Form C-141

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 b	a 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 healt	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: Kan law Hudgens Title: HSE Remediation Specifications II								
Signature:	Date: 7/15/2022							
email: Khudgens @ paalp.com	Telephone:5511							
OCD Only								
Received by:	Date:							
Approved Approved with Attached Conditions of	f Approval 🗌 Denied 🔀 Deferral Approved							
Signature: Jennifer Nobui	Date: 07/25/2022							



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,

Cliquett Strat

Elizabeth Stuart 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

	SAMP	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 RECOMMENDED REMEDIATION ACTION 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

Dean	Project:	Plains Mewbourne Toro
12600 W County Rd 91	Project Number:	PP-22168
Midland TX, 79707	Project 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

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

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

Analyte		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Р	ermian B	asin Envi	ronmental L	ab, L.P.			
General Chemistry Parameters by	EPA / Standa	ard Metl	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	1.1 %	70-130		P2F2903	06/29/22 09:44	06/29/22 15:48	TPH 8015M	
Surrogate: o-Terphenyl	8	6.7 %	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	

Permian Basin Environmental Lab, L.P.

Dean 12600 W County Rd 91 Midland TX, 79707			-	t Number:	Plains Mewb PP-22168 Elizabeth Stu				
				AH-4	0				
				2F28002-	-06 (Soil)				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Р	ermian B	asin Envi	ronmental L	.ab, L.P.			
General Chemistry Parameters by	EPA / Standa	ard Met	hods						
% 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	7	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	

Dean 12600 W County Rd 91 Midland TX, 79707			2	t Number: Manager:	Elizabeth Stu				
				AH-5 2F28002-	0				
					()				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by % Moisture	<u>EPA / Stand</u> 2.0			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 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 C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/29/22 09:44	06/29/22 20:20	calc	

12600 W County Rd 91 Midland TX, 79707			5	t Number:	Plains Mewbo PP-22168 Elizabeth Stua				
				AH-6 2F28002-	-				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Conoval Chamistury Payamatans by	EPA / Stands			asin Envi	ronmental L	ab, L.P.			
<u>General Chemistry Parameters by</u> % Moisture	2.0	0.1	noas %	1	P2F2912	06/29/22 15:52	06/29/22 16:01	ASTM D2216	
· · · ·	2.0	0.1	%	1	P2F2912	06/29/22 15:52	06/29/22 16:01	ASTM D2216	
% Moisture	2.0	0.1	%	1 1 1 1	P2F2912 P2F2903 P2F2903 P2F2903	06/29/22 15:52 06/29/22 09:44 06/29/22 09:44 06/29/22 09:44	06/29/22 16:01 06/29/22 22:11 06/29/22 22:11 06/29/22 22:11	ASTM D2216 TPH 8015M TPH 8015M TPH 8015M	

Dean 12600 W County Rd 91 Midland TX, 79707			-	t Number:	Elizabeth Stu				
				2F28002-	-21 (Soil)				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by				asin Envi	P2F2912	06/29/22 15:52	06/29/22 16:01	ASTM D2216	
% Moisture Total Petroleum Hydrocarbons C6-	6.0 C35 by EPA			I	F2F2912	00/29/22 13.32	00/29/22 10:01	A31M D2210	
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	83.7 %	70-130		P2F2904	06/29/22 10:20	07/01/22 06:25	TPH 8015M	
Surrogate: o-Terphenyl	ç	01.3 %	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	

Dean	Project: Plains Mewbourne Toro
12600 W County Rd 91	Project Number: PP-22168
Midland TX, 79707	Project 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
Thatye	Result	Linin	Onits	Level	Result	JULLE	Linits	IU D	Linit	Trotes
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)	Sou	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 &	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)	Source: 2F28003-13		Prepared &	Analyzed:	06/29/22					
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P2F2912-DUP5)	Sou	rce: 2F29004-	05	Prepared &	Analyzed:	06/29/22				
% Moisture	1.0	0.1	%		1.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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

Permian Basin Environmental Lab, L.P.

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

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Midland TX, 79707	Project Manager:	Elizabeth Stuart

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Kesuit	Liinit	Units	Level	Kesun	70KEC	Linnts	KPD	Liiiit	Notes
Batch P2F2903 - TX 1005										
Matrix Spike (P2F2903-MS1)	Sourc	e: 2F28002	-20	Prepared: ()6/29/22 Ai	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)	Sourc	e: 2F28002	-20	Prepared: ()6/29/22 Ai	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: ()6/29/22 Ai	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: ()6/29/22 Ai	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 Ai	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			

Permian Basin Environmental Lab, L.P.

Dean	Project:	Plains Mewbourne Toro
12600 W County Rd 91	Project Number:	PP-22168
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Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Emit	onto	Level	result	JUILLO	Linits	iu D	Linit	1,0003
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		<i>93.7</i>	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			

Permian Basin Environmental Lab, L.P.

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

Notes and Definitions

ROI Received on Ice

- NPBEL C(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

Sun Barron

Report Approved By:

Date: 7/

7/5/2022

Brent Barron, Laboratory Director/Technical Director

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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:

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

Dean	Project:	Plains Mewbourne Toro
12600 W County Rd 91	Project Number:	PP-22168
Midland TX, 79707	Project 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

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

AH-8 @ 1'

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Р	ermian B	asin Envi	ronmental L	ab, L.P.			
General Chemistry Parameters by	EPA / Standa	rd 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	4.2 %	70-130		P2F2904	06/29/22 10:20	07/01/22 08:21	TPH 8015M	
Surrogate: o-Terphenyl	8	7.6 %	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	

Permian Basin Environmental Lab, L.P.

Dean 12600 W County Rd 91 Midland TX, 79707			5	t Number: Manager:	Elizabeth Stu				
				AH-9	-				
				2F28003-	-06 (Soil)				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by	EPA / Stand		hods	asin Envi	ronmental L	.ab, L.P.			
% Moisture Total Petroleum Hydrocarbons C6-	6.0 C35 by EPA	0.1 Method	% 8015M	1	P2F2912	06/29/22 15:52	06/29/22 16:01	ASTM D2216	
C6-C12	ND	26.6	mg/kg dry	1	P2F2904	06/29/22 10:20	07/01/22 11:06	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P2F2904	06/29/22 10:20	07/01/22 11:06	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P2F2904	06/29/22 10:20	07/01/22 11:06	TPH 8015M	
Surrogate: 1-Chlorooctane		81.7 %	70-130		P2F2904	06/29/22 10:20	07/01/22 11:06	TPH 8015M	
Surrogate: o-Terphenyl	d	86.2 %	70-130		P2F2904	06/29/22 10:20	07/01/22 11:06	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	06/29/22 10:20	07/01/22 11:06	calc	

Dean 12600 W County Rd 91 Midland TX, 79707			-	t Number:	Plains Mewb PP-22168 Elizabeth Stu				
				AH-1(2F28003-	-				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>General Chemistry Parameters by</u> % Moisture	<u>EPA / Stand</u> 8.0	ard Met 0.1	hods %	1	P2F2912	06/29/22 15:52	06/29/22 16:01	ASTM D2216	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method							
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	76.8 %	70-130		P2F2904	06/29/22 10:20	07/01/22 13:05	TPH 8015M	
Surrogate: o-Terphenyl	8	81.0 %	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	

Dean 12600 W County Rd 91 Midland TX, 79707			-	t Number:	Plains Mewb PP-22168 Elizabeth Stu				
				AH-11 2F28003-	1 @ 1' -16 (Soil)				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>General Chemistry Parameters by</u> % Moisture	<u>EPA / Stand</u> 6.0			1	P2F2912	06/29/22 15:52	06/29/22 16:01	ASTM D2216	
Total Petroleum Hydrocarbons C6-	÷								
C6-C12 >C12-C28 >C28-C35	ND ND ND	26.6 26.6 26.6	mg/kg dry mg/kg dry mg/kg dry	1 1 1	P2F2909 P2F2909 P2F2909	06/29/22 11:30 06/29/22 11:30 06/29/22 11:30	06/30/22 10:03 06/30/22 10:03 06/30/22 10:03	TPH 8015M TPH 8015M TPH 8015M	
Surrogate: 1-Chlorooctane Surrogate: o-Terphenyl		86.9 % 92.0 %	70-130 70-130		P2F2909 P2F2909	06/29/22 11:30 06/29/22 11:30	06/30/22 10:03 06/30/22 10:03	TPH 8015M 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	

Dean	Project:	Plains Mewbourne Toro
12600 W County Rd 91	Project Number:	PP-22168
Midland TX, 79707	Project 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
Thatye	Result	Linin	Onits	Level	Result	JULLE	Linits	IU D	Linit	Trotes
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)	Sou	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 &	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	rce: 2F28003-	13	Prepared &	Analyzed:	06/29/22				
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P2F2912-DUP5)	Sou	rce: 2F29004-	05	Prepared &	Analyzed:	06/29/22				
% Moisture	1.0	0.1	%		1.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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

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							10.1.10.0			
Blank (P2F2904-BLK1)				Prepared: (06/29/22 Ai	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: ()6/29/22 Ai	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 Ai	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 Ai	nalvzed: 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 Ai	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.

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

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										
Calibration Check (P2F2904-CCV3)				Prepared: ()6/29/22 Ai	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)	Sou	rce: 2F28003	-15	Prepared: ()6/29/22 Aı	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: ()6/29/22 Ai	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: ()6/29/22 Ai	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: ()6/29/22 Ai	nalyzed: 06	/30/22			
C6-C12	907	25.0	mg/kg	1000		90.7	75-125			
>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.

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

43.6

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:	06/29/22 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:	06/29/22 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:	06/29/22 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:	06/29/22 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	ırce: 2F29004	-04	Prepared:	06/29/22 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			

50.5

Permian Basin Environmental Lab, L.P.

Surrogate: o-Terphenyl

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

70-130

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

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 Matrix Spike Dup (P2F2909-MSD1)	Sourc	e: 2F29004	-04	Prepared: ()6/29/22 A	nalyzed: 06	5/30/22			
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			

Permian Basin Environmental Lab, L.P.

Dean	Project:	Plains Mewbourne Toro
12600 W County Rd 91	Project Number:	PP-22168
Midland TX, 79707	Project 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 C(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

Report Approved By:

Bun Barron

7/5/2022

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

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

Date:

	Dean	Project:	Plains Mewbourne Toro
I	12600 W County Rd 91	Project Number:	PP-22168
	Midland TX, 79707	Project Manager:	Elizabeth Stuart

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ermian Basin Environmental Lab, LP Project Name: Mewbourne Toro Project Name: Mewbourne Toro P				_		Ð	5 B1	违	÷	6 2	11	SFE SFE	HFE YFE	3Ft 3FE	FE 2FE	E IFE 6/28/				LO IV CI			97				CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
Image:	NA.			by:		KHI JIH	9:141	9-11 0	9:06	9:03	8:57	8:49	8:46		14:8		Field Filtered		<u>م</u> ا د			Fax No:					AL YSIS REQUEST Permi 1400 Midia
Project Name: Methoume Toro Project Loc: Lea County, NM Project Containers RCI Project Loc: Project Loc: Project Loc: Laboratory Comments: Sample Containers) RCI Project Laboratory Comments: X Sample Containers) X Project Loc: PH Project Loc: X Project Loc: X Project Loc: X Project Loc: RCI Paint Filter X Project Loc: X						\mathbf{i}			X	i x						$j \chi$	Iса HNO _{3 250,ла Робу} HCI H ₂ SO ₄ NaOH	Preservation & # of Co	avlanlongee@deanec	einnerberezwoeanun eizabethstuart@deanc	onsiformorrowedoppedie						ılan Basin Environmenta) Rankin Hwy and, Texas 79701
•C Feeder •C • • • • • • • • • • • • • • • • • •	6/28/12/16-			_		0											None 1L Poly NaOH/ZnAc DW=Drinking Water SL=Sludge GW = Groundwater S=Bol/Solid NP=Non-Potable Specify Other	iers Maurix	1 3		3	Report F	WORK	Pa		Proje	il Lab, LP
•C Feeder •C • • • • • • • • • • • • • • • • • •		L	Custody seals on cooler Custody seals on cooler		VOCs Free of Headspa	Sample Containers Inta											BTEX 8021 B TCLP BENZENE CHLORIDES TCLP METALS NORM PAINT FILTER		· · · · · ·	Analyze F	nt @ naal o , com	×	DRDER #: MANAAAAAAAAAAA	vject Loc: Lea County, NM	Project #: PP-22168	ct Name: Mewbourne Toro	Phone: 43
	The Uppon Rea		25		8	<u>ड</u> ़		F								X	RCI pH	co		For			S:2				2-686-7235



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

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 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

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

	SAMPLE INFO	ORMATION			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)
NIMO	CD Recommended R	amadiatian	Action Loval		10		-		50	20.000			1.000		2,500
AH-1 @1'	05/29/20	1 ft	Grab	Soil	8.81	36.1	32.7	101	178.61	19.0	- 8.660	- 15.800	24.460	2.490	26.900
AH-1@1 AH-1@3'	05/29/20	3 ft	Grab	Soil	20.1	37.2	26.2	87.8	178.01	19.0	8,630	14.000	22,630	2,490	20,900
AH-1 @5'	05/29/20	5 ft	Grab	Soil	22.7	40.8	31.4	91.8	186.7		9,860	13,000	22,860	2,220	24,800
AH-1 (A) @5'	10/12/21	5 ft	Grab	Soil	0.199	7.8	4.33	35.3	47.629	38.6	1,810	4,870	6.680	866	7,546
AH-1 @7'	06/23/20	7 ft	Grab	Soil	10.1	24.4	20.8	58.6	113.9	70.6	3,470	4,560	8,030	530	8,560
AH-1 (A) @7'	10/12/21	7 ft	Grab	Soil	-		-	-	-	38.3	1,730	3.860	5,590	600	6.190
AH-1 @9'	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	-	-	-	-	-	-	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

	SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030				METHOD: E 300		METHO	DS: EPA SW 8	46-8015M	
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)
												T			
NMO	CD Recommended R	emediation	Action Level		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	D 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	-	-	-	-	-	-	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	-	-	-	-	-	-	260	1390	1,650	213	1863
NE Wall (A) @ 5'	07/14/20	5 ft	Grab	Soil	-	-	-	-	-	-	<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

Received by OCD: 7/18/2022 2:01:29 PM Figure 1

Site Location Map Plains Pipeline LLC Mewbourne Toro Release SRS: 2020-50 GPS: 32.267528, -103.42205 Lea County, NM

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Site Location

Page 54 of 304

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

DEAN





Received by OCD: 7/18/2022 2:01:29 PM Figure 4

Site Details and Delineation Soil Sample Location Map Plains Pipeline LLC Mewbourne Toro Release SRS: 2020-50 GPS: 32.26731992, -103.4220084 Lea County, NM





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

Responsible Party Plains Pipeline, L.P.	OGRID 713291
Contact Name Amber Groves	Contact Telephone 575-200-5517
Contact email algroves@paalp.com	Incident # (assigned by OCD)
Contact mailing address 577 US HWY 385 N Seminole, TX 79360	

Location of Release Source

Latitude <u>32.26731992</u>

Longitude <u>-103.4220084</u>

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Plains Mewbourne Toro 36 B3BO State Com #1H	Site Type LACT Unit
Date Release Discovered 5/23/2020 @ 8:00 AM	API# (if applicable)

Unit Letter	Section	Township	Range	County
В	36	238	34E	Lea

Surface Owner: State Federal Tribal Private (Name: <u>BP Ranches</u>

Nature and Volume of Release

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

Volume Released (bbls) 10.4 bbls	Volume Recovered (bbls) 5 bbls
Volume Released (bbls)	Volume Recovered (bbls)
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (Mcf)	Volume Recovered (Mcf)
Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
-	Volume Released (bbls) Is the concentration of dissolved chloride in the produced water >10,000 mg/l? Volume Released (bbls) Volume Released (Mcf)

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

Oil Conservation Division

Incident ID	NRM2015326612
District RP	
Facility ID	
Application ID	

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

Initial Response

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

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: <u>Amber Groves</u>	Title: <u>Remediation Coordinator</u>					
Signature:	Date:					
email: <u>algroves@paalp.com</u>	Telephone:(575)200-5517					
OCD Only						
Received by: Ramona Marcus	Date:6/1/2020					

Page 2

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NRM2015326612

Amber L Groves

From:	Tommy J Bacon
Sent:	Thursday, May 28, 2020 12:34 PM
То:	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 Received by OCD: 7/18/2022 2:01:29 PM Form C-141 State 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

Page 5

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: <u>Amber Groves</u> Title: <u>Remediation Specialist</u>
Signature: Mbut (MC) Date: <u>8/24/2021</u>
email: <u>algroves@paalp.com</u> Telephone: <u>575-200-5517</u>
OCD Only
Received by: Date:
Approved Approved with Attached Conditions of Approval Denied Deferral Approved
Signature: Date:

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APPENDIX B NMOSE WATER WELL



Groundwaterdata2.html

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 U					
Well Tag	POD	Number	Q64	Q16 Q	4 Sec	Tws	Rng	X	Y	
	C 0	3620 POD1	1	4 3	32	23S	34E	641790	3569941 🌑	
Driller Lic	ense:	1682	Driller	Comp	any:	HU	NGRY	HORSE, LL	.C.	
Driller Nai	me:	NORRIS, JOHN	D. (LD)							
Drill Start	Date:	04/10/2013	Drill F	'inish I	Date:	0	4/ 29/ 20	13 Pl	ug Date:	
Log File Date: 06/18/2013 Pump Type:		PCW	PCW Rcv Date: Pipe Discharge Size:				So	urce:	Shallow	
		Pipe D					Es			
Casing Siz		8.00	Depth	Weli:		4	80 feet	De	epth Water:	130 feet
	Wate	er Bearing Stratil	ications:		Тор	Botton	1 Desc	ription		
					14	3) Sand	stone/Grave	l/Conglomerate	l
					41	20	3 Shale	/Mudstone/	Siltstone	
					203	21	5 Sand	stone/Grave	l/Conglomerate	
					249	25	5 Sand	stone/Grave	l/Conglomerate	
					362	36	7 Sand	stone/Grave	l/Conglomerate	;
x		Casing Per	forations:		Тор	Botto	n			
					0	48	0			

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

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SAMPLE 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	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

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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 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 @ 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 91	Project Number:	PP-2061/SRS#2020-050	
Midland TX, 79707	Project Manager:	Sylwia Reynolds	

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

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

Permian Basin Environmental Lab, L.P.

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

Dean	an Project: Plains: Mewborne Toro								
12600 W County Rd 91	Project Number: PP-2061/SRS#2020-050								
Midland TX, 79707 Project Manager: Sylwia Reynolds									
		A	H-1 @ 3'						
			004-02 (Soi	I)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin F	Environmen	ital Lab, l	L .P.				
BTEX by 8021B									
Benzene	20.1	0.110	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Toluene	37.2	0.549	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Ethylbenzene	26.2	0.549	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Xylene (p/m)	57.2	0.549	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Xylene (o)	30.6	0.110	mg/kg dry	100	P0F0308	06/03/20	06/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.3 %	75-1.	25	P0F0308	06/03/20	06/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		55.1 %	75-1.	25	P0F0308	06/03/20	06/04/20	EPA 8021B	S-GC
General Chemistry Parameters by EI	PA / Standard Methods	5							
% Moisture	9.0	0.1	%	1	P0F0301	06/03/20	06/03/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C.	35 by EPA Method 801	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 %	70-1.	30	P0F0208	06/02/20	06/05/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-1.	30	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	

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.
Dean		Proj	ect: Plains: l	Mewborne	Toro			Fax:	
12600 W County Rd 91		Project Num	ber: PP-2061	l/SRS#202	0-050				
Midland TX, 79707	I	Project Mana	ger: Sylwia	Reynolds					
		A	H-1 @ 5'						
			004-03 (Soi	I)					
		D (
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin H	Environmen	tal 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 El	PA / Standard Methods	8							
% Moisture	11.0	0.1	%	1	P0F0301	06/03/20	06/03/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 801	5M							
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	

Dean		5	ect: Plains:					Fax:	
12600 W County Rd 91		Project Num			0-050				
Midland TX, 79707		Project Mana	ger: Sylwia	Reynolds					
			H-2 @ 1'						
		0F01	004-04 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environme	ntal 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-G0
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									

Dean		Proj	ect: Plains: I	Mewborne	Toro			Fax:	
12600 W County Rd 91		Project Num	ber: PP-2061	l/SRS#202	0-050				
Midland TX, 79707]	Project Mana	ger: Sylwia	Reynolds					
		Α	H-2 @ 3'						
			004-05 (Soi	I)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin H	Environmen	ital 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 EI	PA / Standard Method	5							
% Moisture	8.0	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	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	

Dean		Proj	ect: Plains:]	Mewborne	Toro			Fax:	
12600 W County Rd 91		Project Num	ber: PP-206	1/SRS#202	0-050				
Midland TX, 79707	Ι	Project Mana	ger: Sylwia	Reynolds					
		A	H-2 @ 5'						
			004-06 (Soi	l)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin F	Environmen	ital Lab. 1	[. . P.				
BTEX by 8021B									
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 EF	A / Standard Methods	8							
% Moisture	11.0	0.1	%	1	P0F0301	06/03/20	06/03/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 801	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	

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	

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 (G	C)									
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.

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	

Permian Basin Environmental Lab, L.P.

	F 1	Reporting	T T 1	Spike	Source	0/552	%REC	D.C.S.	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F0308 - General Preparation (G	C)									
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: ()6/03/20 A1	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.

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	

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 (GC)										
Calibration Check (P0F0308-CCV3)				Prepared:	06/03/20 Ai	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 Ai	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 Ai	nalyzed: 06	5/04/20			
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.

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	

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 P0F0301 - *** DEFAULT PREP ***										
Blank (P0F0301-BLK1)				Prepared 8	& 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	400		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			-				
Calibration Blank (P0F0601-CCB2)				Prepared: (06/06/20 A	nalyzed: 06	5/09/20			
Chloride	0.00		mg/kg wet	*		·				

Permian Basin Environmental Lab, L.P.

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	

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	Analyzed: 06	5/08/20			
Chloride	21.4		mg/kg	20.0		107	0-200			
Calibration Check (P0F0601-CCV2)				Prepared: (06/06/20 A	Analyzed: 06	5/09/20			
Chloride	21.6		mg/kg	20.0		108	0-200			
Calibration Check (P0F0601-CCV3)				Prepared: (06/06/20 A	Analyzed: 06	5/09/20			
Chloride	22.0		mg/kg	20.0		110	0-200			
Matrix Spike (P0F0601-MS1)	Sou	rce: 0F01006	-01	Prepared: (06/06/20 A	Analyzed: 06	5/09/20			
Chloride	7340	27.2	mg/kg dry	2720	4320	111	80-120			
Matrix Spike (P0F0601-MS2)	Sou	rce: 0F01004	-04	Prepared: 06/06/20 Analyzed: 06/09/20			5/09/20			
Chloride	16900	55.6	mg/kg dry	5560	13.8	303	80-120			
Matrix Spike Dup (P0F0601-MSD1)	Sou	rce: 0F01006	-01	Prepared: (06/06/20 A	Analyzed: 06	5/09/20			
Chloride	7360	27.2	mg/kg dry	2720	4320	112	80-120	0.303	20	
Matrix Spike Dup (P0F0601-MSD2)	Sou	rce: 0F01004	-04	Prepared: (06/06/20 A	Analyzed: 06	5/09/20			
Chloride	16900	55.6	mg/kg dry	5560	13.8	304	80-120	0.414	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		

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 At	nalyzed: 06	/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 At	nalyzed: 06	/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 At	nalyzed: 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: ()6/02/20 At	nalyzed: 06	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: ()6/02/20 At	nalyzed: 06	/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.

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	

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
Anaryte	Kesuit	Limit	Units	Level	Kesuit	70KEC	Limits	KPD	Limit	Indies
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: ()6/02/20 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			

Permian Basin Environmental Lab, L.P.

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
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:

Bun Barron

Date: <u>6/11/2020</u>

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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	

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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

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	

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

				,					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	nian Basin H	Environmei	ntal Lab, I	L .P.				
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	75-125		06/29/20	06/30/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		89.5 %	75-125		P0F2905	06/29/20	06/30/20	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	ls							
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-C35	by EPA Method 80	015M							
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 %	70-130		P0F2502	06/25/20	06/25/20	TPH 8015M	
Surrogate: o-Terphenyl		96.0 %	70-1	70-130		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	

Permian Basin Environmental Lab, L.P.

Dean		Proj	ect: Plains:	Mewborne	Toro			Fax:	
12600 W County Rd 91		Project Num	ber: PP-206	1/SRS#202	0-050				
Midland TX, 79707	J	Project Mana	ger: Sylwia	Reynolds					
		А	H-1 @ 9'						
			012-02 (Soi	l)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environmer	ntal 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 Methods	5							
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	5 by EPA Method 801	5M							
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	

Dean		Proj		Fax:					
12600 W County Rd 91		Project Num	ber: PP-206	1/SRS#202	0-050				
Midland TX, 79707]	Project Mana	ger: Sylwia	Reynolds					
		Δ	H-2 @ 7'						
			012-03 (Soi	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environmer	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-GO
Surrogate: 1,4-Difluorobenzene		89.7 %	75-1	25	P0F2905	06/29/20	06/30/20	EPA 8021B	
General Chemistry Parameters by EPA	A / Standard Method	5							
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-C3	5 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	

Dean		Proj			Fax:				
12600 W County Rd 91		Project Num	ber: PP-206	1/SRS#202	0-050				
Midland TX, 79707		Project Mana	ger: Sylwia	Reynolds					
			H-2 @ 9'						
		0F24	012-04 (Soi	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin H	Environmer	ıtal 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 %	75-1	25	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		67.1 %	75-1	25	P0F2905	06/29/20	06/30/20	EPA 8021B	S-GC
General Chemistry Parameters by EPA	/ Standard Method	ls							
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-C35	5 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	1030	27.8	mg/kg dry	1	[CALC]	06/25/20	06/25/20	calc	
C6-C35									

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	

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)									
Blank (P0F2905-BLK1)				Prepared: 0	06/29/20 Ai	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: 0	6/29/20 At	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: 0	6/29/20 At	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: 0	6/29/20 Ai	nalyzed: 06	/30/20			
Benzene	0.00		mg/kg wet							
Toluene	0.420		"							
Ethylbenzene	0.330		"							
Xylene (p/m)	0.530		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		87.0	75-125			

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	

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)										
Calibration Blank (P0F2905-CCB2)				Prepared: ()6/29/20 Ar	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: ()6/29/20 Ar	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: ()6/29/20 Ar	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: ()6/29/20 Ar	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.

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	

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 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)	Source: 0F26003-01			Prepared: (06/29/20 A	nalyzed: 06				
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	ırce: 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.

Dean		Р	roject: Plai	ins: Mewbor	me Toro			Fax:			
12600 W County Rd 91		Project N	umber: PP-	2061/SRS#2	2020-050						
Midland TX, 79707		Project Ma	inager: Syl	wia Reynold	ls						
General Ch	emistry Para	meters by	y EPA / S	Standard	Methoo	ls - Qua	lity Con	trol			
	Perm	ian Basin	Enviror	nmental l	Lab, L.P	•					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch P0F2601 - *** DEFAULT PREP **	*										
Blank (P0F2601-BLK1)				Prepared &	Analyzed:	06/26/20					
% Moisture	ND	0.1	%								
Duplicate (P0F2601-DUP1)	Sou	rce: 0F25004	-10	Prepared & Analyzed: 06/26/20							
% Moisture	10.0	0.1	%	11.0				9.52	20		
Batch P0F2608 - *** DEFAULT PREP **	*										
Blank (P0F2608-BLK1)				Prepared &	Analyzed:	06/26/20					
Chloride	ND	1.00	mg/kg wet								
LCS (P0F2608-BS1)				Prepared &	Analyzed:	06/26/20					
Chloride	391	1.00	mg/kg wet	400		97.8	80-120				
LCS Dup (P0F2608-BSD1)				Prepared &	Analyzed:	06/26/20					
Chloride	391	1.00	mg/kg wet	400		97.7	80-120	0.118	20		
Calibration Blank (P0F2608-CCB2)				Prepared &	Analyzed:	06/26/20					
Chloride	0.00		mg/kg wet								
Calibration Check (P0F2608-CCV1)				Prepared &	Analyzed:	06/26/20					
Chloride	19.0		mg/kg	20.0		95.2	0-200				
Calibration Check (P0F2608-CCV2)				Prepared &	Analyzed:	06/26/20					
Chloride	19.2		mg/kg	20.0		95.8	0-200				
Calibration Check (P0F2608-CCV3)				Prepared: ()6/26/20 A	nalyzed: 06	/27/20				
Chloride	21.0		mg/kg	20.0		105	0-200				

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		

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

RPD Limit No		%REC							
Limit No	RPD Limit			Source	Spike		Reporting		
	KI D Ellillit	Limits	%REC	Result	Level	Units	Limit	Result	Analyte
									Batch P0F2608 - *** DEFAULT PREP ***
			06/26/20	Analyzed:	Prepared &	-02	rce: 0F24014-	Sourc	Matrix Spike (P0F2608-MS1)
		80-120	117	11100	2720	mg/kg dry	27.2	14300	Chloride
			Prepared & Analyzed: 06/26/20			-10	rce: 0F25004-	Sourc	Matrix Spike (P0F2608-MS2)
		80-120	91.6	36.5	562	mg/kg dry	1.12	551	Chloride
			06/26/20	Analyzed:	Prepared &	-02	rce: 0F24014-	Sourc	Matrix Spike Dup (P0F2608-MSD1)
20	3.06 20	80-120	102	11100	2720	mg/kg dry	27.2	13900	Chloride
			06/26/20	Analyzed:	Prepared &	-10	rce: 0F25004-	Sourc	Matrix Spike Dup (P0F2608-MSD2)
	1.34 20	80-120	93.0	36.5	562	mg/kg dry	1.12	559	Chloride
	1 34	80-120		5	1	-			Matrix Spike Dup (P0F2608-MSD2) Chloride

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		

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 &	z 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.

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	

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	/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			

Permian Basin Environmental Lab, L.P.

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
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:

Sun Barron

7/5/2020

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

Date:

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	





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	Fax:
12600 W County Rd 91	Project Number: PP-2061	
Midland TX, 79707	Project 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	Fax:
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		
	Perr	nian Basin F	Invironmen	tal Lab, I	L .P.						
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 EPA	/ Standard Method	ls									
Chloride	61.7	1.11	mg/kg dry	1	P0F3003	06/30/20	07/01/20	EPA 300.0			
% Moisture	10.0	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216			
Total Petroleum Hydrocarbons C6-C35	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			

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 Mana	ger: Sylwia	Reynolds					
		Al	H-2 @ 11'						
		0F26	019-02 (Soi	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environme	ntal Lab, I	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 %	75-125		P0F2907	06/29/20	07/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.0 %	75-125		P0F2907	06/29/20	07/01/20	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Method	s							
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-C3	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	1290	28.1	mg/kg dry	1	[CALC]	06/29/20	06/30/20	calc	
C6-C35									

Dean 12600 W County Rd 91 Midland TX, 79707		Project: Plains Mewbourne Toro Project Number: PP-2061 Project Manager: Sylwia Reynolds						Fax:	
			Wall @ 1 019-03 (Soi						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	mian Basin H	Environmer	ital Lab, I	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 (0)	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 %	75-125		P0F2907	06/29/20	07/01/20	EPA 8021B	S-GC
General Chemistry Parameters by EP	A / Standard Method	ds							
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	5 by EPA Method 80	015M							
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	
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					Fax:		
12600 W County Rd 91		Project Number: PP-2061							
Midland TX, 79707]	Project Mana	ger: Sylwia	Reynolds					
		NE	Wall @ 3						
			019-04 (Soi						
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>General Chemistry Parameters by EP</u> % Moisture	A / Standard Method 13.0	s 0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 801	15M							
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 %	70-1	30	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 12600 W County Rd 91 Midland TX, 79707		Proj Project Num Project Mana		1	Toro			Fax:	
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			Wall @ 1' 019-05 (Soi						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin H	Environmer	ital Lab, I	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 El	PA / Standard Methoo	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	35 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	

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.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F2907 - General Preparation (GC)										
Blank (P0F2907-BLK1)				Prepared: 0)6/29/20 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	0.114		"	0.120		95.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.2	75-125			
LCS (P0F2907-BS1)				Prepared: 0)6/29/20 Ar	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: 0	06/29/20 Ar	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: 0	06/29/20 Ar	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: 1,4-Difluorobenzene	0.114		"	0.120		94.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.8	75-125			

Permian Basin Environmental Lab, L.P.

Dean	Project: I	Plains Mewbourne Toro	Fax:
12600 W County Rd 91	Project Number: H	PP-2061	
Midland TX, 79707	Project Manager: S	Sylwia Reynolds	

Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0F2907 - General Preparation (GC	C)									
Calibration Blank (P0F2907-CCB2)				Prepared: 0)6/29/20 Ai	nalyzed: 07	/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: 0)6/29/20 At	nalyzed: 07	/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: 0)6/29/20 At	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			
Calibration Check (P0F2907-CCV2)				Prepared: 0)6/29/20 At	nalyzed: 07	/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.

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.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F2907 - General Preparation (GC)										
Calibration Check (P0F2907-CCV3)				Prepared: ()6/29/20 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)	Sou	ırce: 0F26003	-10	Prepared: 0)6/29/20 A1	nalyzed: 07	/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-0'
Ethylbenzene	0.0379	0.00100	"	0.100	ND	37.9	80-120			QM-0'
Xylene (p/m)	0.0868	0.00200		0.200	ND	43.4	80-120			QM-0'
Xylene (o)	0.0419	0.00100		0.100	ND	41.9	80-120			QM-0'
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.0781		"	0.120		65.1	75-125			<i>S-G</i> (
Matrix Spike Dup (P0F2907-MSD1)	Sou	ırce: 0F26003	-10	Prepared: 0)6/29/20 A1	nalyzed: 07	/01/20			
Benzene	0.106	0.00100	mg/kg dry	0.100	ND	106	80-120	21.5	20	QM-0
Toluene	0.0972	0.00100	"	0.100	ND	97.2	80-120	24.6	20	QM-0'
Ethylbenzene	0.0815	0.00100		0.100	ND	81.5	80-120	73.1	20	QM-0'
Xylene (p/m)	0.128	0.00200	"	0.200	ND	63.9	80-120	38.2	20	QM-0'
Xylene (o)	0.0669	0.00100	"	0.100	ND	66.9	80-120	46.0	20	QM-0'
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	Fax:
12600 W County Rd 91	Project Number:	PP-2061	
Midland TX, 79707	Project Manager:	Sylwia Reynolds	

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 (C	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: I	Plains Mewbourne Toro	Fax:
12600 W County Rd 91	Project Number: H	PP-2061	
Midland TX, 79707	Project Manager: S	Sylwia Reynolds	

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 (C	GC)									
Calibration Blank (P0G0105-CCB3)				Prepared: (07/01/20 Ar	nalyzed: 07	/02/20			
Benzene	0.00		mg/kg wet							
Toluene	0.940		"							
Ethylbenzene	0.830		"							
Xylene (p/m)	1.70		"							
Xylene (o)	0.690		"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.7	75-125			
Calibration Check (P0G0105-CCV1)				Prepared &	Analyzed:	07/01/20				
Benzene	0.0967	0.00100	mg/kg wet	0.100		96.7	80-120			
Toluene	0.0949	0.00100	"	0.100		94.9	80-120			
Ethylbenzene	0.0988	0.00100	"	0.100		98.8	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.4	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 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 &	Analyzed:	07/01/20				
Benzene	0.0981	0.00100	mg/kg wet	0.100		98.1	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.0969	0.00100	"	0.100		96.9	80-120			
Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120			
Xylene (o)	0.0996	0.00100	"	0.100		99.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.9	75-125			
Calibration Check (P0G0105-CCV3)				Prepared: (07/01/20 Ar	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		<i>98.2</i>	75-125			

Permian Basin Environmental Lab, L.P.

Ethylbenzene

Xylene (p/m)

Surrogate: 1,4-Difluorobenzene

Xylene (o)

QM-10

QM-10

QM-10

Dean	Project:	Plains Mewbourne Toro	Fax:
12600 W County Rd 91	Project Number:	PP-2061	
Midland TX, 79707	Project Manager:	Sylwia Reynolds	

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0105 - General Preparation (GC)										
Matrix Spike (P0G0105-MS1)	Sour	·ce: 0G01013	-06	Prepared: (07/01/20 Ar	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-10

..

"

..

"

0.104

0.208

0.104

0.125

0.00539

0.0263

0.0104

75.5

58.1

66.0

97.5

80-120

80-120

80-120

75-125

0.00104

0.00208

0.00104

0.0840

0.147

0.0791

0.122

Surrogate: 4-Bromofluorobenzene	0.109		"	0.125		87.1	75-125			
Matrix Spike Dup (P0G0105-MSD1)	Sour	ce: 0G01013	3-06	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
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.

Dean	Project: Plains Mewbourne Toro	Fax:
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.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F2701 - *** DEFAULT PREP ***										
Blank (P0F2701-BLK1)				Prepared: ()6/27/20 A	Analyzed: 06	/29/20			
% Moisture	ND	0.1	%							
Duplicate (P0F2701-DUP1)	Sou	rce: 0F26003-	14	Prepared: ()6/27/20 A	Analyzed: 06	/29/20			
% Moisture	ND	0.1	%		ND				20	
Duplicate (P0F2701-DUP2)	Sou	rce: 0F26010-	11	Prepared: 0)6/27/20 A	Analyzed: 06	/29/20			
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P0F2701-DUP3)	Sou	rce: 0F26010-	38	Prepared: 0)6/27/20 A	Analyzed: 06	/29/20			
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0F2701-DUP4)	Sou	rce: 0F26015-	11	Prepared: 0)6/27/20 A	Analyzed: 06	/29/20			
% Moisture	ND	0.1	%		ND				20	
Batch P0F3003 - *** DEFAULT PREP ***										
Blank (P0F3003-BLK1)				Prepared: ()6/30/20 A	Analyzed: 07	/01/20			
Chloride	ND	1.00	mg/kg wet							
LCS (P0F3003-BS1)				Prepared: 0)6/30/20 A	Analyzed: 07	/01/20			
Chloride	411	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P0F3003-BSD1)				Prepared: ()6/30/20 A	Analyzed: 07	/01/20			
Chloride	407	1.00	mg/kg wet	400		102	80-120	0.851	20	
Calibration Check (P0F3003-CCV1)				Prepared: ()6/30/20 A	Analyzed: 07	/01/20			
Chloride	19.4		mg/kg	20.0		97.0	0-200			

Dean	Project:	Plains Mewbourne Toro	Fax:
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 P0F3003 - *** DEFAULT PREP ***										
Calibration Check (P0F3003-CCV2)				Prepared: (06/30/20 A	nalyzed: 07	/01/20			
Chloride	18.7		mg/kg	20.0		93.3	0-200			
Matrix Spike (P0F3003-MS1)	Source: 0F26018-07 Pr		Prepared: (06/30/20 A	nalyzed: 07	/01/20				
Chloride	521	1.04	mg/kg dry	521	22.6	95.7	80-120			
Matrix Spike (P0F3003-MS2)	Sourc	e: 0F26022	-03	Prepared: (06/30/20 A	nalyzed: 07	/01/20			
Chloride	5040	11.4	mg/kg dry	1140	3540	132	80-120			QM-0
Matrix Spike Dup (P0F3003-MSD1)	Sourc	e: 0F26018	-07	Prepared: (06/30/20 A	nalyzed: 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)	Source: 0F26022-03		Prepared: 06/30/20 Analyzed: 07/01/20			/01/20				
Chloride	4900	11.4	mg/kg dry	1140	3540	119	80-120	2.80	20	

Dean	Project:	Plains Mewbourne Toro	Fax:	
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										
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	Fax:
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			<i>S-G</i> (
Calibration Check (P0F2903-CCV2)				Prepared &	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	/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)	Sour	ce: 0F26010	-35	Prepared: (06/29/20 A	nalyzed: 06	/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)	Sour	ce: 0F26010	-35	Prepared: (06/29/20 A	nalyzed: 06	/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.

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
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:

un Barron

7/10/2020

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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

Date:

Dean	Project	Plains Mewbourne Toro	Fax:
12600 W County Rd	1 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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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	Fax:
12600 W County Rd 91	Project Number: PP-2061	
Midland TX, 79707	Project 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	Fax:
12600 W County Rd 91	Project Number:	PP-2061	
Midland TX, 79707	Project Manager:	Jeff Kindley	

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

		0001	013-01 (30						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin H	Environme	ntal Lab, I	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	ls							
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	5 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	

Permian Basin Environmental Lab, L.P.

Dean 12600 W County Rd 91 Midland TX, 79707		Proj Project Num Project Mana		l	Toro			Fax:	
			I-1 E @ 5' 013-02 (Soi	l)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	iian Basin F	Environmen	tal 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 EP	A / 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-C3	5 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	

Permian Basin Environmental Lab, L.P.

Dean 12600 W County Rd 91	Project: Plains Mewbourne Toro Project Number: PP-2061 Project Manager: Jeff Kindley								
Midland TX, 79707		Project Mana	ger: Jeff Kir	idley					
		AF	I-1 E @ 7'						
		0G01	013-03 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environmer	ntal Lab, I	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	PA / Standard Method	s							
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	35 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	

Permian Basin Environmental Lab, L.P.

Dean 12600 W County Rd 91 Midland TX, 79707		Proj Project Num Project Mana		l	Toro			Fax:	
			-1 SE @ 3 013-06 (Soi						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin F	Environmen	ital 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 EP	A / 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-C3	5 by EPA Method 80	015M							
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	

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Dean 12600 W County Rd 91 Midland TX, 79707		5	ject: Plains M ber: PP-2061 ger: Jeff Kin	l	Toro			Fax:	
			-1 SE @ 5' 013-07 (Soi						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin H	Environmen	ital Lab, I	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	
<u>Total Petroleum Hydrocarbons C6-C</u>	35 by EPA Method 80	015M							
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	3580	142	mg/kg dry	5	[CALC]	07/02/20	07/02/20	calc	
C6-C35									

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Dean 12600 W County Rd 91 Midland TX, 79707		Proj Project Num Project Mana		l	Toro			Fax:	
			-1 SE @ 7' 013-08 (Soi						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environmen	ital 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-GC
General Chemistry Parameters by El	PA / Standard Method	ls							
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	35 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	
Surrogate: o-Terphenyl		95.1 %	70-1.	30	P0G0204	07/02/20	07/06/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3350	28.4	mg/kg dry	1	[CALC]	07/02/20	07/06/20	calc	

Dean 12600 W County Rd 91 Midland TX, 79707		Proj Project Num Project Mana		1	Toro			Fax:	
			-1 NE @ 3 013-09 (Soi						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin H	Environmer	ital Lab, 1	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 12600 W County Rd 91 Midland TX, 79707		Project: Plains Mewbourne Toro Project Number: PP-2061 Project Manager: Jeff Kindley						Fax:	
			-1 NE @ 5 013-10 (Soi						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environmer	ital Lab, I	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 EP.	A / 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-C3	5 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 12600 W County Rd 91 Midland TX, 79707		Project: Plains Mewbourne Toro Project Number: PP-2061 Project Manager: Jeff Kindley						Fax:	
			-1 NE @ 7' 013-11 (Soi						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin F	Environmen	tal 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 (0)	13.0	0.110	mg/kg dry	100	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.4 %	75-12	25	P0G0105	07/01/20	07/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		61.3 %	75-12	25	P0G0105	07/01/20	07/02/20	EPA 8021B	S-GC
General Chemistry Parameters by EP	A / Standard Metho	ds							
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 8	015M							
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 %	70-13	30	P0G0204	07/02/20	07/02/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-13	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		Proj	ect: Plains N	lewbourne	Toro			Fax:	
12600 W County Rd 91		Project Num	ber: PP-2061	l					
Midland TX, 79707	Ι	Project Mana	ger: Jeff Kin	dley					
		AH	-1 NE @ 9	,					
		0G01	013-12 (Soi	l)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environmen	tal Lab, I	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 %	75-12	25	P0G1301	07/13/20	07/13/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.7 %	75-12	25	P0G1301	07/13/20	07/13/20	EPA 8021B	
General Chemistry Parameters by EI	PA / Standard Methods	5							
% Moisture	10.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 801	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	

Permian Basin Environmental Lab, L.P.

Dean		Pro	ect: Plains N	1ewbourne	e Toro			Fax:	
12600 W County Rd 91		Project Num	ber: PP-206	l					
Midland TX, 79707]	Project Mana	ger: Jeff Kin	dley					
		AH-	1 NE @ 11	•					
			013-13 (Soi						
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA	A / Standard Method	8	Environmer						
% Moisture	12.0	0.1	%	1	P0G0202	07/02/20	07/02/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	5 by EPA Method 801	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 %	70-1	30	P0G0204	07/02/20	07/02/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-1	30	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	

Permian Basin Environmental Lab, L.P.

Dean	Project: 1	Plains Mewbourne Toro	Fax:
12600 W County Rd 91	Project Number: 1	PP-2061	
Midland TX, 79707	Project Manager: J	Jeff Kindley	

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 (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.

Dean	Project:	Plains Mewbourne Toro	Fax:
12600 W County Rd 91	Project Number:	PP-2061	
Midland TX, 79707	Project Manager:	Jeff Kindley	

Permian Basin Environmental Lab, L.P.

Batch P0G0105 - General Preparation (GC) Calibration Blank (P0G0105-CCB2) Benzine 0.330 mgkg wet Edity 0.530 * Ebilyblenzene 0.530 * Swrogate: 1,4-D0[fluorobenzene 0.113 * 0.120 93.8 75-125 Swrogate: 4-Bornofluorobenzene 0.113 * 0.120 91.4 75-125 Calibration Blank (P0G0105-CCB3) Prepared: 07/01/20 Analyzed: 07/02/20 Perspared: 07/01/20 Analyzed: 07/02/20 Benzene 0.90 mgkg wet - - - Toluene 0.940 * Elibylhenzene 0.830 - Swrogate: 4-Bornofluorobenzene 0.114 * 0.120 9.5.4 75-125 Calibration Blank (P0G0105-CCB3) Prepared: 07/01/20 Analyzed: 07/01/20 Sylene (p'm) 1.70 * Swrogate: 1,4-D0[fluorobenzene 0.114 * 0.120 9.5.4 75-125 Calibration Check (P0G0105-CCV1) Prepared: & Analyzed: 07/01/20 Swrogate: 1,4-D0[fluorobenzene 0.0949 0.0100			Reporting		Spike	Source		%REC	D.F	RPD	
Calibration Blank (P0G0105-CCB2) Prepared & Analyzed: 07/01/20 Beazene 0.330 mg/kg wet Toluene 0.680 - Edityblenzene 0.530 - Kylene (oʻm) 3.19 - Syrongate: 1/-10/fuorobenzene 0.113 - Surrogate: 1/-10/fuorobenzene 0.113 - Surrogate: 1/-10/fuorobenzene 0.110 1/120 9.1.4 75-125 Calibration Blank (P0G0105-CCB3) - <td< th=""><th>Analyte</th><th>Result</th><th>Limit</th><th>Units</th><th>Level</th><th>Result</th><th>%REC</th><th>Limits</th><th>RPD</th><th>Limit</th><th>Notes</th></td<>	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Benzene 0.330 mg/kg wet Toluene 0.680 " Ethylbenzene 0.530 " Skylene (r) 0.800 " Surrogate: 1.4:Difluorobenzene 0.113 " 0.120 93.8 75-125 Calibration Blank (P0G:0105-CCB3) Prepared: 07/01/20 Analyzed: 07/02/20 Analyzed: 07/02/20 Benzene 0.940 " 1 75-125 Calibration Blank (P0G:0105-CCB3) Prepared: 07/01/20 Analyzed: 07/02/20 Benzene 0.940 " 1 Stive (a) 0.630 " 57-125 Calibration Blank (P0G:0105-CCVB) Prepared: 07/01/20 Analyzed: 07/01/20 Benzene 0.940 " 1.10 " Sturogate: 1.4:Diftuorobenzene 0.114 " 0.120 88.7 75-125 Calibration Check (P0G:0105-CCV1) Prepared & Analyzed: 07/01/20 Benzene 0.0967 0.0010 mg/kg wet 0.100 96.4 80-120 Starogate: 1.4:Diftuorobenzene 0.0967 0.00100	Batch P0G0105 - General Preparation (GC	C)									
Toluene 0.680 * Ehlybenzene 0.530 * Kylene (p'm) 3.19 * Surrogate: 1,4-Difluorobenzene 0.113 * Surrogate: 4-Bromofluorobenzene 0.113 * Benzene 0.110 * 0.120 9.1.4 75-125 Calibration Blank (P0G0105-CCB3) Prepared: 07/01/20 Analyzet: 07/02/20 Surrogate: 4-Bromofluorobenzene 0.040 * Benzene 0.940 * * Surrogate: 4-Bromofluorobenzene 0.830 * Sylene (p'm) 1.70 * * Surrogate: 4-Bromofluorobenzene 0.830 * Surrogate: 4-Bromofluorobenzene 0.106 * * Surrogate: 7-2/25 Surrogate: 4-Bromofluorobenzene 0.106 mgk wet 0.1020 9.5.4 75-125 Surrogate: 4-Bromofluorobenzene 0.106 mgk wet 0.100 96.4 80-120 Surrogate: 4-Bromofluorobenzene 0.0100 mgk wet 0.100 96.4 80-120 Surrogate: 4-Bromofluorobenzene	Calibration Blank (P0G0105-CCB2)				Prepared &	Analyzed:	07/01/20				
Ethylbenzene 0.530 " Xylae (pín) 3.19 " Sylae (pín) 3.19 " Surogate: 1-D/Jhorobenzene 0.10 " 0.120 9.8.8 75-125 Surogate: 1-D/Jhorobenzene 0.10 " 0.120 9.1.4 75-125 Calibration Blank (POC0105-CCB3) Prepared: 07/01/20 Analyzet: 07/01/20 Nove 1 Benzene 0.00 mgk wet Nove 1	Benzene	0.330		mg/kg wet							
Xylene (n) 3.19 " Xylene (n) 0.800 " Surrogate: 1.4-Difluorobenzene 0.113 " 0.120 93.8 75-125 Calibration Blank (POG0105-CCB3) " 0.120 91.4 75-125 Benzene 0.00 mgkg wet 75-125 Toluene 0.940 " 75-125 Sylene (n) 0.70 " 75-125 Toluene 0.940 " 75-125 Sylene (n) 1.70 " 75-125 Surrogate: 4-Bronofluorobenzene 0.106 " 0.120 88.7 75-125 Surrogate: 1,4-Difluorobenzene 0.106 " 0.120 95.4 75-125 Calibration Check (POG0105-CCV1) " Prepared & Analyzei: 07/01/2 57-125 Calibration Check (POG0105-CCV1) " 0.100 96.8 80-120 Surrogate: 1,4-Difluorobenzene 0.0967 0.0010 " 0.100 96.8	Toluene	0.680		"							
Year (a) 0.800 " Surrogate: 1,4-Difluorobenzene 0.113 " 0.120 93.8 75-125 Calibration Blank (POG0105-CCB3) Prepared: 07/01/20 Analyzed: 07/02/20 Benzene 0.000 mg/kg wet Ethylbenzene 0.830 " Kylene (pfm) 1.70 " Xylene (of) 0.114 " 0.120 88.7 75-125 Surrogate: 1,4-Difluorobenzene 0.830 " " " 1.70 " " 1.70 " "	Ethylbenzene	0.530		"							
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 (P0C0105-CCB3) Prepared: 07/01/20 Analyzed: 07/02/20 Benzene 0.00 mg/kg wet " Verpared: 07/01/20 Analyzed: 07/02/20 Surrogate: 0.940 " " Verpared: 07/01/20 Analyzed: 07/02/20 Sylenc (p'm) 1.70 " " Verpared: 07/02 88.7 75-125 Surrogate: 1.40 " 0.120 95.4 75-125 Surrogate: 1.40 " 0.100 96.7 80-120 Surrogate: 1.40 " 0.120 95.4 75-125 Calibration Check (P0G0105-CCV1) Prepared & Analyzed: 07/01/20 S1.4 75-125 Surrogate: 1.40 0.0100 " 0.100 96.4 80-120	Xylene (p/m)	3.19		"							
Martogate 0.110 1.020 9.1.8 7.5-1.25 Calibration Blank (P0G0105-CCB3) Prepared: 07/01/20 Analyzed: 07/02/20 Benzene 0.00 mg/kg wet Prepared: 07/01/20 Analyzed: 07/02/20 Calibration Blank (P0G0105-CCB3) Prepared: 0.00 " Prepared: 0.01/20 Analyzed: 0.01/20 Benzene 0.000 " " Prepared: 0.01/20 Analyzed: 0.01/20 Sturrogate: 1.7.0 " " Prepared: 0.01/20 88.7 7.5-125 Sturrogate: 1.7.0 " 0.120 88.7 7.5-125 Sturrogate: 1.4-Difluorobenzene 0.010 " 0.120 88.7 7.5-125 Sturrogate: 1.4-Difluorobenzene 0.0967 0.0010 mg/kg wet 0.100 96.7 80-120 Ethylbenzene 0.09967 0.00100 mg/kg wet 0.100 96.8 80-120 Sturrogate: 1.4-Difluorobenzene 0.113 0.0200 " 0.120 95.7 75-125 Sturrogate:	Xylene (o)	0.800		"							
Cailbration Blank (POG0105-CCB3) Prepared: 07/01/20 Analyzed: 07/01/20 Analyzed: 07/01/20 Benzene 0.00 mg/kg wet Toluene 0.940 " Ethylbenzene 0.830 " Kylene (p/m) 1.70 " Syrogate: 1-Bromofluorobenzene 0.160 " Surrogate: 1-Ar-Difluorobenzene 0.114 " 0.120 88.7 7.5-125 Calibration Check (PG0105-CCV1) " 0.120 88.7 7.5-125 Calibration Check (PG0105-CCV1) " 0.120 88.7 7.5-125 Calibration Check (PG0105-CCV1) " 0.100 94.9 80-120 Storrogate: 1,4-Difluorobenzene 0.0967 0.0010 " 0.100 94.9 80-120 Ethylbenzene 0.0988 0.00100 " 0.100 98.8 80-120 Sylene (p'm) 0.139 0.00200 " 0.120 95.7 75-125 Surrogate: 1,4-Difluorobenzene 0.116 mg/kg wet 0.100 98.1 80-120	Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.8	75-125			
Benzene 0.00 mg/kg wet Toluene 0.940 " Ethylbenzene 0.830 " Xylene (p/m) 1.70 " Surrogate: 4-Bronofluorobenzene 0.106 " Surrogate: 1.4-Difluorobenzene 0.106 " Calibration Check (PGG0105-CCV1) Prepared & Analyzed: 07/01/20 Benzene 0.0967 0.00100 " Calibration Check (PGG0105-CCV1) Prepared & Analyzed: 07/01/20 Benzene 0.0967 0.00100 " Toluene 0.0949 0.00100 " 0.100 Kylene (p'm) 0.193 0.00200 " 0.200 96.4 80-120 Sturrogate: 1.4-Difluorobenzene 0.115 " 0.100 98.8 80-120 Sturrogate: 1.4-Difluorobenzene 0.116 " 0.100 98.8 80-120 Sturrogate: 1.4-Difluorobenzene 0.116 " 0.100 91.8 75-125 Sturrogate: 1.4-Difluorobenzene 0.116 " 0.120 91.8	Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.4	75-125			
Toluene 0.940 " Ethylbenzene 0.830 " Xylene (p/m) 1.70 " Surrogate: 4-Bromofluorobenzene 0.106 " 0.120 88.7 75-125 Surrogate: 1,4-Difluorobenzene 0.101 mg/kg wet 0.100 95.4 75-125 Calibration Check (PGC0105-CCV1) Prepared & Analyzed: 07/01/20 88.7 75-125 Calibration Check (PGC0105-CCV1) Prepared & Analyzed: 07/01/20 95.4 80-120 Ethylbenzene 0.0967 0.00100 mg/kg wet 0.100 94.9 80-120 Ethylbenzene 0.0949 0.00100 " 0.100 94.8 80-120 Xylene (p/m) 0.193 0.00200 " 0.200 96.4 80-120 Surrogate: 1,4-Difluorobenzene 0.115 " 0.120 95.7 75-125 Surrogate: 4-Bromofluorobenzene 0.110 " 0.120 96.4 80-120 Surrogate: 1,4-Difluorobenzene 0.110 " 0.120 95.7 75-125 Surrogate: 1,4-Difluorobenzene 0.110 mg/kg wet 0.1	Calibration Blank (P0G0105-CCB3)				Prepared: (07/01/20 Ai	nalyzed: 07	/02/20			
Ethylbenzene 0.830 " Xylene (p/m) 1.70 " Xylene (o) 0.690 " Surrogate: 4-Bromofluorobenzene 0.106 " 0.120 88.7 75-125 Calibration Check (POG0105-CCV1) " 0.120 95.4 75-125 Calibration Check (POG0105-CCV1) " Prepared & Analyzet: 07/01/20 Benzene 0.0967 0.0010 mg/kg wet 0.100 96.7 80-120 Toluene 0.0949 0.0010 " 0.100 94.9 80-120 Ethylbenzene 0.0988 0.0010 " 0.100 94.8 80-120 Styrogate: 1.4-Difluorobenzene 0.098 0.0010 " 0.100 96.4 80-120 Styrogate: 1.4-Difluorobenzene 0.115 " 0.120 95.7 75-125 Sturrogate: 1.4-Difluorobenzene 0.115 " 0.120 96.8 80-120 Sturrogate: 1.4-Difluorobenzene 0.115 0.0100 mg/kg wet 0.100 96.1 80	Benzene	0.00		mg/kg wet							
Nylene (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 (POG0105-CCV1) Prepared & Analyzed: 07/01/20 80-120 80-120 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 Sylene (p/m) 0.133 0.00200 " 0.100 98.4 80-120 Surrogate: 1,4-Difluorobenzene 0.115 " 0.120 95.7 75-125 Surrogate: 4-Bromofluorobenzene 0.116 0.0100 " 0.120 91.8 75-125 Calibration Check (POG0105-CCV2) " 0.120 91.8 75-125 75-125 Calibration Check (POG0105-CCV2) " 0.120 91.8 75-125 Chu	Toluene	0.940		"							
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 Ethylbenzene 0.0949 0.00100 " 0.100 94.9 80-120 Stylene (p/m) 0.193 0.0020 " 0.200 96.4 80-120 Sylene (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 Surrogate: 4-Bromofluorobenzene 0.110 " 0.120 91.8 75-125 Surrogate: 4-Bromofluorobenzene 0.100 mg/kg wet 0.100 98.1 80-120 Surrogate: 4-Bromofluorobenzene 0.0100 " 0.100 98.1 80-120 </td <td>Ethylbenzene</td> <td>0.830</td> <td></td> <td>"</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Ethylbenzene	0.830		"							
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 (POG0105-CCV1) Prepared & Analyzed: 07/01/20 96.7 80-120 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 Xylene (p/m) 0.193 0.00200 " 0.200 96.4 80-120 Surrogate: 1,4-Difluorobenzene 0.114 0.00100 " 0.100 104 80-120 Xylene (p/m) 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 (POG0105-CCV2) Prepared & Analyzed: 07/01/20	Xylene (p/m)	1.70		"							
Surrogate: 1.100 1.120 36.7 7.57123 Surrogate: 1.4-Difluorobenzene 0.114 " 0.120 95.4 75-125 Calibration Check (P0G0105-CCV1) Prepared & Analyzed: 07/01/20 96.7 80-120 Benzene 0.0967 0.00100 mg/kg wet 0.100 96.4 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 Surrogate: 1.4-Difluorobenzene 0.115 " 0.120 91.8 75-125 Surrogate: 1.4-Difluorobenzene 0.110 " 0.100 91.8 75-125 Surrogate: 4-Bromofluorobenzene 0.110 " 0.100 98.1 80-120 Surrogate: 4-Bromofluorobenzene 0.105 0.00100 " 0.100 98.1 80-120 Surrogate: 4-Bromofluorobenzene 0.0969 0.00100 " 0.100 <td>Xylene (o)</td> <td>0.690</td> <td></td> <td>"</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Xylene (o)	0.690		"							
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 Surrogate: 4-Bromofluorobenzene 0.110 mg/kg wet 0.100 98.1 80-120 Benzene 0.0981 0.00100 " 0.100 98.1 80-120 Burdene 0.0969 0.00100 " 0.100 96.9 80-120 Yulene (p'm) 0.208 0.00200 <td'< td=""><td>Surrogate: 4-Bromofluorobenzene</td><td>0.106</td><td></td><td>"</td><td>0.120</td><td></td><td>88.7</td><td>75-125</td><td></td><td></td><td></td></td'<>	Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.7	75-125			
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 Surrogate: 1.4-Difluorobenzene 0.114 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 0.0059 0.00100 " 0.100 96.9 80-120 Ethylbenzene 0.0969 0.00100 " 0.100 96.9 80-120 Xylene (o') 0.208 0.00200	Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.4	75-125			
Toluene0.09490.00100"0.10094.980-120Ethylbenzene0.09880.00100"0.10098.880-120Xylene (p/m)0.1930.00200"0.20096.480-120Xylene (o)0.1040.00100"0.10010480-120Surrogate: 1,4-Difluorobenzene0.115"0.12095.775-125Surrogate: 4-Bromofluorobenzene0.110"0.12091.875-125Calibration Check (POG0105-CCV2)Prepared & Analyzed: 07/01/2080-12010480-120Benzene0.09810.00100mg/kg wet0.10098.180-120Toluene0.1050.00100"0.10010580-120Ethylbenzene0.09690.00100"0.10096.980-120Xylene (p/m)0.2080.00200"0.20010480-120Xylene (o)0.09960.00100"0.10099.680-120Surrogate: 1,4-Difluorobenzene0.115"0.20010480-120Xylene (o)0.09960.00100"0.10099.680-120Surrogate: 1,4-Difluorobenzene0.115"0.12095.975-125	Calibration Check (P0G0105-CCV1)				Prepared &	Analyzed:	07/01/20				
Induction0.00400.0010010.00094.500-120Ethylbenzene0.09880.00100"0.10098.880-120Xylene (p/m)0.1930.00200"0.20096.480-120Xylene (o)0.1040.00100"0.10010480-120Surrogate: 1,4-Difluorobenzene0.115"0.12095.775-125Surrogate: 4-Bromofluorobenzene0.110"0.12091.875-125Calibration Check (POG0105-CCV2)Prepared & Analyzed: 07/01/20Benzene0.09810.00100mg/kg wet0.10098.180-120Toluene0.1050.00100"0.10096.980-120Kylene (p/m)0.2080.00200"0.20010480-120Xylene (p/m)0.2080.00200"0.20010480-120Xylene (o)0.09960.00100"0.10099.680-120Surrogate: 1,4-Difluorobenzene0.115"0.12095.975-125	Benzene	0.0967	0.00100	mg/kg wet	0.100		96.7	80-120			
Linyneinzene 0.0000 0.0000 0.100 0.000 96.3 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 (POG0105-CCV2) Prepared & Analyzed: 07/01/20 98.1 80-120 Benzene 0.0981 0.00100 mg/kg wet 0.100 98.1 80-120 Toluene 0.105 0.00100 " 0.100 96.9 80-120 Ethylbenzene 0.0969 0.00100 " 0.200 104 80-120 Xylene (p/m) 0.208 0.00200 " 0.200 104 80-120 Surrogate: 1,4-Difluorobenzene 0.115 " 0.120 95.9 75-125	Toluene	0.0949	0.00100	"	0.100		94.9	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 96.9 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 Surrogate: 1,4-Difluorobenzene 0.0996 0.00100 " 0.100 96.9 80-120 Surrogate: 1,4-Difluorobenzene 0.105 0.00100 " 0.100 99.6 80-120 Surrogate: 1,4-Difluorobenzene 0.115 " 0.120 95.9 75-125	Ethylbenzene	0.0988	0.00100	"	0.100		98.8	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 Surrogate: 1,4-Difluorobenzene 0.0996 0.00100 " 0.200 104 80-120 Surrogate: 1,4-Difluorobenzene 0.105 0.0100 " 0.100 99.6 80-120 Surrogate: 1,4-Difluorobenzene 0.115 " 0.120 95.9 75-125	Xylene (p/m)	0.193	0.00200	"	0.200		96.4	80-120			
Surrogate: 1,4-Difluorobenzene 0.113 0.120 9.7 75-125 Surrogate: 4-Bromofluorobenzene 0.110 " 0.120 91.8 75-125 Calibration Check (P0G0105-CCV2) Prepared & Analyzed: 07/01/20 Prepared & Analyzed: 07/01/20 0.00100 98.1 80-120 Toluene 0.0961 0.00100 " 0.100 96.9 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	Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
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 Surrogate: 1,4-Difluorobenzene 0.115 " 0.100 99.6 80-120	Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.7	75-125			
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	Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.8	75-125			
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	Calibration Check (P0G0105-CCV2)				Prepared &	Analyzed:	07/01/20				
Initial Control 0.005 0.00100 0.100 105 00120 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	Benzene	0.0981	0.00100	mg/kg wet	0.100		98.1	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	Toluene	0.105	0.00100	"	0.100		105	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	Ethylbenzene	0.0969	0.00100	"	0.100		96.9	80-120			
Surrogate: 1,4-Difluorobenzene 0.115 " 0.120 95.9 75-125	Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120			
5.170 5.59 15-125	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			
	Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.4	75-125			

Permian Basin Environmental Lab, L.P.

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

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 (G	C)									
Calibration Check (P0G0105-CCV3)				Prepared:	07/01/20 Ai	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	rce: 0G01013	-06	Prepared:	07/01/20 Ai	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	rce: 0G01013	-06	Prepared:	07/01/20 Ai	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.

Dean	Project:	Plains Mewbourne Toro	Fax:
12600 W County Rd 91	Project Number:	PP-2061	
Midland TX, 79707	Project Manager:	Jeff Kindley	

Organics by GC - Quality Control

Permian	Basin	Environmental	Lab,	L.P.
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		D		G., 1	C		0/ D EC		DPD	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G1301 - General Preparation (GC)										
Blank (P0G1301-BLK1)				Prepared &	Analyzed:	07/13/20				
Benzene	ND	0.00100	mg/kg wet	110puilla ci		01110120				
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			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		92.0	75-125			

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:	Jeff Kindley	

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)									
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 8	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.

Dean	Project:	Plains Mewbourne Toro	Fax:
12600 W County Rd 91	Project Number:	PP-2061	
Midland TX, 79707	Project Manager:	Jeff Kindley	

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 (GC)										

Matrix Spike Dup (P0G1301-MSD1)	Sour	rce: 0G13005	5-01	Prepared:	07/13/20 An	alyzed: 07	7/14/20			
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			

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:	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 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 &	د Analyzed:	07/02/20				
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P0G0202-DUP3)	Sou	rce: 0G01004-	-01	Prepared &	د Analyzed:	07/02/20				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P0G0202-DUP4)	Sou	rce: 0G01009-	-05	Prepared &	د Analyzed:	07/02/20				
% Moisture	10.0	0.1	%		13.0			26.1	20	
Duplicate (P0G0202-DUP5)	Sou	rce: 0G01011-	01	Prepared &	k Analyzed:	07/02/20				
% Moisture	5.0	0.1	%		7.0			33.3	20	
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	
Duplicate (P0G0202-DUP8)	Sou	rce: 0G01013-	-06	Prepared &	د Analyzed:	07/02/20				
% Moisture	6.0	0.1	%	1	4.0			40.0	20	

Dean 12600 W County Rd 91 Midland TX, 79707		P Project Nu Project Ma		Fa	к:					
General Chem	•	ameters by aian Basin	•			_	lity Cont	trol		
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0202 - *** DEFAULT PREP ***										
Duplicate (P0G0202-DUP9)	Sou	rce: 0G01013	8-14	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 &	Analyzed:	07/04/20				
Chloride	0.00		mg/kg wet							
Calibration Check (P0G0401-CCV1)				Prepared &	Analyzed:	07/04/20				
Chloride	18.8		mg/kg	20.0		94.2	0-200			
Calibration Check (P0G0401-CCV2)				Prepared &	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	Fax:
12600 W County Rd 91	Project Number:	PP-2061	
Midland TX, 79707	Project 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 P0G0401 - *** DEFAULT PREP ***										
Matrix Spike (P0G0401-MS2)	Sou	rce: 0G01011	-10	Prepared &	Analyzed:	07/04/20				
Chloride	5840	10.4	mg/kg dry	1040	4730	106	80-120			
Matrix Spike Dup (P0G0401-MSD1)	Sou	rce: 0G01009	9-10	Prepared &	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 &	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 &	Analyzed:	07/07/20				
Chloride	ND	1.00	mg/kg wet							
LCS (P0G0702-BS1)				Prepared &	Analyzed:	07/07/20				
Chloride	397	1.00	mg/kg wet	400		99.2	80-120			
LCS Dup (P0G0702-BSD1)				Prepared &	z Analyzed:	07/07/20				
Chloride	397	1.00	mg/kg wet	400		99.2	80-120	0.0454	20	
Calibration Blank (P0G0702-CCB1)				Prepared &	Analyzed:	07/07/20				
Chloride	0.00		mg/kg wet	÷	-					
Calibration Check (P0G0702-CCV1)				Prepared &	Analyzed:	07/07/20				
Chloride	18.8		mg/kg	20.0		94.1	0-200			
Calibration Check (P0G0702-CCV2)				Prepared &	z Analyzed:	07/07/20				
Chloride	18.9		mg/kg	20.0	•	94.4	0-200			
Dean	Project: Plains Mewbourne Toro	Fax:								
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12600 W County Rd 91	Project Number: PP-2061									
Midland TX, 79707	Project 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)	Source: 0G01013-08 P		Prepared & Analyzed: 07/07/20							
Chloride	561	1.14	mg/kg dry	568	29.2	93.6	80-120			
Matrix Spike (P0G0702-MS2)	Sourc	e: 0G02002	-03	Prepared & Analyzed: 07/07/20						
Chloride	1680	1.11	mg/kg dry	778	824	110	80-120			
Matrix Spike Dup (P0G0702-MSD1)	Sourc	e: 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)	Source: 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	Fax:
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Midland TX, 79707	Project Manager: Jeff Kindley	

Permian Basin Environmental Lab, L.P.

	D I	Reporting	** *	Spike	Source	AVDEC	%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		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 At	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	Fax:
12600 W County Rd 91	Project Number:	PP-2061	
Midland TX, 79707	Project Manager:	Jeff Kindley	

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	/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)	Sour	ce: 0G01012	2-01	Prepared:	07/02/20 A	nalyzed: 07	/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)	Sour	ce: 0G01012	2-01	Prepared:	07/02/20 A	nalyzed: 07	/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-0
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	Fax:	
12600 W County Rd 91	Project Number:	PP-2061		
Midland TX, 79707	Project Manager:	Jeff Kindley		

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0204 - TX 1005										
LCS Dup (P0G0204-BSD1)				Prepared &	& 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 &	& 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 & 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	irce: 0G02003	3-01	Prepared &	& 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-0
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			

50.0

52.0

Permian Basin Environmental Lab, L.P.

Surrogate: o-Terphenyl

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.

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70-130

Dean	Project:	Plains Mewbourne Toro	Fax:	
12600 W County Rd 91	Project Number:	PP-2061		
Midland TX, 79707	Project Manager:	Jeff Kindley		

Permian Basin Environmental Lab, L.P.

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

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:	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:

Bun Barron

Date:

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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

7/15/2020

Dean	Project:	Plains Mewbourne Toro	Fax:
12600 W County Rd 91	Project Number:	PP-2061	
Midland TX, 79707	Project Manager:	Jeff Kindley	

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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.

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

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

				<i>,</i>					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin F	Invironmen	tal Lab, I	L.P.				
General Chemistry Parameters by EPA	/ Standard Methods	8							
% Moisture	9.0	0.1	%	1	P0G1501	07/15/20	07/15/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	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	
<u>>C28-C35</u>	213	27.5	mg/kg dry	1	P0G1411	07/14/20	07/14/20	TPH 8015M	
Surrogate: 1-Chlorooctane		88.0 %	70-1.	30	P0G1411	07/14/20	07/14/20	TPH 8015M	
Surrogate: o-Terphenyl		99.5 %	70-1.	30	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	

Permian Basin Environmental Lab, L.P.

Dean		Proj	ect: Plains N	/lewbourne	Toro			Fax:	
12600 W County Rd 91]	Project Num	ber: PP-206	1					
Midland TX, 79707	Р	roject Mana	ger: Sylwia	Reynolds					
		NEV	WALL @	7'					
			010-02 (Soi						
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA			Environmer	ital Lab, 1	L.P.				
% 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	5M							
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 %	70-1	30	P0G1411	07/14/20	07/14/20	TPH 8015M	
Surrogate: o-Terphenyl		94.0 %	70-1	30	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		Pro	ect: Plains N	Aewbourne	Toro			Fax:	
12600 W County Rd 91		Project Num	ber: PP-206	1					
Midland TX, 79707]	Project Mana	ger: Sylwia	Reynolds					
		Al	H-1 @ 13'						
			010-03 (Soi	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EP. % Moisture	<u>A / Standard Method</u> 5.0	s 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 %	70-1	30	P0G1411	07/14/20	07/14/20	TPH 8015M	
Surrogate: o-Terphenyl		97.2 %	70-1	30	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		Proj	ect: Plains N	Aewbourne	e Toro			Fax:	
12600 W County Rd 91		Project Num	ber: PP-206	1					
Midland TX, 79707]	Project Mana	ger: Sylwia	Reynolds					
		Al	H-2 @ 13'						
			010-05 (Soi	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EP. % Moisture	<u>A / Standard Method</u> 4.0	s 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	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 %	70-1	30	P0G1411	07/14/20	07/14/20	TPH 8015M	
Surrogate: o-Terphenyl		<i>93</i> .7 %	70-1	30	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	Fax:
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 P0G1501 - *** DEFAULT PREP ***										
Blank (P0G1501-BLK1)				Prepared &	Analyzed:	07/15/20				
% Moisture	ND	0.1	%							
Blank (P0G1501-BLK2)				Prepared &	Analyzed:	07/15/20				
% Moisture	ND	0.1	%							
Blank (P0G1501-BLK3)				Prepared &	Analyzed:	07/15/20				
% Moisture	ND	0.1	%							
Duplicate (P0G1501-DUP1)	Sou	rce: 0G14002-	•04	Prepared &	Analyzed:	07/15/20				
% Moisture	9.0	0.1	%		10.0			10.5	20	
Duplicate (P0G1501-DUP2)	Sou	rce: 0G14001-	•05	Prepared &	Analyzed:	07/15/20				
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P0G1501-DUP3)	Sou	rce: 0G14001-	-20	Prepared &	Analyzed:	07/15/20				
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P0G1501-DUP4)	Sou	rce: 0G14003-	-10	Prepared &	Analyzed:	07/15/20				
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0G1501-DUP5)	Sou	rce: 0G14005-	02	Prepared &	Analyzed:	07/15/20				
% Moisture	4.0	0.1	%	-	3.0			28.6	20	

Permian Basin Environmental Lab, L.P.

Dean	Project: Plains Mew	bourne Toro	Fax:
12600 W County Rd 91	Project Number: PP-2061		
Midland TX, 79707	Project Manager: Sylwia Reyr	nolds	

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										
Blank (P0G1411-BLK1)				Prepared &	Analyzed:	07/14/20				
C6-C12	ND	25.0	mg/kg wet							
>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	Fax:
12600 W County Rd 91	Project Number:	PP-2061	
Midland TX, 79707	Project Manager:	Sylwia Reynolds	

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	//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	//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-0
Surrogate: 1-Chlorooctane	98.7		"	101		97.7	70-130			
Surrogate: o-Terphenyl	48.3		"	50.5		95.7	70-130			

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	

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

Duplicate Dup

Sun Barron

Report Approved By:

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

7/15/2020

Date:

Dean	Project: Plains Mewbourne Toro	Fax:
12600 W County Rd 91	Project Number: PP-2061	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

pon Hecept GF47	Temperature () Received: ().(Adjusted:	Time (CSO)		113/20							and by PBEL	Appended by PB	Time	. Ti	Date		Ÿ.	Relinquished by:
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anet(s) size visit	caled on containeds) Custody seals on containeds) Custody seals on cooled(s)	Time	Date									Received by:		Ч С С Ч	07/13/26		Ante	Relinguished t
NA /	Laboratory Comments: Sample Codighers Intern VOCs Free of Headspace?	A	うろう	mysle dewon	Sing		en vert	ŝ	õ	2500	TOTAL TIPH Z	and/on to	ତ ପର୍ଜ୍ଣୀ	را ه ا	ten Derleron	TPH D	uctions: * 工下	A Special Instructions: 🗲
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RUSH TAT (Pre-Schedule) 24, Standard TAT	BTEX 8021B/5030 or BTEX 820	NP≂Non-Potable Specify Other TPH: TX 1005 TX 1006 Anions (Ci, SO4, Alkalinity)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid	None Other (Specify)	NaOH Na ₂ S ₂ O ₃	H₂SO₄	нсі	HNO ₃	Tota) #. of Containers	Field Filtered	Time Sampled	Date Sampled	Ending Depth	Beginning Depth		FIELD CODE	FIELD	LAB # (lab dee only)
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Phone: 432-686-7235	Pho		עי	<i>REQUEST</i> Permian Basin Environmental Lab, LP 10014 S. County Road 1213	<i>REQUEST</i> Permian Basin Environmental 10014 S. County Road 1213	riron		ST Cou	A S.	S RE Pern 1001	D ANALYSI	CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Permian Bas 10014 S. Co	ΓΟΡΥ	cus	CHAIN OF		BBLA	Ę

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

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

		0001	000 01 (50	,					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	nian Basin F	Invironmer	ntal 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		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 /	Standard 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 I	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	

Permian Basin Environmental Lab, L.P.

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Mewbourne Toro Project Number: PP-2061 Project Manager: Sylwia Reynolds						Fax:		
			H-2 @ 14' 008-02 (Soi	I)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin H	Environmen	tal 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		93.9 %	75-12	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.0 %	75-12	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard 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 12600 W County Rd 91 Midland TX, 79707		Project: Plains Mewbourne Toro Project Number: PP-2061 Project Manager: Sylwia Reynolds							
		B	H-1 @ 4' 008-03 (Soil	<u> </u>					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin H	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		98.2 %	75-12	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.3 %	75-12	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	ls							
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	35 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 %	70-13	80	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-13	80	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 12600 W County Rd 91 Midland TX, 79707		Project: Plains Mewbourne Toro Project Number: PP-2061 Project Manager: Sylwia Reynolds							
			l NSW @ 2 008-04 (Soil						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin H	Environment	tal Lab, I	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 %	75-12	5	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.4 %	75-12	5	P0H0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ds							
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	
Total Petroleum Hydrocarbons C6-C35 I	oy EPA Method 8	015M							
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 %	70-13	0	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-13	0	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 12600 W County Rd 91 Midland TX, 79707		Project: Plains Mewbourne Toro Project Number: PP-2061 Project Manager: Sylwia Reynolds							
			l ESW @ 2 008-05 (Soi						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin H	Environmen	tal Lab, I	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	P0H0302	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 /	Standard Method	ls							
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 h	y EPA 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	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	08/03/20	08/03/20	calc	

Dean 12600 W County Rd 91	Project: Plains Mewbourne Toro Project Number: PP-2061							Fax:	
Midland TX, 79707		Project Mana	ger: Sylwia R	eynolds					
		BH-1	WSW @ 2	,					
		0G31	008-06 (Soil)						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin H	Environment	al Lab, I	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 %	75-12.	5	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.8 %	75-12.	5	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	by EPA Method 8(015M							
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 %	70-13)	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-13)	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 12600 W County Rd 91 Midland TX, 79707		Project: Plains Mewbourne Toro Project Number: PP-2061 Project Manager: Sylwia Reynolds						Fax:		
		BH-	1 SSW @ . 008-07 (So	3'						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
	Per	mian Basin I	Environme	ntal Lab, 1	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 %	75-1	25	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 El	PA / Standard Metho	ds								
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-C	35 by EPA Method 8	015M								
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 12600 W County Rd 91 Midland TX, 79707	Project: Plains Mewbourne Toro Project Number: PP-2061 Project Manager: Sylwia Reynolds							Fax:	
			SW @ 2' 008-08 (Soi	I)					
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	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 (0)	0.00170	0.00100	mg/kg dry	1	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.6 %	75-12	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.6 %	75-12	25	P0H0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Method	ls							
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-C3	35 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 12600 W County Rd 91 Midland TX, 79707		Project: Plains Mewbourne Toro Project Number: PP-2061 Project Manager: Sylwia Reynolds							
			SW @ 8' 008-09 (Soil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin H	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	5	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.2 %	75-12	5	P0H0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard 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	oy 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	0	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-13	0	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 12600 W County Rd 91 Midland TX, 79707	Project: Plains Mewbourne Toro Project Number: PP-2061 Project Manager: Sylwia Reynolds							Fax:	
			/SW @ 2' 008-10 (Soil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin H	Environment	al Lab, I	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 %	75-12	5	P0H0302	08/03/20	08/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.7 %	75-12	5	P0H0302	08/03/20	08/03/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
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	oy EPA Method 8()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 %	70-13	0	P0H0306	08/03/20	08/03/20	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-13	0	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	Fax:
12600 W County Rd 91	Project Number:	PP-2061	
Midland TX, 79707	Project Manager:	Sylwia Reynolds	

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 P0H0302 - General Preparation (G	C)									
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		"							
Xylene (p/m)	0.720		"							
Xylene (o)	0.310		"							
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.1	75-125			

Dean	Project:	Plains Mewbourne Toro	Fax:
12600 W County Rd 91	Project Number:	PP-2061	
Midland TX, 79707	Project Manager:	Sylwia Reynolds	

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 P0H0302 - General Preparation (GC)										
Calibration Check (P0H0302-CCV1)				Prepared &	Analyzed:	08/03/20				
Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.0990	0.00100		0.100		99.0	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.210	0.00200	"	0.200		105	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
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	rce: 0G31008	8-01	Prepared &	Analyzed:	08/03/20				
Benzene	0.0848	0.00100	mg/kg dry	0.109	ND	78.0	80-120			QM-07
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	rce: 0G31008	6-01	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			

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	

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 & Analyz			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)	Source: 0G30014-01			Prepared &	Analyzed:	08/04/20				
% Moisture	10.0	0.1	%	10.0				0.00	20	
Duplicate (P0H0402-DUP2)	Source: 0G31001-06			Prepared &	Analyzed:	08/04/20				
% Moisture	2.0	0.1	%	2.0				0.00	20	
Duplicate (P0H0402-DUP3)	Source: 0G31007-02		Prepared & Analyzed: 08/04/20							
% Moisture	8.0	0.1	%	8.0			0.00	20		
Duplicate (P0H0402-DUP4)	Source: 0G31008-05		Prepared & Analyzed: 08/04/20							
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0H0402-DUP5)	Source: 0H03007-03		Prepared & Analyzed: 08/04/20							
% Moisture	7.0	0.1	%	7.0			0.00	20		
Duplicate (P0H0402-DUP6)	Sou	rce: 0H03007-	-13	Prepared &	Analyzed:	08/04/20				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P0H0402-DUP7)	Sou	rce: 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	Fax:
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 At	nalyzed: 08	/08/20			
Chloride	399	1.00	mg/kg wet	400		99.8	80-120			
LCS Dup (P0H0705-BSD1)				Prepared: (08/07/20 At	nalyzed: 08	/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 At	nalyzed: 08	/08/20			
Chloride	20.4		mg/kg	20.0		102	0-200			
Calibration Check (P0H0705-CCV2)				Prepared: (08/07/20 At	nalyzed: 08	/08/20			
Chloride	20.4		mg/kg	20.0		102	0-200			
Calibration Check (P0H0705-CCV3)				Prepared: (08/07/20 At	nalyzed: 08	/08/20			
Chloride	19.7		mg/kg	20.0		98.6	0-200			
Matrix Spike (P0H0705-MS1)	Sou	ce: 0G31002	2-02	Prepared: (08/07/20 At	nalyzed: 08	/08/20			
Chloride	16800	54.3	mg/kg dry	5430	11100	105	80-120			
Matrix Spike (P0H0705-MS2)	Sou	rce: 0G31007	-03	Prepared: (08/07/20 At	nalyzed: 08	/08/20			
Chloride	2320	5.43	mg/kg dry	543	1780	101	80-120			
Matrix Spike Dup (P0H0705-MSD1)	Sou	ce: 0G31002	2-02	Prepared: (08/07/20 At	nalyzed: 08	/08/20			
Chloride	16800	54.3	mg/kg dry	5430	11100	105	80-120	0.0226	20	
Matrix Spike Dup (P0H0705-MSD2)	Sou	rce: 0G31007	-03	Prepared: (08/07/20 At	nalyzed: 08	/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			

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	

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 &	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 A	nalyzed: 08	/09/20				
Chloride	19.8		mg/kg	20.0		99.0	0-200				
Matrix Spike (P0H0803-MS1)	Sour	ce: 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)	Sour	ce: 0H03007	-05	Prepared: (08/08/20 A	nalyzed: 08	/09/20				
Chloride	8820	26.0	mg/kg dry	2600	5920	111	80-120				
Matrix Spike Dup (P0H0803-MSD1)	Sour	ce: 0G31008	8-07	Prepared &	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)	Sour	ce: 0H03007	-05	Prepared: (08/08/20 A	nalyzed: 08	/09/20				
Chloride	8530	26.0	mg/kg dry	2600	5920	100	80-120	3.37	20		

Dean	Project:	Plains Mewbourne Toro	Fax:	
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 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	Fax:	
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 P0H0306 - TX 1005										
Calibration Check (P0H0306-CCV3)				Prepared:	08/03/20 A	nalyzed: 08	3/04/20			
C6-C12	465	25.0	mg/kg wet	500		93.0	85-115			
>C12-C28	517	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	51.0		"	50.0		102	70-130			
Matrix Spike (P0H0306-MS1)	Sou	rce: 0H03006	5-03	Prepared:	08/03/20 A	nalyzed: 08	3/04/20			
C6-C12	1050	25.8	mg/kg dry	1030	13.5	101	75-125			
>C12-C28	1990	25.8	"	1030	861	110	75-125			
Surrogate: 1-Chlorooctane	122		"	103		119	70-130			
Surrogate: o-Terphenyl	65.7		"	51.5		127	70-130			
Matrix Spike Dup (P0H0306-MSD1)	Sou	rce: 0H03006	5-03	Prepared:	08/03/20 A	nalyzed: 08	3/04/20			
C6-C12	1050	25.8	mg/kg dry	1030	13.5	101	75-125	0.134	20	
>C12-C28	1730	25.8	"	1030	861	84.3	75-125	26.4	20	R
Surrogate: 1-Chlorooctane	122		"	103		119	70-130			
Surrogate: o-Terphenyl	63.9		"	51.5		124	70-130			

Permian Basin Environmental Lab, L.P.

De	ean	Project:	Plains Mewbourne Toro	Fax:
12	600 W County Rd 91	Project Number:	PP-2061	
M	idland 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

Report Approved By:

Sun Barron

Date: 8/10/2020

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

D	Dean	Project:	Plains Mewbourne Toro	Fax:
1	2600 W County Rd 91	Project Number:	PP-2061	
N	Aidland TX, 79707 P	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 by OCD: 7/18/2022 2:01:29 PM

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

D	ean	Project:	Plains Mewbourne Toro	Fax:
12	2600 W County Rd 91 P	roject Number:	PP-2061	
М	idland TX, 79707 Pr	oject Manager:	Sylwia Reynolds	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 SSW @ 3'	0I04004-01	Soil	09/03/20 07:19	09-04-2020 10:09
AH-1 SE @ 8'	0I04004-02	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	Fax:
12600 W County Rd 91	Project Number:	PP-2061	
Midland TX, 79707	Project Manager:	Sylwia Reynolds	

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

		0101	102) 10-+00	-)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Peri	nian Basin I	Invironme	ntal 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	P010408	09/04/20	09/04/20	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Method	ds							
% Moisture	1.0	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	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	

Permian Basin Environmental Lab, L.P.

Dean		Proj	ect: Plains N	/lewbourne	Toro			Fax:	
12600 W County Rd 91		Project Num	ber: PP-206	1					
Midland TX, 79707	I	Project Mana	ger: Sylwia	Reynolds					
		AH	-1 SE @ 8	,					
			004-02 (Soi						
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EP. % Moisture	A / Standard Methods 8.0	s 0.1	%	1	P0I0802	09/08/20	09/08/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3						09/00/20	07/08/20		
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 %	70-1	30	P0I0406	09/04/20	09/04/20	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-1	30	P0I0406	09/04/20	09/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	13200	136	mg/kg dry	5	[CALC]	09/04/20	09/04/20	calc	

Dean		Proj	ect: Plains N	Aewbourne	e Toro			Fax:	
12600 W County Rd 91		5	ber: PP-206						
Midland TX, 79707			ger: Sylwia						
		AH	-1 SE @ 9	,					
			004-03 (Soi						
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>General Chemistry Parameters by EPA</u> % Moisture	<u>/ Standard Methods</u> 9.0	0.1	%	1	P0I0801	09/08/20	09/08/20	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	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 %	70-1	30	P0I0406	09/04/20	09/04/20	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-1	30	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	

Dean	Project: Plains Mewbourne Toro	Fax:
12600 W County Rd 91	Project Number: PP-2061	
Midland TX, 79707	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 P0I0408 - General Preparation (GC)										
Blank (P0I0408-BLK1)				Prepared &	Analyzed:	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 &	Analyzed:	09/04/20				
Benzene	0.108	0.00100	mg/kg wet	0.100		108	70-130			
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 &	Analyzed:	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 &	Analyzed:	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			

Dean	Project: Plains Mewbourne Toro	Fax:
12600 W County Rd 91	Project Number: PP-2061	
Midland TX, 79707	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 P0I0408 - General Preparation (G	C)									
Calibration Blank (P0I0408-CCB2)				Prepared &	Analyzed:	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 &	Analyzed:	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 &	Analyzed:	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 &	Analyzed:	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			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.5	75-125			

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	

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

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
Xylene (o)	0.0358	0.00101	"	0.101	0.00378	31.7	80-120	8.20	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.0994		"	0.121		82.0	75-125			
			"	0.121		95.1	75-125			

Permian Basin Environmental Lab, L.P.

Dean	Project: Plain	ins Mewbourne Toro	Fax:
12600 W County Rd 91	Project Number: PP-2	2061	
Midland TX, 79707	Project Manager: Sylv	wia Reynolds	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Anaiyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0I0801 - *** DEFAULT PREP ***										
Blank (P0I0801-BLK1)				Prepared &	Analyzed:	09/08/20				
% Moisture	ND	0.1	%							
Duplicate (P0I0801-DUP1)	Sou	rce: 0104007-0)5	Prepared &	Analyzed:	09/08/20				
% Moisture	6.0	0.1	%		8.0			28.6	20	R
Duplicate (P0I0801-DUP2)	Sou	rce: 0104008-0)1	Prepared &	Analyzed:	09/08/20				
% Moisture	1.0	0.1	%		1.0			0.00	20	
Batch P010802 - *** DEFAULT PREP ***										
Blank (P0I0802-BLK1)				Prepared &	Analyzed:	09/08/20				
% Moisture	ND	0.1	%							
Blank (P0I0802-BLK2)				Prepared &	Analyzed:	09/08/20				
% Moisture	ND	0.1	%							
Blank (P010802-BLK3)				Prepared &	Analyzed:	09/08/20				
% Moisture	ND	0.1	%							
Blank (P010802-BLK4)				Prepared &	Analyzed:	09/08/20				
% Moisture	ND	0.1	%	*						
Blank (P010802-BLK5)				Prepared &	Analyzed:	09/08/20				
% Moisture	ND	0.1	%							
Duplicate (P0I0802-DUP1)	Sou	rce: 0103016-0)5	Prepared &	Analyzed:	09/08/20				
% Moisture	3.0	0.1	%		4.0			28.6	20	R.

Dean	Project: Plains Mewbou	ırne Toro	Fax:
12600 W County Rd 91	Project Number: PP-2061		
Midland TX, 79707	Project Manager: Sylwia Reynol	ds	

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 P0I0802 - *** DEFAULT PREP ***										
Duplicate (P0I0802-DUP2)	Sou	Source: 0103016-15		Prepared &	Analyzed:	: 09/08/20				
% Moisture	5.0	0.1	%	5.0				0.00	20	
Duplicate (P010802-DUP3)	Source: 0103017-11 Pre		Prepared &	Analyzed:	: 09/08/20					
% Moisture	11.0	0.1	%		10.0			9.52	20	
Duplicate (P010802-DUP4)	Source: 0103017-21 Pro		Prepared &	Analyzed:	: 09/08/20					
% Moisture	11.0	0.1	%	10.0				9.52	20	
Duplicate (P010802-DUP5)	Sou	rce: 0I03017-3	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)	Source: 0104003-03		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	

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	

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 (P010406-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		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 &	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	Fax:
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	ce: 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-0'
Surrogate: 1-Chlorooctane	124		"	101		123	70-130			
Surrogate: o-Terphenyl	56.8		"	50.5		113	70-130			
Matrix Spike Dup (P0I0406-MSD1)	Sour	ce: 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-0'
Surrogate: 1-Chlorooctane	107		"	101		106	70-130			
Surrogate: o-Terphenyl	57.3		"	50.5		113	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-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:

Sun Barron

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.

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.

Date:

Dean	Project: Plains Mewbourne Toro	Fax:
12600 W County Rd 91	Project Number: PP-2061	
Midland TX, 79707	Project Manager: Sylwia Reynolds	

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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: 0I16014



NELAP/TCEQ # T104704516-17-8

Report Date: 09/17/20

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
BH-1 SSW @ 4'	0I16014-01	Soil	09/16/20 10:15	09-16-2020 15:25

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	

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

		0110	014-01 (50)	1)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Perm	ian Basin I	Environme	ntal Lab, 1	L. P.				
General Chemistry Parameters by EPA /	Standard Methods	5							
% Moisture	6.0	0.1	%	1	P0I1701	09/17/20	09/17/20	ASTM D2216	
<u>Total Petroleum Hydrocarbons C6-C35 b</u>	y EPA Method 801	15M							
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 %	70-1	30	P011605	09/16/20	09/17/20	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-1	30	P011605	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	

Permian Basin Environmental Lab, L.P.

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	

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 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: 0I16005-0	4	Prepared &	Analyzed:	09/17/20				
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P0I1701-DUP4)	Sour	·ce: 0I16016-0	3	Prepared &	Analyzed:	09/17/20				
% Moisture	5.0	0.1	%		5.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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	

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: ()9/16/20 Ai	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		<i>88.3</i>	70-130			
LCS (P0I1605-BS1)				Prepared: ()9/16/20 Ai	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: ()9/16/20 Ai	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: ()9/16/20 Ai	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: ()9/16/20 Ai	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.

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	

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										
Calibration Check (P0I1605-CCV1)				Prepared: (09/16/20 At	nalyzed: 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 At	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			

Dean

Midland TX, 79707

Notes and Definitions

Project Manager: Sylwia Reynolds

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

un Barron

Report Approved By:

Date:

9/17/2020

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

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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

Dean	Project:	Plains Mewbourne Toro
12600 W County Rd 91	Project Number:	PP-21199
Midland TX, 79707	Project 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.

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

AH 1(A) @ 5'

1J13006-01 (Soil)

	.	n							
Amelada	Limit	Repo	-						
Analyte	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	nods						
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 I	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	

Permian Basin Environmental Lab, L.P.

Dean 12600 W County Rd 91 Midland TX, 79707			5	t Number:	Plains Mewb PP-21199 Jeff Kindley	ourne Toro			
			1	AH 1(A	A) @ 5' RE1 (Soil)				
				915000-01					
Analyte	Lim Result	it Repo	rting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Р	ermian B	asin Envi	ronmental I	.ab, 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	

Dean 12600 W County Rd 91 Midland TX, 79707			2	t Number:	Plains Mewb PP-21199 Jeff Kindley	ourne Toro			
				AH 1 (/	A) @ 7'				
				1J13006-	-02 (Soil)				
	Limit	Repo	rting						
Analyte	Result	_	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>General Chemistry Parameters by</u> Chloride % Moisture	<u>EPA / Standa</u> 38.3 9.0	nt Metl 1.10 0.1	nods mg/kg dry %	1	P1J1805 P1J1504	10/18/21 16:05 10/15/21 09:48	10/19/21 09:14 10/15/21 09:53	EPA 300.0 ASTM D2216	
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M						
C6-C12 >C12-C28 >C28-C35	1730 3860 600	137 137 137	mg/kg dry mg/kg dry mg/kg dry	5 5 5	P1J1508 P1J1508 P1J1508	10/15/21 11:30 10/15/21 11:30 10/15/21 11:30	10/16/21 21:02 10/16/21 21:02 10/16/21 21:02	TPH 8015M TPH 8015M TPH 8015M	
Surrogate: 1-Chlorooctane		6.6%	70-130		P1J1508	10/15/21 11:30	10/16/21 21:02	TPH 8015M	
Surrogate: o-Terphenyl		02 %	70-130		P1J1508	10/15/21 11:30	10/16/21 21:02	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	6190	137	mg/kg dry	5	[CALC]	10/15/21 11:30	10/16/21 21:02	calc	

Dean 12600 W County Rd 91 Midland TX, 79707			5	t Number:	Plains Mewb PP-21199 Jeff Kindley	ourne Toro			
			1.	AH 1 (4 113006-02	A) @ 7' 2RE1 (Soil)				
				10000 01					
Analyte	Lim Result	it Repor	ting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Р	ermian B	asin Envi	ronmental I	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	
Dean				Project:	Plains Mewb	ourne Toro			
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12600 W County Rd 91			Projec	t Number:	PP-21199				
Midland TX, 79707			2		Jeff Kindley				
				AH 1 (A	\)@0'				
				1J13006-	03 (8011)				
	Limit	Repo	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>General Chemistry Parameters by 1</u> % Moisture	<u>EPA / Standa</u> 12.0	nd Metl 0.1	nods %	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	1	01 %	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	

Dean 12600 W County Rd 91 Midland TX, 79707			5	t Number:	Plains Mewl PP-21199 Jeff Kindley				
			1.	AH 1 (A	A) @ 9' BRE1 (Soil)				
Analyte	Lim Result	it Repo	rting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Р	ermian B	asin Envi	ronmental	Lab, 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		83.8 %	80-120		P1J1503	10/15/21 09:02	10/18/21 13:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	9	94.0 %	80-120		P1J1503	10/15/21 09:02	10/18/21 13:14	EPA 8021B	

Dean 12600 W County Rd 91 Midland TX, 79707			5	t Number:	Plains Mewb PP-21199 Jeff Kindley	ourne Toro			
				AH 1 (A 1J13006-					
Analyte	Limit Result	t Repo	rting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by I % Moisture	<u>EPA / Standa</u> 10.0	ard Met 0.1	hods %	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216	
<u>Total Petroleum Hydrocarbons C6-</u>	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	

Dean 12600 W County Rd 91 Midland TX, 79707			5	t Number:	Plains Mewb PP-21199 Jeff Kindley	ourne Toro			
			1.	AH 1 (A J13006-04	A) @ 11' RE1 (Soil)				
Analyte	Limi Result	it Repo	rting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental I	*			
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		0.00111	mg/kg dry	1	P1J1503	10/15/21 09:02	10/18/21 12:11	EPA 8021B	
Ethylbenzene		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	
Surrogate: 4-Bromofluorobenzene		107 %	80-120		P1J1503	10/15/21 09:02	10/18/21 12:11	EPA 8021B	

Dean 12600 W County Rd 91 Midland TX, 79707			2	Number:	Plains Mewb PP-21199 Jeff Kindley	ourne Toro			
				NE Wall 1J13006-	(A) @ 3' 05 (Soil)				
				1010000					
Analyte	Limit Result	Repor	rting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Р	ermian Ba	asin Envi	ronmental I	lab, 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	10)4 %	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 / Standar	d Meth	nods						
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 N	Aethod	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	93.	.1%	70-130		P1J1508	10/15/21 11:30	10/16/21 22:08	TPH 8015M	
Surrogate: o-Terphenyl	11	15%	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	

Dean				Project:	Plains Mewb	ourne Toro			
12600 W County Rd 91			Projec	t Number:	PP-21199				
Midland TX, 79707			Project	Manager:	Jeff Kindley				
]	NE Wall	(A) @ 5'				
				1J13006-	-06 (Soil)				
	Limi	Repo	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by I % Moisture	<u>EPA / Standa</u> 10.0	0.1	hods %	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	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	9	4.3 %	70-130		P1J1508	10/15/21 11:30	10/16/21 22:30	TPH 8015M	
Surrogate: o-Terphenyl	9	7.2 %	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	

Dean 12600 W County Rd 91 Midland TX, 79707			5	t Number: Manager:	Plains Mewb PP-21199 Jeff Kindley	ourne Toro			
				,	A) @ 7' -07 (Soil)				
				1012000	07 (301)				
Analyte	Lin Result	nit Repo	orting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Р	ermian B	asin Envi	ronmental L	.ab, 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	lard Met	hods						
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 EP	A 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	

Dean 12600 W County Rd 91 Midland TX, 79707			5	t Number:	Plains Mewb PP-21199 Jeff Kindley	ourne Toro			
				,	A) @ 9'				
				1J13006-	-08 (Soil)				
	Lin	nit Repo	orting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Р	ermian B	asin Envi	ronmental I	.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 Met	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 EP	A Method	l 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	

Dean 12600 W County Rd 91 Midland TX, 79707			5	Number:	Plains Mewb PP-21199 Jeff Kindley	ourne Toro			
				AH 1 SE 1J13006-	(A) @ 3' 09 (Soil)				
	Limit	Report	ing						
Analyte	Result	•	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Pe	rmian Ba	asin Envi	ronmental I	lab, L.P.			
BTEX by 8021B									
Benzene	0.00337 0.0	00110	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 21:40	EPA 8021B	
Toluene	0.00932 0.0	00110	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 21:40	EPA 8021B	
Ethylbenzene	0.0260 0.0	00110	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 21:40	EPA 8021B	
Xylene (p/m)	0.00417 0.0	00220	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 21:40	EPA 8021B	
Xylene (o)	0.00333 0.0	00110	mg/kg dry	1	P1J1503	10/15/21 09:02	10/15/21 21:40	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	10	1%	80-120		P1J1503	10/15/21 09:02	10/15/21 21:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	<i>79</i> .	0%	80-120		P1J1503	10/15/21 09:02	10/15/21 21:40	EPA 8021B	S-GC
General Chemistry Parameters by	EPA / Standar	d Meth	ods						
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 M	lethod 8	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	85.	6%	70-130		P1J1508	10/15/21 11:30	10/16/21 23:37	TPH 8015M	
Surrogate: o-Terphenyl	10	7 %	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	

Dean				Project:	Plains Mewb	ourne Toro			
12600 W County Rd 91			Projec	t Number:	PP-21199				
Midland TX, 79707			Project	Manager:	Jeff Kindley				
				AH 1 SE	(A) @ 5'				
				1J13006-					
	Limi	t Repo	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>General Chemistry Parameters by I</u> % Moisture	<u>2PA / Standa</u> 14.0	0.1	<u>10ds</u> %	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	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	8	3.2 %	70-130		P1J1508	10/15/21 11:30	10/17/21 00:00	TPH 8015M	
Surrogate: o-Terphenyl	8	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	

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Dean				5	Plains Mewb	ourne Toro			
12600 W County Rd 91			Projec	t Number:	PP-21199				
Midland TX, 79707			Project	Manager:	Jeff Kindley				
				AH 1 SE	(A) @ 7'				
				1J13006-					
	Limi	Repo	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>General Chemistry Parameters by F</u> % Moisture	<u>EPA / Standa</u> 10.0	nrd Metl 0.1	hods %	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	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	9	3.0 %	70-130		P1J1508	10/15/21 11:30	10/17/21 00:22	TPH 8015M	
Surrogate: o-Terphenyl	9	6.7 %	70-130		P1J1508	10/15/21 11:30	10/17/21 00:22	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	171	27.8	mg/kg dry	1	[CALC]	10/15/21 11:30	10/17/21 00:22	calc	

Dean				Project:	Plains Mewbo	ourne Toro			
12600 W County Rd 91			Projec	t Number:	PP-21199				
Midland TX, 79707			Project	Manager:	Jeff Kindley				
			1	AH 1 SE	(A) @ 9'				
				1J13006-	12 (Soil)				
	Limi	it Repo	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by F % Moisture	<u>EPA / Stand</u> 11.0	ard Meth 0.1	<u>10ds</u> %	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216	
<u> Fotal Petroleum Hydrocarbons C6-0</u>	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 C6-C35	708	28.1	mg/kg dry	1	[CALC]	10/15/21 13:30	10/16/21 11:14	calc	

Dean 12600 W County Rd 91 Midland TX, 79707			5	t Number:	Plains Mewb PP-21199 Jeff Kindley	ourne Toro			
				AH 1 E (1J13006-					
				1313000-	-15 (501)				
Analyte	Lin Result	nit Repo	orting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Р	ermian B	asin Envi	ronmental I	.ab, 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	lard 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 Co	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	
0-033									

Dean 12600 W County Rd 91 Midland TX, 79707			5	t Number:	Plains Mewbo PP-21199 Jeff Kindley	ourne Toro			
			I		(A) @ 5'				
				IJ13006	-16 (Soil)				
Analyte	Lin Result	nit Repo	orting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Р	ermian B	asin Envi	ironmental L	ab, 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 Met	hods						
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	-C35 by EP	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	

Dean				Project:	Plains Mewb	ourne Toro			
12600 W County Rd 91			Projec	t Number:					
Midland TX, 79707			5		Jeff Kindley				
			110,000	munuger	von ninatoj				-
			A	AH 1 NE	(A) @ 7'				
				1J13006-	-17 (Soil)				
	Lim	it Repo	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>General Chemistry Parameters by 1</u> % Moisture	<u>EPA / Stand</u> 17.0	lard Metl 0.1	hods %	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216	
Fotal 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		100 %	70-130		P1J1802	10/18/21 12:30	10/19/21 13:13	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P1J1802	10/18/21 12:30	10/19/21 13:13	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3130	30.1	mg/kg dry	1	[CALC]	10/18/21 12:30	10/19/21 13:13	calc	

Dean				Draiast	Plains Mewb	ourna Toro			
			р [.]	5					
12600 W County Rd 91			5	t Number:					
Midland TX, 79707			Project	Manager:	Jeff Kindley				
			1	AH 1 NE	(A) @ 9'				
				1J13006-	18 (Soil)				
	Lin	nit Repo	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>General Chemistry Parameters by</u> % Moisture	<u>EPA / Stano</u> 14.0	lard Metl 0.1	hods %	1	P1J1504	10/15/21 09:48	10/15/21 09:53	ASTM D2216	
Total Petroleum Hydrocarbons C6-	C35 by EP	A 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	

Dean 12600 W County Rd 91 Midland TX, 79707			5	t Number:	Plains Mewb PP-21199 Jeff Kindley	oourne Toro			
			А		(A) @ 11' -19 (Soil)				
				1010000	(501)				
Analyte	Limit Result	t Repo	rting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>General Chemistry Parameters by </u> % Moisture	<u>EPA / Standa</u> 11.0			asin Env	P1J1504	Lab, L.P. 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	

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

Permian Basin Environmental Lab, L.P.

		D		Q., 1	£		0/DEC		DPD	
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	1						
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 &	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.

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

Permian	Basin	Environmental	Lab,	L.P.
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	D 1	Reporting	TT .	Spike	Source	0/0550	%REC	DPD	RPD	NT -
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1J1503 - *** DEFAULT PREP ***										
Calibration Blank (P1J1503-CCB2)				Prepared &	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: 1	0/15/21 Ai	nalyzed: 10	/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 &	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 &	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.

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

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 Check (P1J1503-CCV3)				Prepared: 1	0/15/21 A	nalyzed: 10	/16/21			
Benzene	0.0936	0.00100	mg/kg wet	0.100		93.6	80-120			
Toluene	0.0950	0.00100	"	0.100		95.0	80-120			
Ethylbenzene	0.0921	0.00100	"	0.100		92.1	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.3	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	75-125			
Matrix Spike (P1J1503-MS1)	Sou	rce: 1J14007	-41	Prepared &	Analyzed:	10/15/21				
Benzene	0.0570	0.00103	mg/kg dry	0.0773	ND	73.8	80-120			QM-0
Toluene	0.0584	0.00103		0.0773	ND	75.6	80-120			QM-0
Ethylbenzene	0.0445	0.00103	"	0.0773	ND	57.6	80-120			QM-0
Xylene (p/m)	0.120	0.00206	"	0.155	ND	77.5	80-120			QM-0
Xylene (o)	0.0655	0.00103	"	0.0773	ND	84.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.0909		"	0.0927		98.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.0936		"	0.0927		101	80-120			
Matrix Spike Dup (P1J1503-MSD1)	Sou	rce: 1J14007	-41	Prepared: 1	0/15/21 A	nalyzed: 10	/16/21			
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: 1,4-Difluorobenzene	0.108		"	0.110		98.1	80-120			
Batch P1J1909 - *** DEFAULT PREP ***										
Blank (P1J1909-BLK1)				Prepared: 1	0/19/21 A	nalyzed: 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								
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.145		"	0.120		121	80-120			S-G

Permian Basin Environmental Lab, L.P.

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

Permian	Basin	Environmenta	l Lab,	L.P.
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		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 Ai	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.

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

Permian	Basin	Environmental	Lab,	L.P.
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Barke PJJ1909 - *** DEFAULT PREP *** Barke PJJ1909 - *** DEFAULT PREP *** Barke PJJ1909 - *** DEFAULT PREP *** Calibration Check (PJJ1909-CCV2) Prepared: 10/19/21 Analyzed: 10/20/21 Benzene 0.103 0.00100 ** 0.100 103 80-120 Educene 0.103 0.00100 * 0.100 102 80-120 Killer 0.101 0.00100 * 0.100 102 80-120 Killer 0.100 0.100 107 80-120 Kylene (o/m) 0.201 0.00200 * 0.120 97.9 75-125 Surrogate: J.4.Diftworobenzene 0.117 * 0.120 97.9 75-125 Calibration Check (PJJ1909-CCV3) Prepared: 10/19/21 Analyzed: 10/20/21 Edivence Benzene 0.104 0.00100 * 0.100 105 80-120 Starter (J-1)flowrobenzene 0.118 * 0.120 98.5 75-125 Matrix Splic (PJJ1909-MS1) Source: 1J19003-OT Prepared: 10/19/21 Analyzed:			Reporting		Spike	Source		%REC		RPD	
Calibration Check (P1J1909-CCV2) Prepared: 10/201 Analyzed: 10/201 Brazence 0.105 0.0100 mgkg wet 0.100 105 80-120 Toluence 0.103 0.0100 * 0.100 102 80-120 Ethylbenzene 0.102 0.00100 * 0.100 102 80-120 Xylene (p'm) 0.201 0.00200 * 0.200 101 80-120 Surgatic : H-Bromofluorobenzene 0.117 * 0.120 97.9 75-125 Surgatic : H-Difluorobenzene 0.117 * 0.120 97.9 75-125 Surgatic : H-Difluorobenzene 0.109 0.00100 mgkg wet 0.100 109 80-120 Ehilphenzene 0.109 0.00100 * 0.100 104 80-120 Surgatic : H-Difluorobenzene 0.164 0.00100 * 0.100 106 80-120 Surgatic : H-Bromofluorobenzene 0.118 * 0.120 98.7 75-125 Mat	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Benzene 0.105 0.0010 mg kg wet 0.100 105 80-120 Tolluene 0.103 0.00100 * 0.100 103 80-120 Killene 0.100 0.00100 * 0.100 103 80-120 Xylene (p'm) 0.201 0.00200 * 0.200 101 80-120 Surrogate: 1.4.001000 0.0100 * 0.100 107 80-120 Surrogate: 1.4.001000000 * 0.120 97.9 75-125 Calibration Check (P1J199-CCV3) Prepared: 10/19/21 Analyzed: 10/20/21 Benzene 0.109 0.00100 * 0.100 109 80-120 Toluene 0.105 0.00100 * 0.100 104 80-120 Surrogate: 4.120 0.00100 * 0.100 104 80-120 Surrogate: 4.130 0.85 7.5-125 5 5 5 Surrogate: 4.130 0.1	Batch P1J1909 - *** DEFAULT PREP ***										
Toluene 0.103 0.0010 * 0.100 103 80-120 Ehlybenzene 0.102 0.0010 * 0.100 102 80-120 Sylene (p'm) 0.201 0.0020 * 0.200 101 80-120 Surragate: 1.470fluorobenzene 0.117 * 0.120 97.9 75-125 Surragate: 1.470fluorobenzene 0.117 * 0.120 97.9 75-125 Calibration Check (P1J1990-CCV3) Prepared: 10/19/21 Analyzed: 10/20021 80-120 Toluene 0.105 0.0010 * 0.100 104 80-120 Toluene 0.105 0.0010 * 0.100 80-120 Sylene (n) 0.104 0.00100 * 0.100 80-120 Sylene (n) 0.106 0.0010 * 0.100 80-120 Surragate: 1.4-0fluorobenzene 0.118 * 0.120 98.5 75-125 Surragate: 1.4-0fluorobenzene 0.111 mgk gdry 0.111 ND 77.8 0.200	Calibration Check (P1J1909-CCV2)				Prepared: 1	0/19/21 A	nalyzed: 10	/20/21			
Ethylbenzene 0.102 0.0100 " 0.102 0.101 0.200 101 80-120 Xylene (n) 0.107 0.0010 " 0.107 80-120 80-120 Xylene (n) 0.107 0.0010 " 0.107 80-120 80-120 Surrogate: 1.4.10/1000-benzene 0.107 0.0100 " 0.100 109 80-120 Entiper tion Check (PI J1000-CCC3) Prepared: 10/19/21 Xaleyzet: 10/20. 100 80-120 Entiper tion Check (PI J1000-CCC3) Prepared: 10/19/21 Xaleyzet: 10/20. 109 80-120 Kylene (n) 0.105 0.0010 " 0.100 106 80-120 100 <	Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120			
Langeneration is not a solution of the solutio	Toluene	0.103	0.00100	"	0.100		103	80-120			
Xylenc (n) 0.107 0.0010 " 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: 10/19/21 Analyzed: 10/20/21 10/20 10/20 Benzene 0.106 0.00100 mg/kg wt 0.100 109 80-120 Sturogate: 1,4-Difluorobenzene 0.105 0.00100 " 0.100 104 80-120 Sturogate: 1,4-Difluorobenzene 0.104 0.00100 " 0.200 99.6 80-120 Sturogate: 4-Bromofluorobenzene 0.118 " 0.120 98.7 75-125 Sturogate: 4-Bromofluorobenzene 0.118 " 0.120 98.7 75-125 Sturogate: 4-Bromofluorobenzene 0.118 " 0.120 98.7 75-125 Sturogate: 4-Bromofluorobenzene 0.111 mg/kg dry 0.111 ND 74.8 80-120	Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1.18 " 0.120 97.9 75.125 Surrogate: 1.4-Diffuorobenzene 0.117 " 0.120 97.9 75-125 Calibration Check (P1J1909-CCV3) Prepared: 10/19/21 Analyzed: 10/20/21 Benzene 0.109 0.00100 " 0.100 109 80-120 Ethylbenzene 0.105 0.00100 " 0.100 104 80-120 Sylene (pim) 0.199 0.00200 " 0.200 99.6 80-120 Sylene (pim) 0.106 0.00100 " 0.100 106 80-120 Swrogate: 1.4-Diffuorobenzene 0.118 " 0.120 98.5 75-125 Matrix Spike (P1J1909-MS1) Source: J19003-0" Prepared: 10/19/21 Analyzec: 10/20/21 Benzene 0.0734 0.00111 " 0.111 ND 76.8 0.200 QM Surrogate: 4-Bromafluorobenzene 0.733 0.00111<"	Xylene (p/m)	0.201	0.00200		0.200		101	80-120			
Jan rogans: Propagate: 1.4-Difluorobenzene 0.117 " 0.120 97.9 7.5-125 Calibration Check (P1J1909-CCV3) Prepared: 10/19/21 Analyzed: 10/20/21 Benzene 0.109 0.00100 mg/kg wet 0.100 109 80-120 Toluene 0.104 0.00100 " 0.100 104 80-120 Kylene (p/m) 0.106 0.00100 " 0.100 104 80-120 Surrogate: 1.4-Difluorobenzene 0.118 " 0.120 98.5 75-125 Matrix Spike (P1J1909-MS1) Source: IJ19003-OT Prepared: 10/19/21 Analyzed: 10/20/21 Benzene 0.0831 0.00111 mg/kg dty 0.111 ND 74.8 80-120 QM Surrogate: 1.4-Difluorobenzene 0.0754 0.00111 " 0.111 ND 74.8 80-120 QM Surrogate: 1.4-Difluorobenzene 0.0754 0.00111 " 0.111 ND	Xylene (o)	0.107	0.00100		0.100		107	80-120			
Calibration Check (P1J1909-CCV3) Prepared: 10/10* 9/.3 7/3-123 Benzene 0.109 0.0010 mg/kg wet 0.100 109 80.120 Toluene 0.105 0.00100 " 0.100 104 80-120 Kylene (p/m) 0.199 0.00200 " 0.100 104 80-120 Surrogate: 1.4-Difluorobenzene 0.106 0.00100 " 0.100 106 80-120 Surrogate: 1.4-Difluorobenzene 0.118 " 0.120 98.5 75-125 Matrix Spike (P1J1909-MS1) Source: 1J19003-01 Prepared: 10/19/21 Analyzed: 10/20/21 Benzene 0.0831 0.00111 " 0.111 ND 74.8 80-120 QM Toluene 0.0734 0.00111 " 0.111 ND 74.8 80-120 QM Sylene (p/m) 0.153 0.00222 " 0.222 ND 66.0 80-120 QM Syle	Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		97.9	75-125			
Banzene 0.109 0.0100 mgk wet 0.100 109 80-120 Toluene 0.105 0.00100 " 0.100 105 80-120 Ehlybenzene 0.104 0.00100 " 0.100 104 80-120 Xylene (p/m) 0.199 0.00200 " 0.200 99.6 80-120 Surrogate: 1.4-Diffuorobenzene 0.118 " 0.120 98.5 75-125 Matrix Spike (PIJ1909-MS1) Source: 1J19003-01 Prepared: 10/19/21 Analyzed: 10/20/21 Prepared: 10/19/21 Benzene 0.0831 0.00111 mg/kg dry 0.111 ND 74.8 80-120 QM Toluene 0.0785 0.00111<"	Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.9	75-125			
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 Surrogate: 1.4-Difluorobenzene 0.118 " 0.120 98.5 75-125 Matrix Spike (P1J1909-MS1) Source: J19003-01 Prepared: 10/19/21 Analyzed: 10/20/21 QM Eduylbenzene 0.0831 0.00111 mg/kg dry 0.111 ND 74.8 80-120 QM Eduylbenzene 0.0754 0.00111 mg/kg dry 0.111 ND 74.8 80-120 QM Kylene (p/m) 0.153 0.00222 " 0.122 ND 69.0 80-120 QM Kylene (p/m) 0.153 0.00222 " 0.222 ND 69.0 80-120 QM Kylene (p/m) 0.153 0.00222 " 0.222 ND 69.0 80-120 QM<	Calibration Check (P1J1909-CCV3)				Prepared: 1	0/19/21 A	nalyzed: 10	/20/21			
Native 0.103 0.0100 0.103 0.104 0.104 0.104 0.103 0.0104 0.104 0.104 0.104 0.104 0.104 0.104 0.104 0.104 0.104 0.104 0.104 0.104 0.0100 104 80-120 Xylene (o) 0.106 0.0100 " 0.100 98.5 75-125 6 6	Benzene	0.109	0.00100	mg/kg wet	0.100		109	80-120			
Initialization 0.0000 0.000 0.000	Toluene	0.105	0.00100	"	0.100		105	80-120			
Nylene (o) 0.106 0.0010 " 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) Source: 1J19003-01 Prepared: 10/19/21 Analyzed: 10/20/21 QM Benzene 0.0831 0.00111 mg/kg dry 0.111 ND 74.8 80-120 QM Toluene 0.0754 0.00111 0.111 ND 76.0 QM Xylene (o) 0.0789 0.00111 0.111 ND 71.0 80-120 QM Xylene (o) 0.0789 0.00111 0.111 ND 71.0 80-120 QM Surrogate: 1,4-Difluorobenzene 0.133 0.0222 " 0.222 ND 69.0 80-120 QM Surrogate: 1,4-Difluorobenzene 0.133 " 0.133 102 80-120 QM Surrogate: 1,4-Difluorobenzene	Ethylbenzene	0.104	0.00100		0.100		104	80-120			
Aylene (b) 0.100 0.0010 0.100 100	Xylene (p/m)	0.199	0.00200		0.200		99.6	80-120			
Surrogate: 1,PL0judokolenzene 0.116 0.126 96.3 75-125 Matrix Spike (P1J1909-MS1) Source: 1J19003-01 Prepared: 10/19/21 Analyzed: 10/20/21 Benzene 0.0831 0.00111 mg/kg dry 0.111 ND 74.8 80-120 QM Toluene 0.0785 0.00111 " 0.111 ND 74.8 80-120 QM Kylene (p/m) 0.153 0.00222 " 0.222 ND 69.0 80-120 QM Xylene (o) 0.0789 0.00111 " 0.111 ND 71.0 80-120 QM Surrogate: 4-Bromofluorobenzene 0.136 " 0.133 102 80-120 QM Xylene (o) 0.0789 0.00111 " 0.111 ND 71.0 80-120 QM Surrogate: 1-Bromofluorobenzene 0.133 " 0.133 102 80-120 QM Surrogate: 1,4-Difluorobenzene 0.133 " 0.133 102 80-120 QM Surrogate: 1,4-Difluorobenzene 0.0870 0.00111 mg/kg dry 0.11	Xylene (o)	0.106	0.00100		0.100		106	80-120			
Matrix Spike (P1J1909-MS1) Source: 1J19003-01 Prepared: 10/19/21 Analyzed: 10/20/21 Benzene 0.0831 0.00111 mg/kg dry 0.111 ND 74.8 80-120 QM Toluene 0.0785 0.00111 " 0.111 ND 70.7 80-120 QM Kylene (p/m) 0.153 0.00222 " 0.222 ND 69.9 80-120 QM Surrogate: 4-Bromofluorobenzene 0.136 " 0.133 102 80-120 QM Surrogate: 1.4-Difluorobenzene 0.136 " 0.133 102 80-120 QM Surrogate: 1.4-Difluorobenzene 0.136 " 0.133 102 80-120 QM Matrix Spike Dup (P1J1909-MSD1) Source: 1J19003-01 Prepared: 10/19/21 Analyzed: 10/20/21 Benzene 0.0906 0.00111 mg/kg dry 0.111 ND 81.5 80-120 20 QM Surrogate: 1J19003-01 Prepared: 10/19/21 Analyzed: 10/20/21	Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.5	75-125			
Benzene 0.0831 0.00111 mg/kg dry 0.111 ND 74.8 80-120 QM Toluene 0.0785 0.00111 " 0.111 ND 70.7 80-120 QM Ethylbenzene 0.0734 0.00111 " 0.111 ND 66.0 80-120 QM Xylene (p/m) 0.153 0.00222 " 0.222 ND 69.0 80-120 QM Xylene (o) 0.0789 0.00111 " 0.111 ND 71.0 80-120 QM Surrogate: 1.4-Difluorobenzene 0.133 " 0.133 102 80-120 QM Matrix Spike Dup (P1J1909-MSD1) Source: 1J19003-01 Prepared: 10/19/21 Analyzed: 10/20/21 Benzene 0.0906 0.00111 mg/kg dry 0.111 ND 78.3 80-120 20 Toluene 0.0870 0.00111 " 0.111 ND 78.3 80-120 9.92 20 QM Xylene (p/m) 0.166 0.00222 " 0.222 ND 74.8 <	Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.7	75-125			
Toluene 0.0785 0.00111 " 0.111 ND 70.7 80-120 QM Ethylbenzene 0.0734 0.00111 " 0.111 ND 66.0 80-120 QM Xylene (p/m) 0.153 0.00222 " 0.222 ND 69.0 80-120 QM Xylene (o) 0.0789 0.00111 " 0.111 ND 71.0 80-120 QM Surrogate: 4-Bromofluorobenzene 0.136 " 0.133 102 80-120 QM Matrix Spike Dup (P1J1909-MSD1) Source: 1J19003-01 Prepared: 10/19/21 Analyzed: 10/20/21 PM PM Benzene 0.0906 0.00111 mg/kg dry 0.111 ND 78.3 80-120 8.60 20 Toluene 0.0870 0.00111 mg/kg dry 0.111 ND 78.3 80-120 10.3 20 QM Xylene (p/m) 0.166 0.00222 " 0.222 ND 74.8 80-120 9.92 20 QM Xylene (p/m) 0.166 0.00222 "	Matrix Spike (P1J1909-MS1)	Sou	rce: 1J19003	-01	Prepared: 1	0/19/21 A	nalyzed: 10	/20/21			
Inducte 0.0734 0.00111 " 0.111 ND 60.0 80-120 QM Xylene (p/m) 0.153 0.00222 " 0.222 ND 69.0 80-120 QM Xylene (o) 0.0789 0.00111 " 0.111 ND 71.0 80-120 QM Surrogate: 4-Bromofluorobenzene 0.136 " 0.133 102 80-120 QM Matrix Spike Dup (P1J1909-MSD1) Source: 1J19003-01 Prepared: 10/19/21 Analyzed: 10/20/21 Benzene 0.0906 0.00111 " 0.111 ND 88.60 20 Toluene 0.0870 0.00111 " 0.111 ND 78.3 80-120 8.60 20 Kylene (p/m) 0.0810 0.00111 " 0.111 ND 78.3 80-120 9.92 QM QM Xylene (p/m) 0.166 0.00222 " 0.222 ND 74.8 80-120 9.92 QM QM Xylene (o) 0.0869 0.00111 " 0.111 ND	Benzene	0.0831	0.00111	mg/kg dry	0.111	ND	74.8	80-120			QM-07
Xylene (p/m) 0.153 0.00222 " 0.222 ND 69.0 80-120 QM Xylene (o) 0.0789 0.00111 " 0.111 ND 71.0 80-120 QM Surrogate: 4-Bromofluorobenzene 0.136 " 0.133 102 80-120 QM Surrogate: 1,4-Difluorobenzene 0.133 " 0.133 102 80-120 QM Matrix Spike Dup (P1J1909-MSD1) Source: 1J19003-01 Prepared: 10/19/21 Analyzed: 10/20/21 Prepared: 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 9.92 20 QM Xylene (p/m) 0.166 0.00222 " 0.222 ND 74.8 80-120 9.92 20 QM Surrogate: 4-Bromofluorobenzene 0.135 " 0.133 102 80-120 9.66 20 QM Surrogate: 4-Bromofluorobenzene 0.135 " 0.133 <td>Toluene</td> <td>0.0785</td> <td>0.00111</td> <td></td> <td>0.111</td> <td>ND</td> <td>70.7</td> <td>80-120</td> <td></td> <td></td> <td>QM-07</td>	Toluene	0.0785	0.00111		0.111	ND	70.7	80-120			QM-07
Xylene (o) 0.0789 0.00111 " 0.111 ND 71.0 80-120 QM Surrogate: 4-Bromofluorobenzene 0.136 " 0.133 102 80-120 90-120	Ethylbenzene	0.0734	0.00111		0.111	ND	66.0	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) Source: 1J19003-01 Prepared: 10/19/21 Analyzed: 10/20/21 Benzene 0.0906 0.00111 mg/kg dry 0.111 ND 81.5 80-120 Toluene 0.0870 0.00111 " 0.111 ND 78.3 80-120 9.92 QM Kylene (p/m) 0.0810 0.00111 " 0.111 ND 72.9 80-120 9.92 QO QM Xylene (p/m) 0.166 0.00222 " 0.222 ND 74.8 80-120 8.09 20 QM Surrogate: 4-Bromofluorobenzene 0.135 " 0.133 102 80-120 9.66 20 QM	Xylene (p/m)	0.153	0.00222	"	0.222	ND	69.0	80-120			QM-07
Surrogate: 1.100 1.00 <td>Xylene (o)</td> <td>0.0789</td> <td>0.00111</td> <td>"</td> <td>0.111</td> <td>ND</td> <td>71.0</td> <td>80-120</td> <td></td> <td></td> <td>QM-0</td>	Xylene (o)	0.0789	0.00111	"	0.111	ND	71.0	80-120			QM-0
Matrix Spike Dup (P1J1909-MSD1) Source: 1J19003-01 Prepared: 10/19/21 Analyzed: 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 9.92 20 QM Ethylbenzene 0.0810 0.00111 " 0.111 ND 72.9 80-120 9.92 20 QM Xylene (p/m) 0.166 0.00222 " 0.222 ND 74.8 80-120 8.09 20 QM Xylene (o) 0.0869 0.00111 " 0.111 ND 78.2 80-120 9.06 20 QM Surrogate: 4-Bromofluorobenzene 0.135 " 0.133 102 80-120 9.06 20 QM	Surrogate: 4-Bromofluorobenzene	0.136		"	0.133		102	80-120			
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 Ethylbenzene 0.0810 0.00111 " 0.111 ND 72.9 80-120 9.92 20 QM Xylene (p/m) 0.166 0.00222 " 0.222 ND 74.8 80-120 8.09 20 QM Xylene (o) 0.0869 0.00111 " 0.111 ND 78.2 80-120 9.66 20 QM Surrogate: 4-Bromofluorobenzene 0.135 " 0.133 102 80-120 9.66 20 QM	Surrogate: 1,4-Difluorobenzene	0.133		"	0.133		99.9	80-120			
Toluene 0.0870 0.00111 " 0.111 ND 78.3 80-120 10.3 20 QM Ethylbenzene 0.0810 0.00111 " 0.111 ND 78.3 80-120 10.3 20 QM Xylene (p/m) 0.166 0.00222 " 0.222 ND 74.8 80-120 8.09 20 QM Xylene (o) 0.0869 0.00111 " 0.111 ND 78.2 80-120 9.66 20 QM Surrogate: 4-Bromofluorobenzene 0.135 " 0.133 102 80-120 9.66 20 QM	Matrix Spike Dup (P1J1909-MSD1)	Sou	rce: 1J19003	-01	Prepared: 1	0/19/21 A	nalyzed: 10	/20/21			
Ethylbenzene 0.0810 0.00111 " 0.111 ND 72.9 80-120 9.92 20 QM Xylene (p/m) 0.166 0.00222 " 0.222 ND 74.8 80-120 8.09 20 QM Xylene (o) 0.0869 0.00111 " 0.111 ND 78.2 80-120 9.66 20 QM Surrogate: 4-Bromofluorobenzene 0.135 " 0.133 102 80-120 9.66 20 QM	Benzene	0.0906	0.00111	mg/kg dry	0.111	ND	81.5	80-120	8.60	20	
Xylene (p/m) 0.166 0.00222 " 0.222 ND 74.8 80-120 8.09 20 QM Xylene (o) 0.0869 0.00111 " 0.111 ND 78.2 80-120 9.66 20 QM Surrogate: 4-Bromofluorobenzene 0.135 " 0.133 102 80-120	Toluene	0.0870	0.00111	"	0.111	ND	78.3	80-120	10.3	20	QM-07
Xylene (o) 0.0869 0.00111 " 0.111 ND 78.2 80-120 9.66 20 QM Surrogate: 4-Bromofluorobenzene 0.135 " 0.133 102 80-120 V	Ethylbenzene	0.0810	0.00111	"	0.111	ND	72.9	80-120	9.92	20	QM-07
Surrogate: 4-Bromofluorobenzene 0.135 " 0.133 102 80-120	Xylene (p/m)	0.166	0.00222	"	0.222	ND	74.8	80-120	8.09	20	QM-07
Surrogale. 4-bromojnuoroberzene 0.155 0.155 102 60-120	Xylene (o)	0.0869	0.00111		0.111	ND	78.2	80-120	9.66	20	QM-07
Surrogate: 1,4-Difluorobenzene 0.133 " 0.133 99.6 80-120	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.

Dean	Project:	Plains Mewbourne Toro
12600 W County Rd 91	Project Number:	PP-21199
Midland TX, 79707	Project 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 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)	Sou	rce: 1J13006-0	5	Prepared &	Analyzed:	10/15/21				
% Moisture	12.0	0.1	%		11.0			8.70	20	
Duplicate (P1J1504-DUP2)	Sou	rce: 1J13006-1	.5	Prepared &	Analyzed:	10/15/21				
% Moisture	10.0	0.1	%		9.0			10.5	20	
Duplicate (P1J1504-DUP3)	Sou	rce: 1J13009-1	0	Prepared &	Analyzed:	10/15/21				
% Moisture	14.0	0.1	%		14.0			0.00	20	
Duplicate (P1J1504-DUP4)	Sou	rce: 1J14001-0	3	Prepared &	Analyzed:	10/15/21				
% Moisture	9.0	0.1	%	*	9.0			0.00	20	
Duplicate (P1J1504-DUP5)	Sou	rce: 1J14005-1	1	Prepared &	Analyzed:	10/15/21				
% Moisture	9.0	0.1	%	_	10.0			10.5	20	
Duplicate (P1J1504-DUP6)	Sou	rce: 1J14005-2	1	Prepared &	Analyzed:	10/15/21				
% Moisture	11.0	0.1	%	1	10.0			9.52	20	

Permian Basin Environmental Lab, L.P.

Dean	Project: Plains Mewbourne Toro
12600 W County Rd 91	Project Number: PP-21199
Midland TX, 79707	Project 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
Thatyte	Result	Emnt	Onits	Level	Result	JULLE	Linits	KI D	Emit	Trotes
Batch P1J1805 - *** DEFAULT PREP ***										
Blank (P1J1805-BLK1)				Prepared: 1	10/18/21 A	nalyzed: 10	/19/21			
Chloride	ND	1.00	mg/kg wet							
LCS (P1J1805-BS1)				Prepared: 1	10/18/21 A	nalyzed: 10	/19/21			
Chloride	412	1.00	mg/kg wet	404		102	90-110			
LCS Dup (P1J1805-BSD1)				Prepared: 1	10/18/21 A	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 A	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 A	nalyzed: 10	/19/21			
Chloride	19.1		mg/kg	20.0		95.5	90-110			
Calibration Check (P1J1805-CCV3)				Prepared: 1	10/18/21 A	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 A	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 A	nalvzed: 10	/19/21			
Chloride	529		mg/kg dry	555	11.0	93.4	80-120			

Permian Basin Environmental Lab, L.P.

Dean	Project: Plains Mewbourne Toro	
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Midland TX, 79707	Project 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 P1J1805 - *** DEFAULT PREP *** Matrix Spike Dup (P1J1805-MSD1)	Sour	ce: 1J13005-02	Prepared:	10/18/21 A	nalyzed: 10)/19/21			
Chloride	4180	26.6 mg/kg dr	y 2610	1230	113	80-120	5.08	20	
Matrix Spike Dup (P1J1805-MSD2) Source: 1J13006-09		Prepared:	10/18/21 A	nalyzed: 10	/19/21				
Chloride	1060	1.10 mg/kg di	y 1070	11.0	98.5	80-120	67.0	20	QM-

Permian Basin Environmental Lab, L.P.

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

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										
Blank (P1J1508-BLK1)				Prepared: 1	0/15/21 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	96.8		"	100		96.8	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		99.9	70-130			
LCS (P1J1508-BS1)				Prepared: 1	0/15/21 A	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	0/15/21 Ai	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: 1	0/15/21 Ai	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	0/15/21 Ai	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	53.9		"	50.0		108	70-130			

Permian Basin Environmental Lab, L.P.

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

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: 1	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)	Sour	ce: 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)	Sour	ce: 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: 1	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.

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

Permian Basin Environmental Lab, L.P.

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

Permian Basin Environmental Lab, L.P.

Dean	Project:	Plains Mewbourne Toro
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Midland TX, 79707	Project Manager:	Jeff Kindley

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)	Sou	rce: 1J13005	-01	Prepared: 1	0/15/21 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-0
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:	0/18/21 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:	0/18/21 A	nalyzed: 10	/19/21			
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:	0/18/21 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:	0/18/21 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.

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

Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source	e	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	t %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)	Sou	rce: 1J18003	-01	Prepared:	10/18/21	Analyzed: 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:	10/18/21	Analyzed: 10)/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			

Permian Basin Environmental Lab, L.P.

Dean	Project: Plains Mewbourne Toro
12600 W County Rd 91	Project Number: PP-21199
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
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
В	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

Report Approved By:

Bun Barron

Date: <u>11/24/2021</u>

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-21199
Midland TX, 79707	Project Manager:	Jeff Kindley

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2	AH-1 (A) @ 7'		7	7'	10/12/21			<u>`</u>	×	1							·		Soil		*		<u> </u>	*			 	{		<u> </u>				×		<u> </u>		<u> </u>			1 .
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4	AH-1 (A) @ 11'	- -	1	11'	10/12/21			<u>ب</u>	×	1		.							Soil		*	1	-	*		1	<u> </u>	1		1		1	1.	*		1	Ŀ				1
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6	NE Wall (A) @ 5'		ςī	5 <u>1</u>	10/12/21				×				1			+			Soil		*		┥	*	÷.,		<u> </u>	1		1		1	1.	*	1	1	<u> </u>		1.1		1 .
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8	AH-2 (A) @ 9'		Q	Q	10/12/21				×		-		4-	- I -	Т		-		Soil		×	+	4-	×			+	1 .	T	+			+	×	· [*	1	-				1
4	AH-1 SE (A) @ 3		ո ա	ກຼ່ມ	10/12/21			<u>د</u> د	< ×		.	-					· .		Soil		* ×			* ×		+					· ·			* ×		~		·			1 1
<pre>Special Instructions: * If Benzene is > or =</pre>	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 ppm then run next * 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 ppm then run next	s > = 50 ppm, the	n run ne	xt deeper	sample. If TPH	Dro/Gro is >=	100	dd C	3 [Ч Г	윮	· ·	Ť	v [- N [5	ē	ğl	n then run	Tex	[S		irat [83	ରି ତି	10 S	Laboratory Comments: Sample Containers Intact?	a B	尚言 -				國際		-521		靈麗	Z		3888 1
deeper sample.	deeper sample. If Chlorides are > = 10,000 ppm, then run next deeper sample	n, then run next a	eebel se	. pe					1.	•			h			1		4		1.1		<	8		ee	9	문	VOCs Free of Headspace?	pag	, eć					0	¥	1	1	z		
Relinquished by:		Date	L L L L M B L L M B D	Š.	Received by:													Date		lime	^o	n n n n	uste Instr	t d so	Se Se	als	an	Labels on container(s) Custody seals on container(s) Diretony seals on cooler(s)		ner	Ś				圖 篇	<			zzz		
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Relinquished by:		Date	Time	e	Received by:	ived by: Una Dedage	N .										6		Date Time Temperature Upon Receipt. 1/3/4/14/30 Received: 13/6 °C Factor	in the	¢, "	N R A	ece	ive ive		-05	10-23	6 3	ec.	° ° Bio		ğ	R,	$ \heartsuit$	21	$\mathcal{B}_{\mp}($	0)		關於於		
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Page 39 of 40

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Adjusted: 14.16 °C Factor	Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	VOCs Free of Headspace?	Laboratory Comments: Sample Containers Infact?	<u>.</u>								-		NORM			Þ	ι	Standard	2020	unty,	99	urne	Pho	
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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

Project: Markbourne Toro PP-21199 hab order 13 13006

Revision Request:

Need to Report Following TPH	Results
Lab Sanglo 11 (AH-1 SE/(A) e 7') LAB Small 18 (AH-INE (A) @9')
Lab Songle 12 (AH-1 SE (A) (9)	Labsingle 19 (AH-1 NE (A) @ 11')
Lob Smule 17 (AH-INE (A) e7)	Law Super II (IIR IIVE (I) E II)

Submitted by (Name and Date):	H	Kraly	November	15,	2021
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Page 1 of 1

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



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 M

Revision Request:



Submitted by (Name and Date): Hy Knily Nownil 18, 2021

PBEL_REV_SUBMISSION_2021_1.DOC

Page 1 of 1
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	Fax:
12600 W County Rd 91	Project Number: PP-2061	
Midland TX, 79707	Project 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: https://www.tceq.texas.gov/assets/public/compliance/compliance_support/ga/labs/als_svcs houston.pdf

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

Project: Plains Mewbourne Toro Project Number: PP-2061 Project Manager: Sylwia Reynolds

Fax:

0F26020-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Pern	nian Basir	n Environma	ental Lab, L.P.			
General Chemistry Paramete	rs by FPA /	Standard							
Chloride	<u>15 Dy ELA/</u> 86.4		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
рН	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 Mate <u>ria</u>	<u>l (N.O.R.N</u>	И.)						
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	1	P0G1704	07/02/20 12:34	07/10/20 11:57	EPA 901.1	SUB12
Radium 226 Analysis Error	1.14	+	-/- 2 Sigma	1	P0G1704	07/02/20 12:34	07/10/20 11:57	EPA 901.1	SUB12
Radium 228 Analysis Error	0.24	+	-/- 2 Sigma	1	P0G1704	07/02/20 12:34	07/10/20 11:57	EPA 901.1	SUB12
TCLP Metals 1311 by EPA / S	<u>standard M</u>	ethods							
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

Permian Basin Environmental Lab, L.P.

Dean 12600 W County Rd 91 Midland TX, 79707		Project: Plains Mewbourne Toro Project Number: PP-2061 Project Manager: Sylwia Reynolds						
				WC-1 0F26020-01 (Section 1997)	oil)			
Analyte	Result	Reporting Limit Uni	ts Dilutic	n Batch	Prepared	Analyzed	Method	Notes
			Permian B	asin Environmo	ental Lab, L.P.			
TCLP Volatile Organic Com	pounds by El	PA Method 1	311/8260B					
Benzene	ND	100 u	g/l 1	P0G1001	07/02/20 07:00	07/07/20 17:34	EPA 8260B	SUB-13
Total Petroleum Hydrocarb	ons C6-C35 b	y EPA Metho	od 8015M					
C6-C12	2590	133 mg/k	ag dry 5	P0F3004	06/30/20 15:42	06/30/20 18:32	TPH 8015M	
>C12-C28	7640	133 mg/k	ag dry 5	P0F3004	06/30/20 15:42	06/30/20 18:32	TPH 8015M	
>C28-C35	826	133 mg/k	ag dry 5	P0F3004	06/30/20 15:42	06/30/20 18:32	TPH 8015M	
Surrogate: 1-Chlorooctane		97.8 %	70-130	P0F3004	06/30/20 15:42	06/30/20 18:32	TPH 8015M	
Surrogate: o-Terphenyl		96.5 %	70-130	P0F3004	06/30/20 15:42	06/30/20 18:32	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	11100	133 mg/k	ag dry 5	[CALC]	06/30/20 15:42	06/30/20 18:32	cale	
Physical Parameters by API	IA/ASTM/EP	A Methods						
Free Liquid	PASS	Ν	/A 1	P0G1001	06/29/20 08:00	06/29/20 08:15	EPA 9095	

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	

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 Limits	RPD	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)	Sou	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			

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	

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 P0F3003 - *** DEFAULT PREP ***										
Calibration Check (P0F3003-CCV2)	Pre		Prepared: (06/30/20 A	nalyzed: 07	/01/20				
Chloride	18.7		mg/kg	20.0		93.3	0-200			
Matrix Spike (P0F3003-MS1)	Sourc	e: 0F26018	-07	Prepared: 06/30/20 Analyzed: 07/01/20						
Chloride	521	1.04	mg/kg dry	521	22.6	95.7	80-120			
Matrix Spike (P0F3003-MS2)	Sourc	e: 0F26022	-03	Prepared: 06/30/20 Analyzed: 07/01/20			/01/20			
Chloride	5040	11.4	mg/kg dry	1140	3540	132	80-120			QM-0
Matrix Spike Dup (P0F3003-MSD1)	Sourc	e: 0F26018	-07	Prepared: (06/30/20 A	nalyzed: 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)	Sourc	e: 0F26022	-03	Prepared: ()6/30/20 A	nalyzed: 07	/01/20			
Chloride	4900	11.4	mg/kg dry	1140	3540	119	80-120	2.80	20	

Dean	Project:	Plains Mewbourne Toro	Fax:	
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										
Blank (P0F3004-BLK1)				Prepared &	Analyzed:	06/30/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	79.5		"	100		79.5	70-130			
Surrogate: o-Terphenyl	38.7		"	50.0		77.5	70-130			
LCS (P0F3004-BS1)				Prepared &	Analyzed:	06/30/20				
C6-C12	993	25.0	mg/kg wet	1000		99.3	75-125			
>C12-C28	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	97.1		"	100		97.1	70-130			
Surrogate: o-Terphenyl	40.7		"	50.0		81.3	70-130			
LCS Dup (P0F3004-BSD1)				Prepared &	Analyzed:	06/30/20				
C6-C12	1050	25.0	mg/kg wet	1000		105	75-125	5.33	20	
>C12-C28	1100	25.0	"	1000		110	75-125	3.79	20	
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	41.9		"	50.0		83 .7	70-130			
Calibration Blank (P0F3004-CCB1)				Prepared &	Analyzed:	06/30/20				
C6-C12	10.6		mg/kg wet							
>C12-C28	19.4		"							
Surrogate: 1-Chlorooctane	85.2		"	100		85.2	70-130			
Surrogate: o-Terphenyl	41.5		"	50.0		82.9	70-130			
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: o-Terphenyl	44.1		"	50.0		88.3	70-130			

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		

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 &	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 &	د 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	
Midland TX, 79707	Project Manager:	Sylwia Reynolds	

Notes and Definitions

- SUB12 Analysis was subcontracted to ARS Port Allen Lousiana.
- ROI Received on Ice
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- BULK Samples received in Bulk soil containers
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:

Bun Barron

Date: 7/17/2020

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

	Dean	Project:	Plains Mewbourne Toro	Fax:
I	12600 W County Rd 91	Project Number:	PP-2061	
	Midland TX, 79707	Project Manager:	Sylwia Reynolds	

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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.

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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

Page 1 of 21

ALS Houston, I	JS				Date: 0)8-Jul-20
Client: Project: Work Order:	Permian Basin Environme 0F26020-1 HS20070019	ental Lab, LP			SAMPLE SUM	MARY
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	

ALS Houston, US

Client: Permian Basin Environmental Lab, LP 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.

CASE NARRATIVE

ALS Houston, US

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	0F26020-1	WorkOrder:HS20070019
Sample ID:	0F26020-1	Lab ID:HS20070019-01
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	lethod: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	и м	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	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

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

Page 4 of 21

Weight / Prep Log

Client:Permian Basin Environmental Lab, LPProject:0F26020-1WorkOrder:HS20070019

	Start Date:	01 Jul 2020 7	14:00	End Date:	02 Jul 2020 07:00
XTRACTION	BY SW1311			Prep Code:	1311LHG EXT
Container	Sample Wt/Vol	Final Volume	Prep Factor		
100	(grams) 2	2000 (mL)	20		
	Start Date:	01 Jul 2020 7	14:00	End Date:	02 Jul 2020 07:00
FRACTION BY	(SW1311			Prep Code:	1311LM EXT
Container	Sample Wt/Vol	Final Volume	Prep Factor		
100	(grams) 2	2000 (mL)	20		
	Start Date:	01 Jul 2020 7	14:00	End Date:	02 Jul 2020 07:00
(TRACTION)				Prep Code:	1311ZHE
Container	Sample Wt/Vol	Final Volume	Prep Factor		
	25 (g)	500 (mL)	20		
	Start Date:	02 Jul 2020 ²	16·00		02 Jul 2020 16:00
			10.00	End Date:	02 Jul 2020 10.00
DIGESTION B	Y SW3010A		10.00		3010A_TCLP
DIGESTION B	Y SW3010A Sample Wt/Vol	Final Volume	Prep Factor		
	Sample	Final	Prep		
	Sample Wt/Vol 1 (mL)	Final Volume	Prep Factor 10	Prep Code:	
	Sample Wt/Vol 1 (mL) Start Date:	Final Volume 10 (mL)	Prep Factor 10	Prep Code:	3010A_TCLP 06 Jul 2020 13:30
Container	Sample Wt/Vol 1 (mL) Start Date:	Final Volume 10 (mL)	Prep Factor 10	Prep Code: End Date:	3010A_TCLP 06 Jul 2020 13:30
	Container 100 TRACTION BY Container 100 (TRACTION)	XTRACTION BY SW1311 Container Sample Wt/Vol 100 (grams) 2 Start Date: TRACTION BY SW1311 Container Sample Wt/Vol 100 (grams) 2 Start Date: (TRACTION) Container Sample Wt/Vol 25 (g)	XTRACTION BY SW1311 Sontainer Sample Wt/Vol Final Volume 100 (grams) 2000 (mL) Start Date: 01 Jul 2020 TRACTION BY SW1311 Container Sample Wt/Vol 100 (grams) 2000 (mL) Start Date: 01 Jul 2020 * TRACTION BY SW1311 Container Sample Wt/Vol 100 (grams) 2000 (mL) Start Date: 01 Jul 2020 * CTRACTION) Start Date: Container Sample Kinal Volume * CTRACTION) Sample Volume	XTRACTION BY SW1311ContainerSample Wt/VolFinal VolumePrep Factor100 (grams)2000 (mL)20Start Date: 01 Jul 2020 14:00TRACTION BY SW1311ContainerSample Wt/VolFinal VolumePrep Factor100 (grams)2000 (mL)20Start Date: 01 Jul 2020 14:00TRACTION BY SW1311ContainerSample Wt/VolFinal VolumePrep Factor100 (grams)2000 (mL)20Start Date: 01 Jul 2020 14:00CTRACTION)ContainerSample Wt/VolFinal VolumePrep Factor25 (g)500 (mL)20	XTRACTION BY SW1311Prep Code:SontainerSample Wt/VolFinal Volume Factor100 (grams)2000 (mL)20Start Date:01 Jul 2020 14:00End Date:TRACTION BY SW1311Prep Code:ContainerSample Wt/VolFinal Volume Factor100 (grams)2000 (mL)20Start Date:01 Jul 2020 14:00End Date:ContainerSample Wt/VolFinal Prep Factor100 (grams)2000 (mL)20Start Date:01 Jul 2020 14:00End Date:ContainerSample Wt/VolFinal Prep FactorPrep Code:ContainerSample Start Date:01 Jul 2020 14:00End Date:ContainerSample Start Date:Sample Start Date:Prep Code:ContainerSample Start Date:Sample Start Date:Prep Start Date:ContainerSample Start Date:Sample Start Date:Prep Start Date:ContainerSample Start Date:Sample Start Date:Prep Start Date:ContainerSample Start Date:Start Date:Start Date:Conta

ALS Houston, US

Client: Project: WorkOrder:	Permiar 0F26020 HS2007	D-1	onmental Lab, LP			DATES RE	PORT
Sample ID	Client Sam	p ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155044	(0)	Test Name :	TCLP VOLATILES			Matrix: Solid	
HS20070019-01	0F26020-1		25 Jun 2020 15:15	02 Jul 2020 11:04	02 Jul 2020 11:10	04 Jul 2020 22:10	20
Batch ID: 155093	(0)	Test Name :	TCLP METALS BY SW6	6020A		Matrix: Solid	
HS20070019-01	0F26020-1		25 Jun 2020 15:15	02 Jul 2020 07:00	02 Jul 2020 16:00	06 Jul 2020 15:24	1
Batch ID: 155166	(0)	Test Name :	TCLP MERCURY BY S	W7470A		Matrix: Solid	
HS20070019-01	0F26020-1		25 Jun 2020 15:15	02 Jul 2020 07:00	06 Jul 2020 11:30	06 Jul 2020 17:05	1
Batch ID: R36454	48(0)	Test Name :	FLASH POINT BY CLE	/ELAND OPEN CUP /	ASTM D92-12B	Matrix: Solid	
HS20070019-01	0F26020-1		25 Jun 2020 15:15			06 Jul 2020 14:00	1
Batch ID: R36472	21(0)	Test Name :	PH SOIL BY SW9045D			Matrix: Solid	
HS20070019-01	0F26020-1		25 Jun 2020 15:15			08 Jul 2020 14:18	1
Batch ID: R36472	24(0)	Test Name :	REACTIVE SULFIDE			Matrix: Solid	
HS20070019-01	0F26020-1		25 Jun 2020 15:15			08 Jul 2020 13:10	1
Batch ID: R36472	26(0)	Test Name :	REACTIVE CYANIDE			Matrix: Solid	
HS20070019-01	0F26020-1		25 Jun 2020 15:15			08 Jul 2020 14:15	1

QC BATCH REPORT

ALS Houston, US

Client:	Permian Basin Environmental Lab, LP
Project:	0F26020-1
WorkOrder:	HS20070019

Batch ID:	155093 (0)	Instr	ument: I	CPMS04	М	ethod: T	CLP METAL	S BY SW60	20A
MBLK	Sample ID:	MBLKT2-155093		Units:	mg/L	Ana	alysis Date:	02-Jul-2020	22:03
Client ID:		Ru	n ID: ICPM	S04_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 Qua
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:		Ru	n ID: ICPM	S04_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 Qua
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						
	Sampla ID:	MDI KT2 155002		Linito		٨٣	alvaia Data:	02 101 2020	22.05

MBLK	Sample ID:	MBLKT3-155093		Units:	mg/L	Ana	alysis Date: 0	02-Jul-2020	22:05
Client ID:		Rur	D: ICPM	604_364390	SeqNo: 5	651511	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						

QC BATCH REPORT

ALS Houston, US

Client:	Permian Basin Environmental Lab, LP
Project:	0F26020-1
WorkOrder:	HS20070019

Batch ID: 15	5093(0)	Inst	rument: I	ICPMS04	Μ	lethod: T		LS BY SW60	20A
MBLK	Sample ID:	MBLKT1-155093		Units:	mg/L	Ana	alysis Date:	02-Jul-2020	22:00
Client ID:		R	un ID: ICPM	S04_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:		R	un ID: ICPM	S04_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	lysis Date:	02-Jul-2020	22:09
Client ID:		R	un ID: ICPMS	604_364390	SeqNo: 5	651513	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		

QC BATCH REPORT

ALS Houston, US

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Client:	Permian Basin Environmental Lab, LP
Project:	0F26020-1
WorkOrder:	HS20070019

Batch ID: 15	5093(0)	Instru	ment:	ICPMS04	M	ethod: 1		LS BY SW60	20A
MS	Sample ID:	HS20061449-01MS		Units:	mg/L	Ana	alysis Date:	02-Jul-2020	22:19
Client ID:		Run	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:	HS20061449-01MSD)	Units:	mg/L	Ana	alysis Date:	02-Jul-2020	22:21

MSD	Sample ID:	HS20061449-01MSI	Units: mg/L Ana			alysis Date: 02-Jul-2020 22:21				
Client ID:		Rur	n ID: ICPMS	604_364390	SeqNo: 5	651517	PrepDate: 0)2-Jul-2020	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	R %RPD Li	PD mit Qual
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: 0	02-Jul-2020	22:23
Client ID:		Ru	In ID: ICPM	S04_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 Qual
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		

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QC BATCH REPORT

ALS Houston, US

Client:	Permian Basin Environmental Lab, LP
Project:	0F26020-1
WorkOrder:	HS20070019

Batch ID: 1	55093 (0)	Instru	ment:	ICPMS04	Me	ethod: 1		S BY SW602	0A	
SD	Sample ID:	HS20061449-01SD		Units:	mg/L	Ana	alysis Date: ()2-Jul-2020 2	2:17	
Client ID:		Run	ID: ICPM	S04_364390	SeqNo: 5	651515	PrepDate: 0	2-Jul-2020	DF	=: 5
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qua
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
	amples were analyze	ed in this batch: HS2007						0.00018		0 10

ALS Houston, US Client: Permian Basin Environmental Lab, LP QC BATCH REPORT **Project:** 0F26020-1 WorkOrder: HS20070019 Batch ID: 155166 (0) Instrument: **HG03** Method: TCLP MERCURY BY SW7470A MBLK Sample ID: MBLKT1-155166 Units: mg/L Analysis Date: 06-Jul-2020 17:02 PrepDate: 06-Jul-2020 Client ID: Run ID: HG03_364560 SeqNo: 5651866 DF·1 SPK Ref Control RPD Ref RPD Analyte PQL SPK Val %REC %RPD Limit Qual Result Value Limit Value ND 0.000200 Mercury MBLK Sample ID: MBLK-155166 Analysis Date: 06-Jul-2020 16:53 Units: mg/L Client ID: Run ID: HG03 364560 SeqNo: 5651861 PrepDate: 06-Jul-2020 DF: 1 SPK Ref Control RPD Ref RPD %RPD Limit Qual Analyte Result PQL SPK Val Value %REC Limit Value Mercury ND 0.000200 LCS Sample ID: LCS-155166 Units: mg/L Analysis Date: 06-Jul-2020 16:55 Client ID: Run ID: HG03 364560 SeqNo: 5651862 PrepDate: 06-Jul-2020 DF: 1 SPK Ref Control RPD Ref RPD %RPD Limit Qual PQL SPK Val %REC Analyte Value Limit Result Value Mercury 0.00504 0.000200 0.005 0 101 80 - 120 MS Sample ID: HS20061508-01MS Units: mg/L Analysis Date: 06-Jul-2020 16:58 Client ID: Run ID: HG03_364560 SeqNo: 5651864 DF: 1 PrepDate: 06-Jul-2020 SPK Ref Control RPD Ref RPD Analyte PQL SPK Val Value %REC Limit %RPD Limit Qual Result Value 75 - 125 Mercury 0.00507 0.000200 0.005 0.000022 101 MSD HS20061508-01MSD Sample ID: Units: mg/L Analysis Date: 06-Jul-2020 17:00 Run ID: HG03_364560 Client ID: SeqNo: 5651865 PrepDate: 06-Jul-2020 DF: 1 SPK Ref RPD Ref RPD Control Analyte Result PQL SPK Val Value %REC Limit %RPD Limit Qual Value 0.00495 0.000200 0.005 0.000022 98.6 75 - 125 0.00507 2.4 20 Mercury The following samples were analyzed in this batch: HS20070019-01

QC BATCH REPORT

ALS Houston, US

Client:	Permian Basin Environmental Lab, LP
Project:	0F26020-1
WorkOrder:	HS20070019

Batch ID: 1550	044(0)	Instrum	ent: \	/OA9	M	ethod: T	CLP VOLA	TILES	
MBLK	Sample ID:	MBLK-155044		Units:	ug/L	Ana	lysis Date:	04-Jul-2020	21:21
Client ID:		Run II	D: 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-Dichlor	oethane-d4	944.2	100	1000	0	94.4	70 - 130		
Surr: 4-Bromoflu	orobenzene	934.7	100	1000	0	93.5	82 - 115		
Surr: Dibromoflu	oromethane	984.8	100	1000	0	98.5	73 - 126		
Surr: Toluene-d8	3	977.3	100	1000	0	97.7	81 - 120		
LCS	Sample ID:	VLCSW-155044		Units:	ug/L	Ana	lysis Date:	04-Jul-2020	12:18
Client ID:		Run II	D: 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-Dichlor	oethane-d4	45.55	5.0	50	0	91.1	70 - 130		
Surr: 4-Bromoflu	orobenzene	50.76	5.0	50	0	102	82 - 115		
Surr: Dibromoflu	oromethane	48.64	5.0	50	0	97.3	73 - 126		
Surr: Toluene-d&	3	49.15	5.0	50	0	98.3	81 - 120		
MS	Sample ID:	HS20070069-03MS		Units:	ug/L	Ana	lysis Date:	04-Jul-2020	17:14
Client ID:		Run II	D: 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

Analyte	Result	PQL	SPK Val	value	%REC	LITTIL	value	%RPD Limit Quar
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 analyzed in this batch: HS20070019-01

QC BATCH REPORT

ALS Houston, US

Client:	Permian Basin Environmental Lab, LP
Project:	0F26020-1
WorkOrder:	HS20070019

Batch ID: R	364548(0)	Instrume	nt:	WetChem_HS	N	vietriou.	FLASH POIN CUP ASTM D		LAND OPEN
DUP	Sample ID:	HS20061508-01DUP		Units: °F	:	Ar	alysis Date:	06-Jul-2020	14:00
Client ID:		Run ID:	We	etChem_HS_364548	SeqNo:	5651166	PrepDate:		DF: 1
Analyte		Result	PQ		SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Flash Point		> 212	50.	0				0	0 30
The following sa	amples were analyze	ed in this batch: HS2007001	9-01						

ALS Houston, US

Client:	Permian Basin Environmental Lab, LP	
Project:	0F26020-1	QC BATCH REPORT
WorkOrder:	HS20070019	

DUP	Sample ID:	HS20070019-01DUP		Units:	pH Units	Ana	alysis Date:	08-Jul-2020	14:18
Client ID:	0F26020-1	Run	ID: WetC	hem_HS_3647	• 21 SeqNo:	5654791	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
рН		7.77	0.100					7.8	0.385 10
Temp Deg	С @рН	24	0					24	0 10

Date: 08-Jul-20

QC BATCH REPORT

ALS Houston, US

Client:	Permian Basin Environmental Lab, LP
Project:	0F26020-1
WorkOrder:	HS20070019

Batch ID: R3647	724(0)	Instrume	ent:	WetChem_HS	Me	ethod: F	REACTIVE S	ULFIDE	
MBLK	Sample ID:	MBLK-R364724		Units: m	g/Kg	Ana	alysis Date:	08-Jul-2020	13:10
Client ID:		Run ID	Wet	Chem_HS_364724	SeqNo: 5	654832	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Reactive Sulfide		ND	100						
LCS	Sample ID:	LCS-R364724		Units: m	g/Kg	Ana	alysis Date:	08-Jul-2020	13:10
Client ID:		Run ID	Wet	Chem_HS_364724	SeqNo: 5	654831	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Reactive Sulfide		72	100	100	0	72.0	20 - 120		
MS	Sample ID:	HS20070019-01MS		Units: m	g/Kg	Ana	alysis Date:	08-Jul-2020	13:10
Client ID: 0F260	20-1	Run ID	Wet	Chem_HS_364724	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		
The following sampl	es were analyze	ed in this batch: [HS200700]	9-01						

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

QC BATCH REPORT

ALS Houston, US

Client:	Permian Basin Environmental Lab, LP
Project:	0F26020-1
WorkOrder:	HS20070019

Batch ID: R3647	26(0)	Instrume	nt:	UV-2450	N	lethod: F	REACTIVE C	YANIDE	
MBLK	Sample ID:	MBLK-R364726		Units:	mg/Kg	Ana	alysis Date:	08-Jul-2020	14:15
Client ID:		Run ID:	UV-2	2450_364726	SeqNo:	5654848	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Reactive Cyanide		ND	100						
LCS	Sample ID:	LCS-R364726		Units:	mg/Kg	Ana	alysis Date:	08-Jul-2020	14:15
Client ID:		Run ID:	UV-2	2450_364726	SeqNo:	5654847	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Reactive Cyanide		0.62	100	10	0	6.20	5 - 100		J
MS	Sample ID:	HS20070019-01MS		Units:	mg/Kg	Ana	alysis Date:	08-Jul-2020	14:15
Client ID: 0F260	20-1	Run ID:	UV-2	2450_364726	SeqNo:	5654849	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Reactive Cyanide		0.65	100	10	0	6.50	5 - 100		J
The following sample	es were analyze	ed in this batch: HS2007001	9-01						

ALS Houston, I	SL	Date: 08-Jul-20
Client: Project: WorkOrder:	Permian Basin Environmental Lab, LP 0F26020-1 HS20070019	QUALIFIERS, ACRONYMS, UNITS
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	
DUP	Method Duplicate	
LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicate	
MBLK	Method Blank	
MDL	Method Detection Limit	
MQL	Method Quantitation Limit	
MS	Matrix Spike	
MSD	Matrix Spike Duplicate	
PDS	Post Digestion Spike	
PQL	Practical Quantitaion Limit	
SD	Serial Dilution	
SDL	Sample Detection Limit	
TRRP	Texas Risk Reduction Program	
Unit Reported	Description	
Date	Milligrams per Liter	
mg/L	winigrams per Liter	

ALS Houston, US

Date: 08-Jul-20

CERTIFICATIONS, ACCREDITATIONS & LICENSES

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

ALS Houston, US

Date: 08-Jul-20

					Sample Receipt (Checklist				
Work Order ID: Client Name:	HS20070019 Permian Basin Lab			/Time Received: ived by:	<u>01-Jul-2020 09:40</u> Paresh M. Giga					
Chefit Name.			Nece	iveu by.	<u>raiesii M. Oiga</u>					
Completed By	: /S/ Bernadette A. Fini	01-Jul-2020 12:19	Reviewed by:							
	eSignature	Date/Time		eSignature	Date/Tin	ne				
Matrices:	<u>solid</u>		Carrier name:	<u>FedEx Pric</u>	ority Overnight					
Custody seals i Custody seals i VOA/TX1005/T Chain of custod Chain of custod Samplers name Chain of custod Samples in prop Sample contain Sufficient samp All samples rec	dy signed when relinquished and e present on COC? dy agrees with sample labels? per container/bottle?	aled vials? received?	Yes Yes Yes Yes Yes Yes Yes Yes	No	Not Present Not Present Not Present Not Present 1 Page(s) COC IDs:0F26020					
Temperature(s))/Thermometer(s):		1.5,1.5 uc/c		IR2	5				
Cooler(s)/Kit(s)			red							
Water - VOA via	ple(s) sent to storage: als have zero headspace? eptable upon receipt?		7-1-20 13:00 Yes Yes	No No	No VOA vials submitted	~				
pH adjusted?			Yes 🗖	No 🗖	N/A 🔽					
pH adjusted by:	:									
Login Notes:										
Client Contacte	ed:	Date Contacted:		Person Cor	tacted:					
Contacted By:		Regarding:								
Comments:										
Corrective Actio	on:									

	Project Manager:	Brent Barron				ECORD AND		Per 140	mia 20 F	in B Ianl	asin I kin H Fexas	WY			ə! La	b, Li	3	. .				F	hone BEL	AB_	SUE	3_CC	C_V	2		
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	Telephone No:	432-661-4184				·-··	Fax No	:	<u>-</u> -						_	118					.1111		1911	•••••		! E E				
	Sampler Signature	: <u>N/A</u>	· .				e-mail	:	bre	ntba	non@	pbe	lab.	com																
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RDE	R #:										Preser	valior	n & #	ol Co	ntaine	rs	M	latrix	-		7 <u>L</u>)					ĺ				
LAB # (jab use only)	1	ELD CODE F26020-1		Beginning Depth	Ending Depth	Date Complete Date Complete 6/25/2020	Lime Sampled	Field Filtered	N Total #. of Containers	X ICE	HNO1280,441			NaCH / ZNAC 250 Poly 1	None Paly 500mL 250mL	PVUZ/HOEN	DW-Dnrking Water	SW - Groundwater S-SoliSolid No-Mun-PorteMo. Storedd Chiner			K METALS, TCLP RCRA 8 BY ICPMS/7	X TCLP BENZENE	8260B COMPLETE	HCD -4051	8270C PAH LL	8260B COMPLETE LIST	8270C SVOC TCLP	TOX 90203	HA	24 HOUR RUSH
cial	Instructions:	······································																												
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RIGHT SOLUTIONS | RIGHT PARTNER

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

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RIGHT SOLUTIONS | RIGHT PARTNER

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APPENDIX E PHOTOGRAPHIC DOCUMENTATION
















APPENDIX F EMAIL DEFERRAL REQUEST OF NMOCD RESPONSE

Jeff Kindley

From:	Amber L Groves <algroves@paalp.com></algroves@paalp.com>
Sent:	Thursday, July 8, 2021 12:17 PM
То:	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 (<u>tibacon@paalp.com</u>) 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,

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

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

From: Eads, Cristina, EMNRD <<u>Cristina.Eads@state.nm.us</u>>
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 <<u>Victoria.Venegas@state.nm.us</u>>

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 | <u>Cristina.Eads@state.nm.us</u> 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 <<u>Cristina.Eads@state.nm.us</u>>; Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>;
Venegas, Victoria, EMNRD <<u>Victoria.Venegas@state.nm.us</u>>;
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: [EXT] RE: 2nd Re-submittal of NRM2015326612 Plains Mewbourne Toro 36 B3BO State Com #1H
Variance/Deferral Request

Good Afternoon, Cristina,

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 <<u>Cristina.Eads@state.nm.us</u>>

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 <<u>Victoria.Venegas@state.nm.us</u>>

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

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'
<<u>Victoria.Venegas@state.nm.us</u>>; Eads, Cristina, EMNRD <<u>Cristina.Eads@state.nm.us</u>>
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: 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 <<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: NRM2015326612 Plains Mewbourne Toro 36 B3BO State Com #1H Variance/Deferral Request

Good Afternoon,

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

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

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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This footnote also confirms that this email message has been scanned for Viruses and Content and cleared.

•

APPENDIX G NMOCD EMAIL RESPONSE TO VARIANCE REQUEST

Elizabeth Stuart

From:	Amber L Groves <algroves@paalp.com></algroves@paalp.com>
Sent:	Tuesday, December 28, 2021 4:10 PM
То:	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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If you no longer wish to receive electronic messages from this sender, please respond and advise accordingly in your return email.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

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

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Action 126225

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