (P1J1909-CCV1)				Prepared &	Analyzed:	10/19/21				
Benzene	0.0973	0.00100	mg/kg wet	0.100		97.3	80-120			
Toluene	0.0940	0.00100	"	0.100		94.0	80-120			
Ethylbenzene	0.0948	0.00100	"	0.100		94.8	80-120			
Xylene (p/m)	0.190	0.00200	"	0.200		95.1	80-120			
Xylene (o)	0.0975	0.00100	"	0.100		97.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.5	75-125			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-21199Midland TX, 79707Project Manager:Jeff Kindley

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1J1909 - *** DEFAULT PREP ***										
Calibration Check (P1J1909-CCV2)				Prepared: 1	10/19/21 A	nalyzed: 10	/20/21			
Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.201	0.00200	"	0.200		101	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		97.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.9	75-125			
Calibration Check (P1J1909-CCV3)				Prepared: 1	10/19/21 A	nalyzed: 10	/20/21			
Benzene	0.109	0.00100	mg/kg wet	0.100		109	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.6	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.7	75-125			
Matrix Spike (P1J1909-MS1)	Sou	rce: 1J19003	-01	Prepared: 1	10/19/21 A	nalyzed: 10	/20/21			
Benzene	0.0831	0.00111	mg/kg dry	0.111	ND	74.8	80-120			QM-07
Toluene	0.0785	0.00111	"	0.111	ND	70.7	80-120			QM-07
Ethylbenzene	0.0734	0.00111	"	0.111	ND	66.0	80-120			QM-07
Xylene (p/m)	0.153	0.00222	"	0.222	ND	69.0	80-120			QM-0
Xylene (o)	0.0789	0.00111	"	0.111	ND	71.0	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.136		"	0.133		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.133		"	0.133		99.9	80-120			
Matrix Spike Dup (P1J1909-MSD1)	Sou	rce: 1J19003	-01	Prepared: 1	10/19/21 A	nalyzed: 10	/20/21			
Benzene	0.0906	0.00111	mg/kg dry	0.111	ND	81.5	80-120	8.60	20	
Toluene	0.0870	0.00111	"	0.111	ND	78.3	80-120	10.3	20	QM-0
Ethylbenzene	0.0810	0.00111	"	0.111	ND	72.9	80-120	9.92	20	QM-07
Xylene (p/m)	0.166	0.00222	"	0.222	ND	74.8	80-120	8.09	20	QM-0
Xylene (o)	0.0869	0.00111	"	0.111	ND	78.2	80-120	9.66	20	QM-0
Surrogate: 4-Bromofluorobenzene	0.135		"	0.133		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.133		"	0.133		99.6	80-120			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

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 P1J1504 - *** DEFAULT PREP ***										
Blank (P1J1504-BLK1)				Prepared &	Analyzed:	10/15/21				
% Moisture	ND	0.1	%							
Blank (P1J1504-BLK2)				Prepared &	Analyzed:	10/15/21				
% Moisture	ND	0.1	%							
Blank (P1J1504-BLK3)				Prepared &	Analyzed:	10/15/21				
% Moisture	ND	0.1	%							
Blank (P1J1504-BLK4)				Prepared &	Analyzed:	10/15/21				
% Moisture	ND	0.1	%							
Duplicate (P1J1504-DUP1)	Sour	ce: 1J13006-0	5	Prepared &	Analyzed:	10/15/21				
% Moisture	12.0	0.1	%		11.0			8.70	20	
Duplicate (P1J1504-DUP2)	Sour	ce: 1J13006-1	5	Prepared &	Analyzed:	10/15/21				
% Moisture	10.0	0.1	%		9.0			10.5	20	
Duplicate (P1J1504-DUP3)	Sour	ce: 1J13009-1	0	Prepared &	Analyzed:	10/15/21				
% Moisture	14.0	0.1	%	•	14.0			0.00	20	
Duplicate (P1J1504-DUP4)	Soui	ce: 1J14001-0	3	Prepared &	Analyzed:	10/15/21				
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P1J1504-DUP5)	Sour	ce: 1J14005-1	1	Prepared &	Analyzed:	10/15/21				
% Moisture	9.0	0.1	%		10.0			10.5	20	
Duplicate (P1J1504-DUP6)	Soui	ce: 1J14005-2	1	Prepared &	Analyzed:	10/15/21				
% Moisture	11.0	0.1	%	1	10.0	· · · · · · · · · · · · · · · · · · ·		9.52	20	

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1J1805 - *** DEFAULT PREP ***										
Blank (P1J1805-BLK1)				Prepared: 1	10/18/21 Aı	nalyzed: 10	/19/21			
Chloride	ND	1.00	mg/kg wet							
LCS (P1J1805-BS1)				Prepared: 1	10/18/21 Ar	nalyzed: 10	/19/21			
Chloride	412	1.00	mg/kg wet	404		102	90-110			
LCS Dup (P1J1805-BSD1)				Prepared: 1	10/18/21 Ar	nalyzed: 10	/19/21			
Chloride	412	1.00	mg/kg wet	404		102	90-110	0.0196	10	
Calibration Blank (P1J1805-CCB1)				Prepared &	Analyzed:	10/18/21				
Chloride	0.00		mg/kg wet							
Calibration Blank (P1J1805-CCB2)				Prepared: 1	10/18/21 At	nalyzed: 10	/19/21			
Chloride	-0.188		mg/kg wet							
Calibration Check (P1J1805-CCV1)				Prepared &	Analyzed:	10/18/21				
Chloride	20.4		mg/kg	20.0		102	90-110			
Calibration Check (P1J1805-CCV2)				Prepared: 1	10/18/21 Aı	nalyzed: 10	/19/21			
Chloride	19.1		mg/kg	20.0		95.5	90-110			
Calibration Check (P1J1805-CCV3)				Prepared: 1	10/18/21 Ar	nalyzed: 10	/19/21			
Chloride	18.3		mg/kg	20.0		91.4	90-110			·
Matrix Spike (P1J1805-MS1)	Sou	rce: 1J13005	-02	Prepared: 1	10/18/21 Ar	nalyzed: 10	/19/21			
Chloride	3970	26.6	mg/kg dry	2710	1230	101	80-120			
Matrix Spike (P1J1805-MS2)	Sou	rce: 1J13006	-09	Prepared: 1	10/18/21 Ar	nalyzed: 10	/19/21			
Chloride	529	1.10	mg/kg dry	555	11.0	93.4	80-120			

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting	Spike	Source		%REC		RPD	
Analyte	Result	Limit Unit	s Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1J1805 - *** DEFAULT PREP ***									
Matrix Spike Dup (P1J1805-MSD1)	Sourc	e: 1J13005-02	Prepared:	10/18/21 A	Analyzed: 10	/19/21			
Chloride	4180	26.6 mg/kg	dry 2610	1230	113	80-120	5.08	20	
Matrix Spike Dup (P1J1805-MSD2)	Sourc	e: 1J13006-09	Prepared:	10/18/21 A	Analyzed: 10	/19/21			
Chloride	1060	1.10 mg/kg	dry 1070	11.0	98.5	80-120	67.0	20	QM-07

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

	D 1:	Reporting	TT '	Spike	Source	N/DEG	%REC	DDD	RPD	N
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1J1508 - TX 1005										
Blank (P1J1508-BLK1)				Prepared:	10/15/21 Aı	nalyzed: 10	/16/21			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	96.8		"	100		96.8	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		99.9	70-130			
LCS (P1J1508-BS1)				Prepared: 1	10/15/21 Aı	nalyzed: 10	/16/21			
C6-C12	983	25.0	mg/kg wet	1000		98.3	75-125			
>C12-C28	979	25.0	"	1000		97.9	75-125			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	54.2		"	50.0		108	70-130			
LCS Dup (P1J1508-BSD1)				Prepared: 1	10/15/21 Aı	nalyzed: 10	/16/21			
C6-C12	975	25.0	mg/kg wet	1000		97.5	75-125	0.805	20	
>C12-C28	959	25.0	"	1000		95.9	75-125	2.04	20	
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	51.6		"	50.0		103	70-130			
Calibration Check (P1J1508-CCV1)				Prepared:	10/15/21 Ar	nalyzed: 10	/16/21			
C6-C12	461	25.0	mg/kg wet	500		92.3	85-115			
>C12-C28	505	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	54.2		"	50.0		108	70-130			
Calibration Check (P1J1508-CCV2)				Prepared: 1	10/15/21 Aı	nalyzed: 10	/16/21			
C6-C12	444	25.0	mg/kg wet	500		88.8	85-115			
>C12-C28	466	25.0	"	500		93.1	85-115			
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl										

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1J1508 - TX 1005										
Calibration Check (P1J1508-CCV3)				Prepared:	10/15/21 A	nalyzed: 10	/17/21			
C6-C12	447	25.0	mg/kg wet	500		89.4	85-115			
>C12-C28	495	25.0	"	500		99.0	85-115			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			,
Surrogate: o-Terphenyl	53.4		"	50.0		107	70-130			
Matrix Spike (P1J1508-MS1)	Sou	rce: 1J13006	-11	Prepared:	10/15/21 A	nalyzed: 10	/17/21			
C6-C12	841	27.8	mg/kg dry	1110	21.2	73.8	75-125			QM-0
>C12-C28	911	27.8	"	1110	171	66.6	75-125			QM-0
Surrogate: 1-Chlorooctane	122		"	111		110	70-130			
Surrogate: o-Terphenyl	44.1		"	55.6		79.3	70-130			
Matrix Spike Dup (P1J1508-MSD1)	Sou	rce: 1J13006	-11	Prepared:	10/15/21 A	nalyzed: 10	/17/21			
C6-C12	841	27.8	mg/kg dry	1110	21.2	73.7	75-125	0.0896	20	QM-0
>C12-C28	913	27.8	"	1110	171	66.7	75-125	0.142	20	QM-0
Surrogate: 1-Chlorooctane	124		"	111		112	70-130			
Surrogate: o-Terphenyl	46.7		"	55.6		84.0	70-130			
Batch P1J1509 - TX 1005										
Blank (P1J1509-BLK1)				Prepared:	10/15/21 A	nalyzed: 10	/16/21			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	93.0		"	100		93.0	70-130			
Surrogate: o-Terphenyl	50.7		"	50.0		101	70-130			
LCS (P1J1509-BS1)				Prepared:	10/15/21 A	nalyzed: 10	/16/21			
C6-C12	1170	25.0	mg/kg wet	1000		117	75-125			
>C12-C28	984	25.0	"	1000		98.4	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	58.7		"	50.0		117	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1J1509 - TX 1005										
LCS Dup (P1J1509-BSD1)				Prepared:	10/15/21 A	nalyzed: 10	/16/21			
C6-C12	1130	25.0	mg/kg wet	1000		113	75-125	2.84	20	
>C12-C28	933	25.0	"	1000		93.3	75-125	5.29	20	
Surrogate: 1-Chlorooctane	97.2		"	100		97.2	70-130			
Surrogate: o-Terphenyl	55.8		"	50.0		112	70-130			
Calibration Check (P1J1509-CCV1)				Prepared:	10/15/21 A	nalyzed: 10	/16/21			
C6-C12	510	25.0	mg/kg wet	500		102	85-115			
>C12-C28	474	25.0	"	500		94.8	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	53.1		"	50.0		106	70-130			
Calibration Check (P1J1509-CCV2)				Prepared:	10/15/21 A	nalyzed: 10	/16/21			
C6-C12	500	25.0	mg/kg wet	500		99.9	85-115			
>C12-C28	462	25.0	"	500		92.5	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	52.3		"	50.0		105	70-130			
Calibration Check (P1J1509-CCV3)				Prepared:	10/15/21 A	nalyzed: 10	/16/21			
C6-C12	538	25.0	mg/kg wet	500		108	85-115			
>C12-C28	501	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	55.5		"	50.0		111	70-130			
Matrix Spike (P1J1509-MS1)	Sou	rce: 1J13005	-01	Prepared:	10/15/21 A	nalyzed: 10	/16/21			
C6-C12	1000	26.0	mg/kg dry	1040	40.2	91.9	75-125			
>C12-C28	872	26.0	"	1040	1320	NR	75-125			QM-0
Surrogate: 1-Chlorooctane	116		"	104		111	70-130			
Surrogate: o-Terphenyl	49.1		"	52.2		94.0	70-130			

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch P1J1509 - TX 1005											
Matrix Spike Dup (P1J1509-MSD1)	Sour	rce: 1J13005	-01	Prepared:	10/15/21 A	nalyzed: 10	/16/21				
C6-C12	1000	26.0	mg/kg dry	1050	40.2	91.8	75-125	0.135	20		
>C12-C28	875	26.0	"	1050	1320	NR	75-125	NR	20	QM-05	
Surrogate: 1-Chlorooctane	116		"	105		111	70-130				
Surrogate: o-Terphenyl	46.5		"	52.3		89.0	70-130				
Batch P1J1802 - TX 1005											
Blank (P1J1802-BLK1)				Prepared:	10/18/21 A	nalyzed: 10	/19/21				
C6-C12	ND	25.0	mg/kg wet								
>C12-C28	ND	25.0	"								
>C28-C35	ND	25.0	"								
Surrogate: 1-Chlorooctane	112		"	100		112	70-130				
Surrogate: o-Terphenyl	56.9		"	50.0		114	70-130				
LCS (P1J1802-BS1)				Prepared:	10/18/21 A	nalyzed: 10					
C6-C12	997	25.0	mg/kg wet	1000		99.7	75-125				
>C12-C28	1020	25.0	"	1000		102	75-125				
Surrogate: 1-Chlorooctane	112		"	100		112	70-130				
Surrogate: o-Terphenyl	59.8		"	50.0		120	70-130				
LCS Dup (P1J1802-BSD1)				Prepared:	10/18/21 A	nalyzed: 10	/19/21				
C6-C12	1020	25.0	mg/kg wet	1000		102	75-125	1.92	20		
>C12-C28	989	25.0	"	1000		98.9	75-125	2.86	20		
Surrogate: 1-Chlorooctane	112		"	100		112	70-130				
Surrogate: o-Terphenyl	58.9		"	50.0		118	70-130				
Calibration Check (P1J1802-CCV1)				Prepared:	10/18/21 A	nalyzed: 10	/19/21				
C6-C12	432	25.0	mg/kg wet	500		86.4	85-115				
>C12-C28	457	25.0	"	500		91.4	85-115				
Surrogate: 1-Chlorooctane	106		"	100		106	70-130				
Surrogate: o-Terphenyl	56.4		"	50.0		113	70-130				

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1J1802 - TX 1005										
Calibration Check (P1J1802-CCV2)	Prepared: 10/18/21 Analyzed: 10/19/21									
C6-C12	437	25.0	mg/kg wet	500		87.5	85-115			
>C12-C28	429	25.0	"	500		85.7	85-115			
Surrogate: 1-Chlorooctane	127		"	100		127	70-130			
Surrogate: o-Terphenyl	57.4		"	50.0		115	70-130			
Matrix Spike (P1J1802-MS1)	Sour	rce: 1J18003	-01	Prepared:	10/18/21 A	nalyzed: 10	/19/21			
C6-C12	1050	26.0	mg/kg dry	1040	18.8	99.9	75-125			
>C12-C28	1320	26.0	"	1040	183	109	75-125			
Surrogate: 1-Chlorooctane	119		"	104		115	70-130			
Surrogate: o-Terphenyl	58.0		"	51.9		112	70-130			
Matrix Spike Dup (P1J1802-MSD1)	Sou	rce: 1J18003	-01	Prepared:	/19/21					
C6-C12	1040	26.0	mg/kg dry	1040	18.8	98.2	75-125	1.65	20	
>C12-C28	1230	26.0	"	1040	183	100	75-125	8.59	20	
Surrogate: 1-Chlorooctane	117		"	104		112	70-130			
Surrogate: o-Terphenyl	60.6		"	52.1		116	70-130			

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

Notes and Definitions

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

ROI Received on Ice

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

recovery.

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.

NPBEL CO Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

B Analyte is found in the associated blank as well as in the sample (CLP B-flag).

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

	Dren	Darror		
Report Approved By:			_ Date:	11/24/2021

D AR

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number: PP-21199Midland TX, 79707Project Manager: Jeff Kindley

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.

Relinquished by:	7	Relinquished by: [Date Date	Special instructions: * if Benzene is > or = to 10 ppm or total BTEX is > = 50 ppm, then run next deeper sample. If TPH Dro/Gro is >= 1000 ppm or Total TPH is >= 2,500 deeper sample. If Chlorides are >= 10,000 ppm, then run next deeper sample	(O AH-1 SE (A) @ 5'		8 AH-2 (A) @ 9'	7 AH-2 (A) @ 7'	6 NE Wall (A) @ 5'	S NE Wall (A) @ 3'	4 AH-1 (A) @ 11'	ろ AH-1 (A) @ 9'	2 AH-1 (A) @ 7'	AH-1 (A) @ 5'	LAB#(lab.use only)	order # 10 13000	(lab use only)	Sampler Signature: Chelsie Forsan	Telephone No: 432-230-0920	City/State/Zip: Midland TX 79707	Company Address: 12800 WCR 91	Company Name Dean	Project Manager: Jeff Kindley	
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Chebsie Forsan
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(A) @ 9' 9' 10/12/21
(A) @ 9' 9' 10/12/21 1 x Soil * (A) @ 3' 3' 3' 10/12/21 1 x Soil x (A) @ 5' 5' 5' 10/12/21 1 x Soil * (A) @ 5' 5' 5' 10/12/21 1 x Soil * (A) @ 5' 5' 5' 10/12/21 1 x Soil * (A) @ 7' 7' 7' 10/12/21 1 x Soil * (A) @ 9' 9' 10/12/21 1 x Soil * (A) @ 11' 11' 10/12/21 1 x Soil * (A) @ 11' 11' 10/12/21 1 x Soil * (A) @ 11' 11' 10/12/21 1 x Soil * (A) @ 11' 11' 10/12/21 1 x Soil * (A) @ 11' 11' 10/12/21 1 x Soil * (A) @ 11' 11' 10/12/21 1 x Soil * (B) [Soil and an an an an an an an an an an an an an
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(A) @ 7' 7' 7' 10/12/21 1 x Soil * E(A) @ 5' 5' 5' 10/12/21 1 x Soil x E(A) @ 7' 7' 7' 10/12/21 1 x Soil * E(A) @ 9' 9' 10/12/21 1 x Soil * (A) @ 11' 11' 10/12/21 1 x Soil * * (A) @ 11' 11' 10/12/21 1 x Soil * * (A) @ 11' 11' 10/12/21 1 x Soil * * (A) @ 11' 11' 10/12/21 1 x Soil * * (A) @ 11' 11' 10/12/21 1 x Soil * * (A) @ 11' 11' 10/12/21 1 x Soil * * (A) @ 11' 11' 10/12/21 1 x Soil * * (A) @ 11' 11' 10/12/21 1 x Soil * * (A) @ 11' 11' 10/12/21 1 x Soil * * (A) @ 11' 11' 10/12/21 1 x So
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(A) @ 11' 11' 10/12/21 1 1 x Soil * (A) @ 11' 11' 10/12/21 1 1 x Soil * total BTEX is >= 50 ppm, then run next deeper sample. If TPH Dro/Gro is >= 1000 ppm or Total TPH is >= 2,500 ppm then run next = 10,000 ppm, then run next deeper sample Date Time Received by: Date Time Date Time Date Time Date Date Time Date Date Time Date Date Time Date Date Time Date Date Date Date Time Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date Date
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total BTEX is >= 50 ppm, then run next deeper sample. If TPH Dro/Gro is >= 1000 ppm or Total TPH is >= 2,500 ppm then run next = 10,000 ppm, then run next deeper sample Date
per sample. If TPH Dro/Gro is >= 1000 ppm or Total TPH is >= 2,500 ppm then run next Received by: Date Time
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DOC #: PBEL_REV_SUBMISSION REVISION #: PBEL 2021 1 **REVISION Date: 10/29/2021**

EFFECTIVE DATE: 10/29/2021

REVISION/SUBMISSION FORM

Please fill in the required fields below with any requested revisions. In the event that there are multiple workorders or projects to be amended each workorder or project MUST have a separate form filled out entirely. An amended COC must be submitted in addition to the Revision/Submission Form in order for the amendments to be processed. Amended COC's do not replace the requirement of this form. If a revision is required due to errors or omissions on our part this form is still required for the necessary Non-Conformance documentation. Rerun requests will incur additional charges.

Client: Plains

Membourne Toro PP-21199 Project:

hab order 1] 13006

Revision Request:

Nood to Report Following TPH Rosults

Lib Songlo 11 (AH-1 SE(A) e 7') Lab Songli 18 (AH-1 NE (A) e 9')

Lab Songli 12 (AH-1 SE (A) e 9') Lab Songli 19 (AH-1 NE (A) e 11')

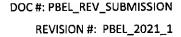
Lab Songli 17 (AH-1 NE (A) e 7') Lab Songli 19 (AH-1 NE (A) e 11')

Submitted by (Name and Date): Work November 15, 2021

PBEL_REV_SUBMISSION_2021_1.DOC

Page 1 of 1

Received by OCD: 7/18/2022 2:01:29 PM



REVISION Date: 10/29/2021 EFFECTIVE DATE: 10/29/2021

REVISION/SUBMISSION FORM

Please fill in the required fields below with any requested revisions. In the event that there are multiple workorders or projects to be amended each workorder or project MUST have a separate form filled out entirely. An amended COC must be submitted in addition to the Revision/Submission Form in order for the amendments to be processed. Amended COC's do not replace the requirement of this form. If a revision is required due to errors or omissions on our part this form is still required for the necessary Non-Conformance documentation. Rerun requests will incur additional charges.

Client: Plains M

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Project: Newboune 700 pp- 21199 LAB ORDER 1J 13006

Revision Request:

Lab 02 AH-1 NE (A) 7/
Lab 03 AH-1 NE (A) 9/
Lab 04 AH-1 NE (A) 11

Submitted by (Name and Date): The Know November 18, 2021

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 Mewbourne Toro

Project Number: PP-2061 Location: Lea County, NM

Lab Order Number: 0F26020



Current Certification

Report Date: 07/17/20

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number:PP-2061Midland TX, 79707Project Manager:Sylwia Reynolds

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC-1	0F26020-01	Soil	06/25/20 15:15	06-26-2020 13:00

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: <a href="https://www.tceq.texas.gov/assets/public/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compliance/compli

NORM analysis were subcontracted to ARS International, Port Allen LA. Their report is attached to the email due to incompatability issues with our LIMS.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number:PP-2061Midland TX, 79707Project Manager:Sylwia Reynolds

WC-1 0F26020-01 (Soil)

Analyte	Result	Reporting Limit Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Perr	nian Basi	n Environme	ntal Lab, L.P.			
General Chemistry Paramete	rs by EPA / S	Standard Method	ls					
Chloride	86.4	1.06 mg/kg dry	1	P0F3003	06/30/20 14:41	07/01/20 16:11	EPA 300.0	
Reactive Cyanide	ND	100 mg/kg	1	P0G1001	07/08/20 14:15	07/08/20 14:15	SW846 9010B	SUB-13
Ignitability by Flashpoint	> 212	°F	1	P0G1001	07/06/20 14:00	07/06/20 14:00	ASTM D93-80	SUB-13
pН	7.80	0.10 pH Units	1	P0G1001	07/08/20 14:18	07/08/20 14:18	EPA 9045B	SUB-13
% Moisture	6.0	0.1 %	1	P0F2701	06/27/20 10:22	06/29/20 09:44	ASTM D2216	
Reactive Sulfide	ND	100 mg/kg	1	P0G1001	07/08/20 13:10	07/08/20 13:10	SW846 9030B	SUB-13
Naturally Occuring Radioacti	ive Material	(N.O.R.M.)						
Radium 226	ND	2.05 pCi/g	1	P0G1704	07/02/20 12:34	07/10/20 11:57	EPA 901.1	SUB12
Radium 228	0.43	0.26 pCi/g	1	P0G1704	07/02/20 12:34	07/10/20 11:57	EPA 901.1	SUB12
Lead 210	ND	1.72 pCi/g	1	P0G1704	07/02/20 12:34	07/10/20 11:57	EPA 901.1	SUB12
Total Gamma	10.0	pCi/g	1	P0G1704	07/02/20 12:34	07/10/20 11:57	EPA 901.1	SUB12
Lead 210 Analysis Error	1.15	+/- 2 Sigma	ı 1	P0G1704	07/02/20 12:34	07/10/20 11:57	EPA 901.1	SUB12
Radium 226 Analysis Error	1.14	+/- 2 Sigma	ı 1	P0G1704	07/02/20 12:34	07/10/20 11:57	EPA 901.1	SUB12
Radium 228 Analysis Error	0.24	+/- 2 Sigma	ı 1	P0G1704	07/02/20 12:34	07/10/20 11:57	EPA 901.1	SUB12
TCLP Metals 1311 by EPA / S	tandard Me	thods						
Mercury	ND	0.000200 mg/L	1	P0G1001	07/02/20 14:00	07/06/20 17:05	EPA 7470A	SUB-13
Chromium	ND	0.0500 mg/L	1	P0G1001	07/02/20 14:00	07/06/20 15:24	EPA 6020A	SUB-13
Arsenic	ND	0.0500 mg/L	1	P0G1001	07/02/20 14:00	07/06/20 15:24	EPA 6020A	SUB-13
Selenium	ND	0.0500 mg/L	1	P0G1001	07/02/20 14:00	07/06/20 15:24	EPA 6020A	SUB-13
Silver	ND	0.0500 mg/L	1	P0G1001	07/02/20 14:00	07/06/20 15:24	EPA 6020A	SUB-13
Cadmium	ND	0.0500 mg/L	1	P0G1001	07/02/20 14:00	07/06/20 15:24	EPA 6020A	SUB-13
Barium	0.823	0.200 mg/L	1	P0G1001	07/02/20 14:00	07/06/20 15:24	EPA 6020A	SUB-13
Lead	ND	0.0500 mg/L	1	P0G1001	07/02/20 14:00	07/06/20 15:24	EPA 6020A	SUB-13

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

WC-1 0F26020-01 (Soil)

		Reporting							
Analyte	Result		Jnits	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Perm	ian Basi	n Environme	ntal Lab, L.P.			
TCLP Volatile Organic Comp	ounds by El	PA Method	1 1311/82	260B					
Benzene	ND	100	ug/l	1	P0G1001	07/02/20 07:00	07/07/20 17:34	EPA 8260B	SUB-13
Total Petroleum Hydrocarbon	ns C6-C35 b	y EPA Met	thod 801	5M					
C6-C12	2590	133 m	ıg/kg dry	5	P0F3004	06/30/20 15:42	06/30/20 18:32	TPH 8015M	
>C12-C28	7640	133 m	g/kg dry	5	P0F3004	06/30/20 15:42	06/30/20 18:32	TPH 8015M	
>C28-C35	826	133 m	ıg/kg dry	5	P0F3004	06/30/20 15:42	06/30/20 18:32	TPH 8015M	
Surrogate: 1-Chlorooctane		97.8 %	70-1.	30	P0F3004	06/30/20 15:42	06/30/20 18:32	TPH 8015M	
Surrogate: o-Terphenyl		96.5 %	70-1.	30	P0F3004	06/30/20 15:42	06/30/20 18:32	TPH 8015M	
Total Petroleum	11100	133 m	g/kg dry	5	[CALC]	06/30/20 15:42	06/30/20 18:32	calc	
Hydrocarbon C6-C35									
Physical Parameters by APH.	A/ASTM/EP	A Method	S						
Free Liquid	PASS		N/A	1	P0G1001	06/29/20 08:00	06/29/20 08:15	EPA 9095	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91Project Number:PP-2061Midland TX, 79707Project 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 P0F2701 - *** DEFAULT PREP ***										
Blank (P0F2701-BLK1)				Prepared: (06/27/20 A	nalyzed: 06	/29/20			
% Moisture	ND	0.1	%							
Duplicate (P0F2701-DUP1)	Sou	rce: 0F26003-	14	Prepared: (06/27/20 A	nalyzed: 06	/29/20			
% Moisture	ND	0.1	%		ND				20	
Duplicate (P0F2701-DUP2)	Sou	rce: 0F26010-	11	Prepared: (06/27/20 A	nalyzed: 06	/29/20			
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P0F2701-DUP3)	Sou	rce: 0F26010-	38	Prepared: (06/27/20 A	nalyzed: 06	/29/20			
% Moisture	3.0	0.1	%	•	3.0	•		0.00	20	
Duplicate (P0F2701-DUP4)	Sou	rce: 0F26015-	11	Prepared: (06/27/20 A	nalyzed: 06	/29/20			
% Moisture	ND	0.1	%		ND				20	
Batch P0F3003 - *** DEFAULT PREP ***										
Blank (P0F3003-BLK1)				Prepared: (06/30/20 A	nalyzed: 07	/01/20			
Chloride	ND	1.00	mg/kg wet							
LCS (P0F3003-BS1)				Prepared: (06/30/20 A	nalyzed: 07	/01/20			
Chloride	411	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P0F3003-BSD1)				Prepared: (06/30/20 A	nalyzed: 07	/01/20			
Chloride	407	1.00	mg/kg wet	400		102	80-120	0.851	20	
Calibration Check (P0F3003-CCV1)				Prepared: (06/30/20 A	nalyzed: 07	/01/20			
Chloride	19.4		mg/kg	20.0		97.0	0-200			

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061
Midland TX, 79707 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 P0F3003 - *** DEFAULT PREP ***										
Calibration Check (P0F3003-CCV2)				Prepared: (06/30/20 A	analyzed: 07	7/01/20			
Chloride	18.7		mg/kg	20.0		93.3	0-200			
Matrix Spike (P0F3003-MS1)	Sou	rce: 0F26018	-07	Prepared: (06/30/20 A	Analyzed: 07	7/01/20			
Chloride	521	1.04	mg/kg dry	521	22.6	95.7	80-120			
Matrix Spike (P0F3003-MS2)	Sou	rce: 0F26022	-03	Prepared: (06/30/20 A	analyzed: 07	7/01/20			
Chloride	5040	11.4	mg/kg dry	1140	3540	132	80-120			QM-0:
Matrix Spike Dup (P0F3003-MSD1)	Sou	rce: 0F26018	-07	Prepared: (06/30/20 A	Analyzed: 07	7/01/20			
Chloride	499	1.04	mg/kg dry	521	22.6	91.4	80-120	4.43	20	
Matrix Spike Dup (P0F3003-MSD2)	Sou	rce: 0F26022	-03	Prepared: (06/30/20 A	Analyzed: 07	7/01/20			
Chloride	4900	11.4	mg/kg dry	1140	3540	119	80-120	2.80	20	

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Batch P0F3004 - TX 1005			Reporting		Spike	Source		%REC		RPD	
Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/20 Prepared & Analyzed: 06/30/2	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
ND	Batch P0F3004 - TX 1005										
ND 25.0 "	Blank (P0F3004-BLK1)				Prepared &	Analyzed:	06/30/20				
ND 25.0 "	C6-C12	ND	25.0	mg/kg wet							
Surrogate: 1-Chlorooctane 79.5 " 100	>C12-C28	ND	25.0	"							
Surrogate: o-Terphenyl 38.7 " 50.0 77.5 70-130	>C28-C35	ND	25.0	"							
LCS (P0F3004-BS1) Prepared & Analyzed: 06/30/20	Surrogate: 1-Chlorooctane	79.5		"	100		79.5	70-130			
25.0 mg/kg wet 1000 99.3 75-125 1000 106 75-125 1000 106 75-125 1000 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106 106	Surrogate: o-Terphenyl	38.7		"	50.0		77.5	70-130			
1000 100 75-125 1000 100 75-125 1000 100 75-125 1000 1000 100 75-125 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 100	LCS (P0F3004-BS1)				Prepared &	analyzed:	06/30/20				
Surrogate: I-Chlorooctane	C6-C12	993	25.0	mg/kg wet	1000		99.3	75-125			
Surrogate: o-Terphenyl 40.7 50.0 81.3 70-130	>C12-C28	1060	25.0	"	1000		106	75-125			
Prepared & Analyzed: 06/30/20	Surrogate: 1-Chlorooctane	97.1		"	100		97.1	70-130			
C6-C12	Surrogate: o-Terphenyl	40.7		"	50.0		81.3	70-130			
Surrogate: 1-Chlorooctane 100 25.0 " 1000 110 75-125 3.79 20	LCS Dup (P0F3004-BSD1)				Prepared &	analyzed:	06/30/20				
Surrogate: 1-Chlorooctane 101	C6-C12	1050	25.0	mg/kg wet	1000		105	75-125	5.33	20	
Surrogate: 0-Terphenyl	>C12-C28	1100	25.0	"	1000		110	75-125	3.79	20	
Prepared & Analyzed: 06/30/20	Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6 mg/kg wet 10.6	Surrogate: o-Terphenyl	41.9		"	50.0		83.7	70-130			
Surrogate: I-Chlorooctane	Calibration Blank (P0F3004-CCB1)				Prepared &	Analyzed:	06/30/20				
Surrogate: I-Chlorooctane	C6-C12	10.6		mg/kg wet							
Surrogate: 1-Chlorooctane Surrogate: 0-Terphenyl 41.5 " 50.0 82.9 70-130	>C12-C28	19.4		"							
Calibration Blank (P0F3004-CCB2) Prepared & Analyzed: 06/30/20 C6-C12 12.2 mg/kg wet >C12-C28 22.5 " Surrogate: 1-Chlorooctane 91.7 " 100 91.7 70-130	Surrogate: 1-Chlorooctane	85.2		"	100		85.2	70-130			
C6-C12 12.2 mg/kg wet > C12-C28 22.5 " Surrogate: 1-Chlorooctane 91.7 " 100 91.7 70-130	Surrogate: o-Terphenyl	41.5		"	50.0		82.9	70-130			
>C12-C28 22.5 " Surrogate: 1-Chlorooctane 91.7 " 100 91.7 70-130	Calibration Blank (P0F3004-CCB2)				Prepared &	Analyzed:	06/30/20				
Surrogate: 1-Chlorooctane 91.7 " 100 91.7 70-130	C6-C12	12.2		mg/kg wet							
Surrogate. 1-Chioroociane 91.7 100 91.7 /0-130	>C12-C28	22.5		"							
Surrogate: o-Terphenyl 44.1 " 50.0 88.3 70-130	Surrogate: 1-Chlorooctane	91.7		"	100		91.7	70-130			
	Surrogate: o-Terphenyl	44.1		"	50.0		88.3	70-130			

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061

Midland TX, 79707 Project Manager: Sylwia Reynolds

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F3004 - TX 1005										
Calibration Check (P0F3004-CCV1)				Prepared &	ն Analyzed:	06/30/20				
C6-C12	535	25.0	mg/kg wet	500		107	85-115			
>C12-C28	559	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	95.4		"	100		95.4	70-130			
Surrogate: o-Terphenyl	40.3		"	50.0		80.7	70-130			
Calibration Check (P0F3004-CCV2)				Prepared &	ն Analyzed:	06/30/20				
C6-C12	549	25.0	mg/kg wet	500		110	85-115			
>C12-C28	565	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	99.5		"	100		99.5	70-130			
Surrogate: o-Terphenyl	42.2		"	50.0		84.3	70-130			
Calibration Check (P0F3004-CCV3)				Prepared: (06/30/20 A	nalyzed: 07	//01/20			
C6-C12	549	25.0	mg/kg wet	500		110	85-115			
>C12-C28	555	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	42.7		"	50.0		85.3	70-130			
Matrix Spike (P0F3004-MS1)	Sour	ce: 0F30004	-01	Prepared: (06/30/20 A	nalyzed: 07	//01/20			
C6-C12	1530	129	mg/kg dry	1030	205	129	75-125			QM-0:
>C12-C28	5730	129	"	1030	5060	64.7	75-125			QM-0:
Surrogate: 1-Chlorooctane	122		"	103		118	70-130			
Surrogate: o-Terphenyl	53.8		"	51.5		104	70-130			
Matrix Spike Dup (P0F3004-MSD1)	Sour	ce: 0F30004	-01	Prepared: (06/30/20 A	nalyzed: 07	//01/20			
C6-C12	1550	129	mg/kg dry	1030	205	131	75-125	1.53	20	QM-0:
>C12-C28	5370	129	"	1030	5060	29.9	75-125	73.6	20	QM-0:
Surrogate: 1-Chlorooctane	128		"	103		124	70-130			
Surrogate: o-Terphenyl	58.0		"	51.5		113	70-130			

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro Fax:
12600 W County Rd 91 Project Number: PP-2061

Project Manager: Sylwia Reynolds

Notes and Definitions

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

SUB12 Analysis was subcontracted to ARS Port Allen Lousiana.

ROI Received on Ice

Midland TX, 79707

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

	Drew	Darron		
Report Approved By:			Date:	7/17/2020

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

Dean Project: Plains Mewbourne Toro

12600 W County Rd 91 Project Number: PP-2061
Midland TX, 79707 Project Manager: Sylwia Reynolds

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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Received: Adjusted:	by Sampler/Client Rep. ? by Courier? UPS 1 Temperatury Upon Receipt:	Custody seals on container(s) Custody seals on container(s) Custody seals on contests Sample Hand Delivered	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?	┝	╁╌	-	-	-	-	-	B	╀		TON 8015 M &		_		171	. ‡* 	ř.	*			
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10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887

July 08, 2020

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

Work Order: **HS20070019**

Laboratory Results for: 0F26020-1

Dear Brent Barron,

ALS Environmental received 1 sample(s) on Jul 01, 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,

Generated By: COREY.GRANDITS

Andy C. Neir

Client: Permian Basin Environmental Lab, LP

Project: 0F26020-1 SAMPLE SUMMARY

Work Order: HS20070019

Lab Samp ID Client Sample ID Matrix TagNo Collection Date Date Received Hold

HS20070019-01 0F26020-1 Solid 25-Jun-2020 15:15 01-Jul-2020 09:40

Client: Permian Basin Environmental Lab, LP CASE NARRATIVE

Project: 0F26020-1 **Work Order:** HS20070019

GCMS Volatiles by Method SW8260

Batch ID: 155044

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

Metals by Method SW7470

Batch ID: 155166

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

Metals by Method SW1311/6020

Batch ID: 155093

• 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: R364724

• 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: R364726

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

WetChemistry by Method SW9045D

Batch ID: R364721

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

WetChemistry by Method ASTM D92-12b

Batch ID: R364548

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

Client: Permian Basin Environmental Lab, LP

WorkOrder:HS20070019 Lab ID:HS20070019-01

ANALYTICAL REPORT

 Project:
 0F26020-1

 Sample ID:
 0F26020-1

 Collection Date:
 25-Jun-2020 15:15

Matrix:Solid

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES		Method:SW8260	Leache:SW1311 / 02-Jul-2020	Prep:SW1311 /	02-Jul-2020	Analyst: PC
Benzene	ND		0.10	mg/L	20	04-Jul-2020 22:10
Surr: 1,2-Dichloroethane-d4	92.3		70-126	%REC	20	04-Jul-2020 22:10
Surr: 4-Bromofluorobenzene	95.7		82-124	%REC	20	04-Jul-2020 22:10
Surr: Dibromofluoromethane	99.1		77-123	%REC	20	04-Jul-2020 22:10
Surr: Toluene-d8	96.8		82-127	%REC	20	04-Jul-2020 22:10
TCLP METALS BY SW6020A	N	Method:SW1311/6020	Leache:SW1311 / 02-Jul-2020	Prep:SW3010A	/ 02-Jul-2020	Analyst: JHD
Arsenic	ND		0.0500	mg/L	1	06-Jul-2020 15:24
Barium	0.823		0.200	mg/L	1	06-Jul-2020 15:24
Cadmium	ND		0.0500	mg/L	1	06-Jul-2020 15:24
Chromium	ND		0.0500	mg/L	1	06-Jul-2020 15:24
Lead	ND		0.0500	mg/L	1	06-Jul-2020 15:24
Selenium	ND		0.0500	mg/L	1	06-Jul-2020 15:24
Silver	ND		0.0500	mg/L	1	06-Jul-2020 15:24
TCLP MERCURY BY SW7470A		Method:SW7470	Leache:SW1311 / 02-Jul-2020	Prep:SW7470 /	06-Jul-2020	Analyst: FO
Mercury	ND		0.000200	mg/L	1	06-Jul-2020 17:05
FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B	I M	ethod:ASTM D92-12b				Analyst: TH
Flash Point	> 212	n	50.0	°F	1	06-Jul-2020 14:00
REACTIVE CYANIDE		Method:SW7.3.3.2		Prep:SW7.3.3.2		Analyst: KVL
Reactive Cyanide	ND	n	100	mg/Kg	1	08-Jul-2020 14:15
REACTIVE SULFIDE		Method:SW7.3.4.2				Analyst: KVL
Reactive Sulfide	ND	n	100	mg/Kg	1	08-Jul-2020 13:10
PH SOIL BY SW9045D		Method:SW9045D				Analyst: JAC
рН	7.80	Н	0.100	pH Units	1	08-Jul-2020 14:18
Temp Deg C @pH	24.0	Н	0	°C	1	08-Jul-2020 14:18

Page 268 of 304 Date: 08-Jul-20 ALS Houston, US

Weight / Prep Log

Permian Basin Environmental Lab, LP Client:

0F26020-1 **Project:** WorkOrder: HS20070019

HS20070019-01

Batch ID: 155042 Start Date: 01 Jul 2020 14:00 End Date: 02 Jul 2020 07:00 Method: TCLP MERCURY EXTRACTION BY SW1311 Prep Code: 1311LHG EXT **Final** Prep Sample Container Wt/Vol Sample ID Volume **Factor** HS20070019-01 100 (grams) 2000 (mL) 20 Batch ID: 155043 End Date: 02 Jul 2020 07:00 Start Date: 01 Jul 2020 14:00 Method: TCLP METALS EXTRACTION BY SW1311 Prep Code: 1311LM EXT Sample Final Prep Container Wt/Vol Sample ID Volume Factor HS20070019-01 100 (grams) 2000 (mL) 20 Start Date: 01 Jul 2020 14:00 Batch ID: 155044 End Date: 02 Jul 2020 07:00 Method: TCLP ZHE (VOL EXTRACTION) Prep Code: 1311ZHE Prep Sample Final Container Sample ID Wt/Vol Volume **Factor** HS20070019-01 25 (g) 500 (mL) Batch ID: 155093 Start Date: 02 Jul 2020 16:00 End Date: 02 Jul 2020 16:00 Method: TCLP LEACHATE DIGESTION BY SW3010A Prep Code: 3010A TCLP Sample Final Prep Container Wt/Vol Volume **Factor** Sample ID

Batch ID: 155166 Start Date: 06 Jul 2020 11:30 End Date: 06 Jul 2020 13:30

1 (mL)

10 (mL)

Method: MERCURY TCLP PREP BY SW7470A Prep Code: 1311 HGPR

Sample **Final** Prep Container Wt/Vol Factor Sample ID Volume HS20070019-01 10 (mL) 10 (mL) 1

10

Client: Permian Basin Environmental Lab, LP

Project: 0F26020-1 DATES REPORT

WorkOrder: HS20070019

Sample ID	Client Sam	p ID C	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155044	1(0)	Test Name: TCL	P VOLATILES			Matrix: Solid	
HS20070019-01	0F26020-1	2	25 Jun 2020 15:15	02 Jul 2020 11:04	02 Jul 2020 11:10	04 Jul 2020 22:10	20
Batch ID: 155093	3(0)	Test Name: TCL	P METALS BY SW	6020A		Matrix: Solid	
HS20070019-01	0F26020-1	2	25 Jun 2020 15:15	02 Jul 2020 07:00	02 Jul 2020 16:00	06 Jul 2020 15:24	1
Batch ID: 155166	6(0)	Test Name: TCL	P MERCURY BY S	N7470A		Matrix: Solid	
HS20070019-01	0F26020-1	2	25 Jun 2020 15:15	02 Jul 2020 07:00	06 Jul 2020 11:30	06 Jul 2020 17:05	1
Batch ID: R3645	48 (0)	Test Name: FLA	SH POINT BY CLE	/ELAND OPEN CUP /	ASTM D92-12B	Matrix: Solid	
HS20070019-01	0F26020-1	2	25 Jun 2020 15:15			06 Jul 2020 14:00	1
Batch ID: R3647	21 (0)	Test Name: PH	SOIL BY SW9045D			Matrix: Solid	
HS20070019-01	0F26020-1	2	25 Jun 2020 15:15			08 Jul 2020 14:18	1
Batch ID: R3647	24 (0)	Test Name: REA	ACTIVE SULFIDE			Matrix: Solid	
HS20070019-01	0F26020-1	2	25 Jun 2020 15:15			08 Jul 2020 13:10	1
Batch ID: R3647	26 (0)	Test Name: REA	ACTIVE CYANIDE			Matrix: Solid	
HS20070019-01	0F26020-1	2	25 Jun 2020 15:15			08 Jul 2020 14:15	1

Client: Permian Basin Environmental Lab, LP

 Project:
 0F26020-1

 WorkOrder:
 HS20070019

Batch ID: 1	55093 (0)	Ins	strument:	ICPMS04	N	Method: 1	TCLP META	LS BY SW60	20A
MBLK	Sample ID:	MBLKT2-155093		Units:	mg/L	Ana	alysis Date:	02-Jul-2020	22:03
Client ID:		F	Run ID: ICPI	MS04_364390	SeqNo:	5651510	PrepDate:	02-Jul-2020	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qu
Arsenic		ND	0.0500						
Barium		ND	0.200						
Cadmium		ND	0.0500						
Chromium		ND	0.0500						
Lead		ND	0.0500						
Selenium		ND	0.0500						
Silver		ND	0.0500						
MBLK	Sample ID:	MBLKT4-155093		Units:	mg/L	Ana	alysis Date:	02-Jul-2020	22:07
Client ID:		F	Run ID: ICPI	MS04_364390	SeqNo:	5651512	PrepDate:	02-Jul-2020	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qu
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:	MBLKT3-155093		Units:	mg/L	Ana	alysis Date:	02-Jul-2020	22:05
Client ID:		F	Run ID: ICPI	MS04_364390	SeqNo:	5651511	PrepDate:	02-Jul-2020	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qu
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						

Client: Permian Basin Environmental Lab, LP

Project: 0F26020-1 **WorkOrder:** HS20070019

Batch ID:	155093 (0)	Ins	strument:	ICPMS04	M	lethod: 1	TCLP METAI	LS BY SW60	20A
MBLK	Sample ID:	MBLKT1-155093		Units:	mg/L	Ana	alysis Date:	02-Jul-2020	22:00
Client ID:		F	Run ID: ICPI	MS04_364390	SeqNo:	5651509	PrepDate:	02-Jul-2020	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		ND	0.0500						
Barium		ND	0.200						
Cadmium		ND	0.0500						
Chromium		ND	0.0500						
Lead		ND	0.0500						
Selenium		ND	0.0500						
Silver		ND	0.0500						
MBLK	Sample ID:	MBLK-155093		Units:	mg/L	Ana	alysis Date:	02-Jul-2020	21:58
Client ID:		F	Run ID: ICPI	MS04_364390	SeqNo:	5651524	PrepDate:	02-Jul-2020	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		ND	0.00500						
Barium		ND	0.0200						
Cadmium		ND	0.00500						
Chromium		ND	0.00500						
Lead		ND	0.00500						
Selenium		ND	0.00500						
Silver		ND	0.00500						
LCS	Sample ID:	LCS-155093		Units:	mg/L	Ana	alysis Date:	02-Jul-2020	22:09
Client ID:		F	Run ID: ICPI	MS04_364390	SeqNo:	5651513	PrepDate:	02-Jul-2020	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		0.04753	0.00500	0.05	0	95.1	80 - 120		
Barium		0.04696	0.0200	0.05	0	93.9	80 - 120		
Cadmium		0.04853	0.00500	0.05	0	97.1	80 - 120		
Chromium		0.04691	0.00500	0.05	0	93.8	80 - 120		
Lead		0.0456	0.00500	0.05	0	91.2	80 - 120		
Selenium		0.04835	0.00500	0.05	0	96.7	80 - 120		
Silver		0.04688	0.00500	0.05	0	93.8	80 - 120		

Client: Permian Basin Environmental Lab, LP

 Project:
 0F26020-1

 WorkOrder:
 HS20070019

Batch ID: 15	55093 (0)	Instr	ument:	ICPMS04	M	ethod: T	CLP META	LS BY SW602	20A
MS	Sample ID:	HS20061449-01MS		Units:	mg/L	Ana	alysis Date:	02-Jul-2020	22:19
Client ID:		Ru	n ID: ICPN	IS04_364390	SeqNo: 5	651516	PrepDate:	02-Jul-2020	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Arsenic		0.5326	0.0500	0.5	0.00192	106	80 - 120		
Barium		1.207	0.200	0.5	0.6406	113	80 - 120		
Cadmium		0.5151	0.0500	0.5	0.00149	103	80 - 120		
Chromium		0.5093	0.0500	0.5	0.00109	102	80 - 120		
Lead		0.5042	0.0500	0.5	0.00517	99.8	80 - 120		
Selenium		0.5413	0.0500	0.5	0.00517	107	80 - 120		
Silver		0.4944	0.0500	0.5	0.00018	98.8	80 - 120		
MSD	Sample ID:	HS20061449-01MS	D	Units:	mg/L	Ana	alysis Date:	02-Jul-2020	22:21
Client ID:		Ru	n ID: ICPN	IS04_364390	SeqNo: 5	651517	PrepDate:	02-Jul-2020	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Arsenic		0.5029	0.0500	0.5	0.00192	100	80 - 120	0.5326	5.74 20
Barium		1.159	0.200	0.5	0.6406	104	80 - 120	1.207	4.04 20
Cadmium		0.5056	0.0500	0.5	0.00149	101	80 - 120	0.5151	1.85 20
Chromium		0.4792	0.0500	0.5	0.00109	95.6	80 - 120	0.5093	6.09 20
Lead		0.482	0.0500	0.5	0.00517	95.4	80 - 120	0.5042	4.5 20
Selenium		0.5101	0.0500	0.5	0.00517	101	80 - 120	0.5413	5.93 20
Silver		0.4767	0.0500	0.5	0.00018	95.3	80 - 120	0.4944	3.64 20
PDS	Sample ID:	HS20061449-01PD	S	Units:	mg/L	Ana	alysis Date:	02-Jul-2020	22:23
Client ID:		Ru	n ID: ICPN	IS04_364390	SeqNo: 5	651518	PrepDate:	02-Jul-2020	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Arsenic		1.062	0.0500	1	0.00192	106	75 - 125		
Barium		1.671	0.200	1	0.6406	103	75 - 125		
Cadmium		1.034	0.0500	1	0.00149	103	75 - 125		
Chromium		1.009	0.0500	1	0.00109	101	75 - 125		
Lead		1.007	0.0500	1	0.00517	100	75 - 125		
Selenium		1.075	0.0500	1	0.00517	107	75 - 125		
Silver		0.9849	0.0500	1	0.00018	98.5	75 - 125		

Client: Permian Basin Environmental Lab, LP

Project: 0F26020-1 **WorkOrder:** HS20070019

Batch ID: 1	55093 (0)	Instru	ment:	ICPMS04	M	ethod: 1	CLP METAL	S BY SW602	0A		
SD	Sample ID:	HS20061449-01SD		Units:	mg/L	Ana	alysis Date: (2-Jul-2020 2	22:17		
Client ID:		Run	ID: ICPN	IS04_364390	SeqNo: 5	651515	PrepDate: 0	2-Jul-2020	DF	F: 5	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qu	al
Arsenic		ND	0.250					0.00192		0 10	
Barium		0.6091	1.00					0.6406		0 10	
Cadmium		ND	0.250					0.00149		0 10	
Chromium		ND	0.250					0.00109		0 10	
Lead		ND	0.250					0.00517		0 10	
Selenium		ND	0.250					0.00517		0 10	_
Silver		ND	0.250					0.00018		0 10	

Client: Permian Basin Environmental Lab, LP

Project: 0F26020-1 **WorkOrder:** HS20070019

Batch ID:	155166 (0)	In	strumen	t: H	HG03	М	lethod: T	CLP MERC	URY BY SW7	7470A	
MBLK	Sample ID:	MBLKT1-155166	6		Units:	mg/L	Ana	alysis Date:	06-Jul-2020	17:02	
Client ID:			Run ID:	HG03	_364560	SeqNo:	5651866	PrepDate:	06-Jul-2020	DF:	1
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value		RPD Limit Qual
Mercury		ND	0.00	0200							
MBLK	Sample ID:	MBLK-155166			L Inits:	mg/L	Ana	alvsis Date	06-Jul-2020	16:53	
Client ID:	Campic ID.		Run ID:	HG03	_364560	SeqNo: §		•	06-Jul-2020	DF:	1
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit			RPD Limit Qual
Mercury		ND	0.00	0200							
LCS	Sample ID:	LCS-155166			Units:	mg/L	Ana	alysis Date:	06-Jul-2020	16:55	
Client ID:			Run ID:	HG03	_364560	SeqNo:	5651862	PrepDate:	06-Jul-2020	DF:	1
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value		RPD Limit Qual
Mercury		0.00504	0.00	0200	0.005	0	101	80 - 120			
MS	Sample ID:	HS20061508-01	MS		Units:	mg/L	Ana	alysis Date:	06-Jul-2020	16:58	
Client ID:			Run ID:	HG03	_364560	SeqNo: 8	5651864	PrepDate:	06-Jul-2020	DF:	1
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value		RPD Limit Qual
Mercury		0.00507	0.00	0200	0.005	0.000022	101	75 - 125			
MSD	Sample ID:	HS20061508-01	MSD		Units:	mg/L	Ana	alysis Date:	06-Jul-2020	17:00	
Client ID:			Run ID:	HG03	_364560	SeqNo:	5651865	PrepDate:	06-Jul-2020	DF:	1
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value		RPD Limit Qual
		0.00495	0.00		0.005	0.000022	98.6	75 - 125	0.00507		1 20

Client: Permian Basin Environmental Lab, LP

Project: 0F26020-1 **WorkOrder:** HS20070019

Batch ID: 155044 (0)	Instrume	nt: V	OA9	Me	ethod: T	CLP VOLAT	TILES .	
MBLK Sample ID:	MBLK-155044		Units:	ug/L	Ana	alysis Date:	04-Jul-2020	21:21
Client ID:	Run ID	VOA9	_364526	SeqNo: 5	650720	PrepDate:	02-Jul-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	944.2	100	1000	0	94.4	70 - 130		
Surr: 4-Bromofluorobenzene	934.7	100	1000	0	93.5	82 - 115		
Surr: Dibromofluoromethane	984.8	100	1000	0	98.5	73 - 126		
Surr: Toluene-d8	977.3	100	1000	0	97.7	81 - 120		
LCS Sample ID:	VLCSW-155044		Units:	ug/L	Ana	alysis Date:	04-Jul-2020	12:18
Client ID:	Run ID	VOA9	_364526	SeqNo: 5	650716	PrepDate:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Benzene	17.54	5.0	20	0	87.7	74 - 120		
Surr: 1,2-Dichloroethane-d4	45.55	5.0	50	0	91.1	70 - 130		
Surr: 4-Bromofluorobenzene	50.76	5.0	50	0	102	82 - 115		
Surr: Dibromofluoromethane	48.64	5.0	50	0	97.3	73 - 126		
Surr: Toluene-d8	49.15	5.0	50	0	98.3	81 - 120		
MS Sample ID:	HS20070069-03MS		Units:	ug/L	Ana	alysis Date:	04-Jul-2020	17:14
Client ID:	Run ID	VOA9	_364526	SeqNo: 5	650719	PrepDate:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Benzene	21.39	5.0	20	0	107	70 - 127		
Surr: 1,2-Dichloroethane-d4	46.42	5.0	50	0	92.8	70 - 126		
Surr: 4-Bromofluorobenzene	49.55	5.0	50	0	99.1	82 - 124		
Surr: Dibromofluoromethane	48.8	5.0	50	0	97.6	77 - 123		
Surr: Toluene-d8	49.58	5.0	50	0	99.2	82 - 127		
The following samples were analyze	ed in this batch: HS2007001	9-01						

Client: Permian Basin Environmental Lab, LP

Project: 0F26020-1 **WorkOrder:** HS20070019

QC BATCH REPORT

Batch ID: R364548 (0) Instrument: WetChem_HS Method: FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B

001 A0111 B02-12B

 DUP
 Sample ID:
 HS20061508-01DUP
 Units:
 °F
 Analysis Date:
 06-Jul-2020 14:00

Client ID: Run ID: WetChem_HS_364548 SeqNo: 5651166 PrepDate: DF: 1

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

Flash Point > 212 50.0 0 0 30

The following samples were analyzed in this batch: HS20070019-01

Client: Permian Basin Environmental Lab, LP

Project: 0F26020-1 **WorkOrder:** HS20070019

QC BATCH REPORT

Batch ID:	R364721 (0)	Instrume	nt:	WetChem_HS		Method:	PH SOIL BY	SW9045D	
DUP	Sample ID:	HS20070019-01DUP		Units:	pH Units	Aı	nalysis Date:	08-Jul-2020	14:18
Client ID:	0F26020-1	Run ID:	: W	VetChem_HS_3647	721 SeqNo	: 5654791	PrepDate:		DF: 1
Analyte		Result	PG	QL SPK Val	SPK Re Value	f %REC	Control Limit		RPD %RPD Limit Qual
рН		7.77	0.10	00				7.8	0.385 10
Temp Deg	С @рН	24		0				24	0 10

The following samples were analyzed in this batch: HS20070019-01

Client: Permian Basin Environmental Lab, LP

The following samples were analyzed in this batch: HS20070019-01

Project: 0F26020-1 **WorkOrder:** HS20070019

Batch ID: R3647	24 (0)	Instrumer	nt:	WetChem_HS	M	ethod:	REACTIVE S	ULFIDE	
MBLK	Sample ID:	MBLK-R364724		Units:	mg/Kg	An	alysis Date:	08-Jul-2020	13:10
Client ID:		Run ID:	Wet	Chem_HS_36472	24 SeqNo: 5	654832	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit		RPD %RPD Limit Qual
Reactive Sulfide		ND	100						
LCS	Sample ID:	LCS-R364724		Units:	mg/Kg	An	alysis Date:	08-Jul-2020	13:10
Client ID:		Run ID:	Wet	Chem_HS_36472	24 SeqNo: 5	654831	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit		RPD %RPD Limit Qual
Reactive Sulfide		72	100	100	0	72.0	20 - 120		·
MS	Sample ID:	HS20070019-01MS		Units:	mg/Kg	An	alysis Date:	08-Jul-2020	13:10
Client ID: 0F2602	20-1	Run ID:	Wet	Chem_HS_36472	24 SeqNo: 5	654833	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Reactive Sulfide		64	100	100	0	64.0	20 - 120		J

Client: Permian Basin Environmental Lab, LP

 Project:
 0F26020-1

 WorkOrder:
 HS20070019

.6 (0)	Instrume	nt: l	UV-2450	М	ethod: I	REACTIVE C	YANIDE	
Sample ID:	MBLK-R364726		Units:	mg/Kg	An	alysis Date:	08-Jul-2020	14:15
	Run ID:	UV-2	450_364726	SeqNo: 5	5654848	PrepDate:		DF: 1
	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
	ND	100						
Sample ID:	LCS-R364726		Units:	mg/Kg	An	alysis Date:	08-Jul-2020	14:15
	Run ID:	UV-2	450_364726	SeqNo: 5	5654847	PrepDate:		DF: 1
	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
	0.62	100	10	0	6.20	5 - 100		
Sample ID:	HS20070019-01MS		Units:	mg/Kg	An	alysis Date:	08-Jul-2020	14:15
0-1	Run ID:	UV-2	450_364726	SeqNo: 5	5654849	PrepDate:		DF: 1
	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
	0.65	100	10	0	6.50	F 100		·
	Sample ID: Sample ID: Sample ID:	Sample ID: MBLK-R364726 Run ID: Result ND Sample ID: LCS-R364726 Run ID: Result 0.62 Sample ID: HS20070019-01MS Q-1 Run ID:	MBLK-R364726 Run ID: UV-2 Result PQL ND 100 Sample ID: LCS-R364726 Run ID: UV-2 Result PQL 0.62 100 Sample ID: HS20070019-01MS 0-1 Run ID: UV-2 Result PQL	Sample ID: MBLK-R364726 Run ID: UV-2450_364726 Result PQL SPK Val ND 100 Units: Sample ID: LCS-R364726 Units: Result PQL SPK Val Sample ID: HS20070019-01MS Units: Result UV-2450_364726 Run ID: UV-2450_364726 Result PQL SPK Val	Sample ID: MBLK-R364726 Units: mg/Kg Run ID: UV-2450_364726 SeqNo: 9 SPK Ref Value ND 100 Sample ID: LCS-R364726 Units: mg/Kg Run ID: UV-2450_364726 SeqNo: 9 SPK Ref Value SPK Ref Value Nalue Nalue Nalue Units: mg/Kg SPK Ref Value Nalue Units: mg/Kg Nalue Nalue Nalue Units: mg/Kg Nalue Nalue Nalue Nalue Units: mg/Kg Nalue le ID: MBLK-R364726 Units: mg/Kg Analysis Run ID: UV-2450_364726 SeqNo: 5654848 SPK Ref Value SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref SPK Ref SPK Value SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref S</td> <td>Sample ID: MBLK-R364726 Units: mg/Kg Analysis Date: Run ID: UV-2450_364726 SeqNo: 5654848 PrepDate: SPK Ref Result PQL SPK Val SPK Ref Value Control Limit ND 100 Units: mg/Kg Analysis Date: Run ID: UV-2450_364726 SeqNo: 5654847 PrepDate: Result PQL SPK Val SPK Ref Value Control Limit 0.62 100 10 0 6.20 5 - 100 Sample ID: HS20070019-01MS Units: mg/Kg Analysis Date: 0-1 Run ID: UV-2450_364726 SeqNo: 5654849 PrepDate: SPK Ref Sequence Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Con</td> <td>Sample ID: MBLK-R364726 Units: mg/Kg Analysis Date: 08-Jul-2020 Run ID: UV-2450_364726 SeqNo: 5654848 PrepDate: RPD Ref Value ND 100 SPK Val SPK Ref Value REC Control Limit RPD Ref Value Sample ID: LCS-R364726 Units: mg/Kg Analysis Date: 08-Jul-2020 Result PQL SPK Val SPK Ref Value REC Control Control RPD Ref Value SPK Ref Result PQL SPK Val NB Analysis Date: 08-Jul-2020 Sample ID: HS20070019-01MS Units: mg/Kg Analysis Date: 08-Jul-2020 O-1 Run ID: UV-2450_364726 SeqNo: 5654849 PrepDate: SPK Ref Value Control RPD Ref Value</td>	Sample ID: MBLK-R364726 Units: mg/Kg Analysis Run ID: UV-2450_364726 SeqNo: 5654848 SPK Ref Value SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref Value SPK Ref SPK Ref SPK Ref SPK Ref SPK Value SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref SPK Ref S	Sample ID: MBLK-R364726 Units: mg/Kg Analysis Date: Run ID: UV-2450_364726 SeqNo: 5654848 PrepDate: SPK Ref Result PQL SPK Val SPK Ref Value Control Limit ND 100 Units: mg/Kg Analysis Date: Run ID: UV-2450_364726 SeqNo: 5654847 PrepDate: Result PQL SPK Val SPK Ref Value Control Limit 0.62 100 10 0 6.20 5 - 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Permian Basin Environmental Lab, LP Client: QUALIFIERS, Project: 0F26020-1 **ACRONYMS, UNITS**

WorkOrder: HS20070019

Qualifier	Description
*	Value exceeds Regulatory Limit
а	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
М	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
0	Sample amount is > 4 times amount spiked
Р	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
DLIP	Method Dunlicate

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 Matrix Spike Duplicate MSD PDS Post Digestion Spike Practical Quantitaion Limit PQL SD Serial Dilution

SDL Sample Detection Limit

TRRP Texas Risk Reduction Program

Unit Reported Description

Date

mg/L Milligrams per Liter

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

					Sample Receipt Check	list
Work Order ID:	HS20070019		Date	/Time Received:	01-Jul-2020 09:40	
Client Name:	Permian Basin Lab		Rece	eived by:	<u>Paresh M. Giga</u>	
Completed By:	/S/ Bernadette A. Fini	01-Jul-2020 12:19	Reviewed by:			
	eSignature	Date/Time	_	eSignature	Date/Time	
Matrices:	solid		Carrier name:	FedEx Prior	rity Overnight	
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Temperature(s)	/Thermometer(s):		1.5,1.5 uc/c		IR25	
Cooler(s)/Kit(s):			red			
Water - VOA via	ole(s) sent to storage: als have zero headspace? eptable upon receipt?		7-1-20 13:00 Yes	No No No	N/A N/A	
Login Notes:						
Client Contacte	d:	Date Contacted:		Person Cont	acted:	
Contacted By:		Regarding:				
Comments:	nn:					



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: **432-686-7235** PBELAB_SUB_COC_V2

	Project Manager: Brent Barron				midiand, 19445 19701										P. C. C. COLORO P. C. C. C. C. C. C. C. C. C. C. C. C. C.																
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LAB # (lab use only)	FIE	LD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	CE	HNO ₂ φωρη	HCI 2x 40mL VOA	HSOLIAMENSON SOLENY NOON ZALECTON DAILY	NaCH JENAC 250 Poly 1	None Poly 500mt, 250mt. Glass Amber 1000 500 mt.	VaOH/ZnAc	DW-Droking Water SL-Sludge	SW = Groundwater S=Soli/Solid NP=Non-Poteble Specify Other	RCI	8082 PCB ONLY	METALS, TCLP RCRA 8 BY ICPMS/74	TCLP BENZENE	NORM-COMPLETE	8260B COMPLETE LIST	8270C PAH LL	8260B COMPLETE LIST	8270C SVOC TCLP	TOX 9020B	Triethylene Glycol 8015m	24 HOUR RUSH	Standard TAT 4 DAY	
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Received by OCD: 7/18/2022 2:01:29 PM

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APPENDIX E PHOTOGRAPHIC DOCUMENTATION

Photograph No. 1

Date: May 27, 2020 Direction: North

Description: View of release area.



Photograph No. 2

Date: May 27, 2020 Direction: North East

Description: View of release area.



Photograph No. 3

Date: May 27, 2020 Direction: South East

Description: View of release area.



Photograph No. 4

Date: May 27, 2020 Direction: South

Description: View of release area.



Photograph No. 5

Date: June 19, 2020 Direction: South East

Description: View of area during excavation.



Photograph No. 6

Date: June 19, 2020 Direction: North East

Description: View of area during excavation.



Photograph No. 7

Date: June 22, 2020 Direction: South

Description: View of release area during excavation.



Photograph No. 8

Date: June 23, 2020 Direction: South East

Description: View of release area during excavation.



Photograph No. 9

Date: June 30, 2020 Direction: North

Description: View of area during excavation.



Photograph No.10

Date: July 30, 2020 Direction: East

Description: View of area during excavation.



Photograph No.11

Date: September 25, 2020 Direction: North

Description: View of sample location "AH-1 SE" area.



Photograph No.12

Date: September 25, 2020
Description: View of the excavation area. Direction: East



Photograph No 13.

Date: June 8, 2021 Direction: East

Description: View of backfilled site.



Photograph No 14.

Date: June 8, 2021 Direction: North

Description: View of backfilled remediation.



Photograph No 15.

Date: April 20, 2021 Direct Description: View of installation of soil boring. Direction: West



Date: June 8, 2021 Direction: South

Description: View of grouted soil boring location.



APPENDIX F EMAIL DEFERRAL REQUEST OF NMOCD RESPONSE

Jeff Kindley

From: Amber L Groves <ALGroves@paalp.com>

Sent: Thursday, July 8, 2021 12:17 PM

To: Jeff Kindley
Subject: FW: [EXT] RE: 2nd Re-submittal of NRM2015326612 Plains Mewbourne Toro 36 B3BO

State Com #1H Variance/Deferral Request

From: Amber L Groves

Sent: Wednesday, April 14, 2021 2:33 PM

To: 'Eads, Cristina, EMNRD' < Cristina. Eads@state.nm.us>; Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>;

Venegas, Victoria, EMNRD < Victoria. Venegas@state.nm.us>

Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>;

Camille J Bryant < CJBryant@paalp.com>

Subject: RE: [EXT] RE: 2nd Re-submittal of NRM2015326612 Plains Mewbourne Toro 36 B3BO State Com #1H

Variance/Deferral Request [External]

Good Afternoon, Cristina,

After extensive groundwater searches, Plains will be installing a soil bore to approximately 75' bgs on Tuesday April 20th per NMOCD request.

To address your questions below, this was an above-ground release. Release volumes are not calculated by our remediation group and are the sole responsibility of operations, typically the district manager. For this release in particular, Tommy Bacon (tjbacon@paalp.com) would need to be reached to answer how the release volume was calculated.

Plains endeavors to maintain a status of being a top-notch operator in terms of remediation so in-situ and any other options are always considered. Unfortunately, due to the presence and nature of equipment, as well as unintended outcomes of some in-situ methods currently used in the industry, there is not an adequate method that this site would be candidate for. We have certainly run pilot projects on smaller projects to determine effectiveness through the years with miniscule returns on desired end results. Please feel free to give me call if you would like to discuss!

Thank you,

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

From: Eads, Cristina, EMNRD < Cristina. Eads@state.nm.us>

Sent: Wednesday, February 10, 2021 3:39 PM

To: Amber L Groves <<u>ALGroves@paalp.com</u>>; Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>; Venegas,

Victoria, EMNRD < Victoria. Venegas@state.nm.us >

Released to Imaging: 7/25/2022 12:09:59 PM

Cc: Bratcher, Mike, EMNRD < <u>mike.bratcher@state.nm.us</u>>; Billings, Bradford, EMNRD < <u>Bradford.Billings@state.nm.us</u>>; Camille J Bryant < <u>CJBryant@paalp.com</u>>

Subject: RE: [EXT] RE: 2nd Re-submittal of NRM2015326612 Plains Mewbourne Toro 36 B3BO State Com #1H Variance/Deferral Request [External]

Amber,

You are correct that variance requests are not required to be submitted through the fee portal and can be submitted via email. However, since this is also a deferral request it should have been submitted through the fee portal along with the completion of pages 3-5 of the C-141. The information that is required for a remediation plan/closure request is similar for a deferral request, thus requiring a similar review process.

After taking a look at the attachment you included with your original email, the variance request and deferral request are denied for the following reason:

• Vertical delineation has not been achieved in multiple locations because the depth to groundwater has not been adequately established. The wells you referenced in your attachment were over a mile away from the site. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. Unless you can find a well or well data that meets this criteria, a soil boring will need to be installed.

Aside from the depth to water being established, I have a couple of questions and comments regarding this release and remediation — Did this release happen at the surface or below ground? And if below ground, at what depth? How was the volume of release calculated? It seems that a large volume of material was impacted for a 10 bbl release. Based on the concentration of contaminants you are requested leaving in place, has an in-situ remediation method been considered?

I would also like to note that if the deferral request were to be approved, the incident would remain open until the release was properly remediated.

Please let me know if you have any additional questions.

Thank you,

Cristina Eads ● Environmental Specialist - A
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland Ave, Suite100 | Albuquerque, NM 87113
505.670.5601 | Cristina.Eads@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Amber L Groves <<u>ALGroves@paalp.com</u>>
Sent: Wednesday, February 10, 2021 1:31 PM

To: Eads, Cristina, EMNRD < Cristina.Eads@state.nm.us; Hamlet, Robert, EMNRD < Robert.Hamlet@state.nm.us;

Venegas, Victoria, EMNRD < Victoria. Venegas@state.nm.us >

Cc: Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us >; Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us >;

Released to Imaging: 7/25/2022 12:09:59 PM

Camille J Bryant < CJBryant@paalp.com >

Subject: [EXT] RE: 2nd Re-submittal of NRM2015326612 Plains Mewbourne Toro 36 B3BO State Com #1H Variance/Deferral Request

Good Afternoon, Cristina,

Released to Imaging: 7/25/2022 12:09:59 PM

I do not have a PO. Since it is a variance request, it has been my understanding that as it doesn't have a portion of the C-141 for association, it could be submitted via e-mail. I fully intend to include the variance and deferral in the closure report and submit through the online portal.

Thank you,

Amber

From: Eads, Cristina, EMNRD < Cristina. Eads@state.nm.us >

Sent: Wednesday, February 10, 2021 2:22 PM

To: Amber L Groves <<u>ALGroves@paalp.com</u>>; Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>; Venegas,

Victoria, EMNRD < Victoria. Venegas@state.nm.us>

Cc: Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us >; Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us >;

Camille J Bryant < CJBryant@paalp.com >

Subject: RE: 2nd Re-submittal of NRM2015326612 Plains Mewbourne Toro 36 B3BO State Com #1H Variance/Deferral

Request [External]

Amber,

Do you have a PO for this submittal? I checked the incident file and see that we only have record of the Initial C-141 being submitted on 5/28/2020.

Thanks,

Cristina Eads • Environmental Specialist - A
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland Ave, Suite100 | Albuquerque, NM 87113
505.670.5601 | Cristina.Eads@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Amber L Groves <<u>ALGroves@paalp.com</u>>
Sent: Wednesday, February 10, 2021 1:02 PM

To: Hamlet, Robert, EMNRD < Robert, Hamlet@state.nm.us >; Eads, Cristina, EMNRD < Cristina. Eads@state.nm.us >;

Venegas, Victoria, EMNRD < Victoria. Venegas@state.nm.us >

 $\textbf{Cc:} \ \ \textbf{Bratcher, Mike, EMNRD} < \underline{\textbf{mike.bratcher@state.nm.us}}; \ \textbf{Billings, Bradford, EMNRD} < \underline{\textbf{Bradford.Billings@state.nm.us}}; \\ \textbf{State.nm.us} > \textbf{State.nm.us}; \\ \textbf{Bradford, EMNRD} < \underline{\textbf{Bradford.Billings@state.nm.us}}; \\ \textbf{Bradford, EMNRD} < \underline{\textbf{Bradford.Billings.ass}}; \\ \textbf{Bradford, EMNRD} < \underline{\textbf{Bradford.Billings.ass}}; \\ \textbf{Bradford, EMNRD} < \underline{\textbf{Bradford.Billings.ass}}; \\ \textbf{Bradford, EMNRD} < \underline{\textbf{Bradford.Billings.ass}}; \\ \textbf{Bradford, EMNRD} < \underline{\textbf{Bradford.Billings.ass}}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Bradford.Billings.ass}; \\ \textbf{Brad$

Camille J Bryant < CJBryant@paalp.com >

Subject: [EXT] 2nd Re-submittal of NRM2015326612 Plains Mewbourne Toro 36 B3BO State Com #1H Variance/Deferral

Request

Good Afternoon,

Please consider this as the second re-submittal of NRM2015326612 Plains Mewbourne Toro 36 B3BO State Com #1H Variance/Deferral Request. This was originally submitted on September 30th and re-submitted on December 1st. Please feel free to give me a call should you have any questions.

Thank you,

Amber L. Groves Remediation Coordinator Plains All American 3112 W. US Hwy 82

Lovington, NM 88260 575-200-5517

From: Amber L Groves

Sent: Tuesday, December 1, 2020 2:00 PM

To: Hamlet, Robert, EMNRD < <u>Robert.Hamlet@state.nm.us</u>>; 'Venegas, Victoria, EMNRD' < Victoria.Venegas@state.nm.us>; Eads, Cristina, EMNRD < <u>Cristina.Eads@state.nm.us</u>>

 $\textbf{Cc:} \ Bratcher, \ Mike, \ EMNRD < \underline{mike.bratcher@state.nm.us}; \ 'Billings, \ Bradford, \ EMNRD' < \underline{Bradford.Billings@state.nm.us}; \ 'Billings, \ Bradford, \ EMNRD' < \underline{Bradford.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Billings.Bil$

Camille J Bryant < CJBryant@paalp.com>

Subject: FW: NRM2015326612 Plains Mewbourne Toro 36 B3BO State Com #1H Variance/Deferral Request

Good Afternoon,

Please consider this as a re-submittal for the below and attached request that was sent on September 30th and would now be considered in automatic denial. Please feel free to give me a call at 575-200-5517 should you have any questions.

Thank you,

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

From: Amber L Groves

Sent: Wednesday, September 30, 2020 3:43 PM

To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>; 'Venegas, Victoria, EMNRD' <<u>Victoria.Venegas@state.nm.us</u>>; Eads, Cristina, EMNRD <<u>Cristina.Eads@state.nm.us</u>>

Cc: Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us >; Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us >;

Camille J Bryant <CJBryant@paalp.com>

Subject: NRM2015326612 Plains Mewbourne Toro 36 B3BO State Com #1H Variance/Deferral Request

Good Afternoon,

On May 23, 2020 Plains had an approximate 10.4 bbl crude oil release at the Mewbourne Toro 36 B3BO State Com #1H with initial C-141 filed and subsequently approved. Incident #NRM2015326612 was assigned for tracking purposes. The release area is located in low Karst with depth to groundwater at approximately 265' bgs. A Karst map and NMOSE and USGS groundwater data can be found in the attachment. Initial delineation samples were taken on May 29th in conjunction with excavation activities. Delineation samples AH-1 and AH-2 were taken inside the LACT unit area to achieve vertical delineation of the release area. AH-1 was terminated at a depth of 13' bgs with a result of 266.3 mg/kg TPH. A trench was utilized for AH-2 and vertical delineation achieved at 14' bgs with a result of <27.2 mg/kg TPH. The LACT unit area was excavated to a depth of 4' bgs with confirmation wall samples shown on the map in Figure 4 with corresponding concentrations in the attached chemistry table. The excavation was taken to the extent practicable to the east, against Mewbourne's containment. Additional horizontal delineation of impact was taken underneath Mewbourne's containment to the east at 1', 3', 5' and 7'. Additional vertical delineation samples were taken of the approximate 1' wide area that ran outside of Plains LACT unit, up against and under Mewbourne's containment. Vertical

Released to Imaging: 7/25/2022 12:09:59 PM

delineation was accomplished with all sample points, with the exception of AH-1 SE where limestone refusal was met at 9' bgs. Due to the proximity of Plains' release to Mewbourne's metal containment, Plains is unable to utilize equipment safely in this area and would like to respectfully request a deferral of delineation until time of Mewbourne facility abandonment. Please see photo #11 for reference. In addition to the request for deferral of AH-1 SE delineation, Plains would also like to request deferral of the remaining impact to the LACT area and underneath Mewbourne's containment due to equipment currently in place and is proposing the installation of a 20 mil liner to mitigate migration. Maps, chemistry table, photos and groundwater information can be found in the attachment and all laboratory reports will be submitted with final closure/deferral request that will be submitted to NMOCD online. 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:

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Attention:

Received by OCD: 7/18/2022 2:01:29 PM

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Received by OCD: 7/18/2022 2:01:29 PM

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APPENDIX G NMOCD EMAIL RESPONSE TO VARIANCE REQUEST

Elizabeth Stuart

From: Amber L Groves <ALGroves@paalp.com>
Sent: Tuesday, December 28, 2021 4:10 PM

To: Elizabeth Stuart; Jeff Kindley

Subject: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 44187

From: Amber L Groves

Sent: Tuesday, October 5, 2021 8:27 AM

To: Kaylan Longee <kaylanlongee@deanequip.com>; Steve Casanova <stevecasanova@deandigs.com>; Jeff Kindley

<jeffreykindley@deandigs.com>; Elizabeth Stuart <elizabethstuart@deandigs.com>

Subject: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 44187 [External]

Good Morning,

OCD has determined that since the samples are a year old they are obsolete and that we will have to try again on AH-1 SE. What is the availability of having the 18' hand auger and a couple of people go to Mewbourne Toro this week?

Thank you,

Amber

From: OCDOnline@state.nm.us < OCDOnline@state.nm.us >

Sent: Thursday, September 23, 2021 3:38 PM **To:** Amber L Groves <<u>ALGroves@paalp.com</u>>

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 44187 [External]

To whom it may concern (c/o Amber Groves for PLAINS MARKETING L.P.),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM2015326612, for the following reasons:

- The OCD finds the laboratory analyzed samples to be obsolete and would impact the decision for the deferral.
- AH-1 SE has not been fully delineated.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 44187.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you, Chad Hensley Environmental Science & Specialist 575-703-1723 Chad.Hensley@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

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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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 126225

CONDITIONS

Operator:	OGRID:
PLAINS MARKETING L.P.	34053
333 Clay Street Suite 1900	Action Number:
Houston, TX 77002	126225
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Deferral Request Approved.	7/25/2022