

June 13, 2018

VIA EMAIL: mike.bratcher@state.nm.us

Mike Bratcher NMOCD District 2 811 S. First Street Artesia, NM 88210 O: 575-748-1283 X108 C: 575-626-0857 F: 575-748-9720

Re: Remediation Report for Spill Remediation, Forehand 27 State # 4, Eddy County, New Mexico

Dear Mr. Bratcher:

North Jetty Environmental Services, LLC (North Jetty) appreciates the opportunity to provide this remediation report for Caza Petroleum, Inc. (Caza), to request backfill authorization for the Forehand 27 State #4 remediation in Eddy County, New Mexico.

#### DELINEATION

On January 26, 2018, North Jetty field personnel delineated a produced water spill at the Caza Forehand 27 State #4 (Site) located at 32°16'40.66"N, 104°10'18.05"W in Eddy County, New Mexico. Caza reported a 100 bbl quantity of produced water was lost at the Site and covering approximately 35,800 sq. ft. of the Caza facility, Lucid facility, and state land. This was confirmed during the investigation and photo documentation was used to record the condition during the investigation. The delineation of the Site revealed impacted soil up to three (3') feet below ground surface (bgs). Table 1 presents the laboratory results from the delineation. The site score for this spill is zero (0) with groundwater greater than 100 ft bgs and surface water greater than 1,000 ft from release area. Figure 1 presents the aerial map with sample points. Table 1 presents the laboratory results.

#### **REMEDIATION PLAN**

Between January 26, 2018 and June 1, 2018, North Jetty excavated the impacted area with a backhoe to remove the impacted soil down to 3.0 feet below ground surface (bgs). Soil samples for cleanup confirmation were collected on May 21, 2018 and June 1, 2018. Impacted soil was hauled to disposal. North Jetty will submit a final report to Caza, Lucid, and

PO Box 52483 Midland, Texas 79710 Ph. (432) 897-4988 Fax (432) 897-4977

Caza Petroleum, Inc. Forehand 27 State #4 June 13, 2018

the New Mexico Oil Conservation Division (NMOCD) once the backfill is complete. It is expected to take two (2) days to back fill excavation.

The soil samples were placed in clean 2-ounce jars, sealed, labeled, chilled in an ice chest and delivered under chain of custody to Permian Basin Environmental Labs located in Midland, Texas. The laboratory analyzed the samples for BTEX by SW-8021, TPH by method SW-8015M, and chloride by method E300.

#### **REVEGETATION AND NOXIOUS WEED MANAGEMENT PLAN**

North Jetty proposes to re-seed the native land after backfilling excavation with Warm Season SSR ON OR ABOUT July 1, 2018. The seed will be dispersed at ten (10) pounds per acre with a mechanical spreader. The Site will be monitored for six months on a monthly basis to insure proper growth conditions exist as well as to monitor for noxious weeds. All noxious weeds will be removed mechanically as needed. The seed is approved by BLM and contains no love grass or noxious weed mix. Follow up seeding will be done on an as needed basis. A final report will be generated upon completion of the revegetation.

Equipment decontamination, sample collection, field documentation, sample custody, and laboratory analyses will be in general accordance with industry standards of practice and in conformance with applicable Federal and State regulations. All work will be performed under the supervision of a qualified environmental professional. All laboratory work will be performed under standard turn-around times and costs, unless otherwise directed.

#### AUTHORIZATION

If this report is acceptable to you, please sign below as notice to proceed and return one copy of this plan intact to our office. We will proceed with the work upon receipt of proposal authorization. You may contact me at (325) 669-5735 (cell) to discuss any questions you may have.

Respectfully submitted,

North Jetty Environmental Services, LLC

Coty Woolf President North Jetty Environmental Services, LLC 325.669.5735 cell 432.897.4988 office 432.897.4977 fax cotywoolf@icloud.com

Caza Petroleum, Inc. Forehand 27 State #4 June 13, 2018

#### **AUTHORIZATION**

If this plan is acceptable to you, please sign below as notice to proceed and return one copy of this proposal intact to our office. We will proceed with the work upon receipt of proposal authorization and executed consulting services agreement.

AGREED TO, THIS	 DAY OF	, 2018
BY (please print):	a daar aanaa amaa ahaa ka ahaa ahaa ahaa daara	
TITLE:		
COMPANY:		
SIGNATURE:		

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TABLES

#### Table 1 Soil Samples Analytical Summary Caza Petroleum, Forehand 27 State #4 Eddie County, New Mexico

Boring	Depth Feet BGS	Date	Chloride mg/Kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylene mg/kg	GRÖ mg/Kg	DRO mg/Kg	Oil mg/Kg	Total TPI mg/Kg
RAL:		des internesses									
SS-1	0-1	1/26/2018	21,400	<0.00111	<0.0111	<0.00556	<0.0222	<27.8	<27.8	<27.8	<27.8
	1-2	1/26/2018	17,900			-	100				
	2-3	1/26/2018	17,100				-	-		1722	-
	2-3	5/21/2018	117							144	-
	3-4	5/21/2018	36.0					-		-	
	3-4	5/21/2018	50.0			-		-		-	-
-					Construction of the Grades					1.000.00.0000	
SS-2	0-1	1/26/2018	24,100	<0.00110	<0.0110	<0.00549	<0.0220	<27.5	<27.5	<27.5	<27.5
	1-2	1/26/2018	20,100				100			0.777	
	2-3	1/26/2018	18,800			-					
	2-3	5/21/2018	103	-		_	144				
	3-4	5/21/2018	44.9	-				-			
	54	5/21/2010	44.5						_		-
cc		1/05/0010	40.000	0.00444	0.0444	0.00550	0.0000			07.0	07.0
SS-3	0-1	1/26/2018	18,300	<0.00111	<0.0111	<0.00556	<0.0222	<27.8	<27.8	<27.8	<27.8
	1-2	1/26/2018	12,600	-			(777)		1.77	1.77	
	2-3	1/26/2018	8,190								
	2-3	5/21/2018	101	-	122					1	
	3 - 4	5/21/2018	37.5							100	-
	5-4	5/21/2010	57.5								
SS-4	0-1	1/26/2018	1,510	<0.00109	< 0.0109	<0.00543	<0.0217	<27.2	<27.2	<27.2	<27.2
	1-2	1/26/2018	476							-	
	2-3	1/26/2018	532						1.22	822 5	
	2-3	5/21/2018	83.8				-			1.44	
	3-4	5/21/2018	36.6							-	
	5.4	5/21/2010	50.0				-	-	-		
SS-5	0-1	1/26/2018	2,810	<0.00112	<0.0112	<0.00562	<0.0225	<28.1	<28.1	<28.1	<28.1
	1 - 2	1/26/2018	1,480	-		144	-			0.44	-
	2-3	1/26/2018	465	-		-					-
	2-3	5/21/2018	87.0						-		-
	3-4	5/21/2018	80.6						-		
	5-4	3/21/2010	00.0					-		800	
SS-6	0-1	1/26/2018	29,600	<0.00112	<0.0112	<0.00562	<0.0225	<28.1	<28.1	<28.1	<28.1
	1-2	1/26/2018	15,400	-	1.12					6) ( <u>1997</u>	-
	2-3	1/26/2018	7,920	-						022	-
	2-3	5/21/2018	75.1								
	3-4	C. C. Stranger	17.9			_			_		
	3-4	5/21/2018	17.9	-	0770 0						-
SS-7	0-1	1/26/2018	17,300	<0.00111	<0.0111	<0.00556	<0.0222	<27.8	<27.8	<27.8	<27.8
	1-2	1/26/2018	11,500		· · · ·	-				2.44	
	2-3	1/26/2018	10,800					-	-		
	2-3	5/21/2018	76.5			-		-			100
	3-4	5/21/2018	64.7	-			1			1022	
	3-4	5/21/2010	04.7			-	375)	27.0		1.10	
12121121	0.000				100000000000000000000000000000000000000	Automatica and Automatica	153757600357555			100000000	
SS-8	0-1	1/26/2018	15,500	<0.00109	<0.0109	<0.00543	<0.0217	<27.2	<27.2	<27.2	<27.2
	1-2	1/26/2018	10,400							1.000	
	2-3	1/26/2018	6,760			-					
	2-3	5/21/2018	78.6	-				-			
	3-4	5/21/2018	55.4						_	100	
	3-4	5/21/2010	55.4						-		1
0.5517790	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		le commence l	00000000000	105041044		0.0000000000			i partes	100000000
SS-9	0-1	1/26/2018	22,100	<0.00114	<0.114	<0.00568	<0.0227	<28.4	<28.4	<28.4	<28.4
	1-2	1/26/2018	9,800	-					-	8.00	
	2-3	1/26/2018	9,440								
	2-3	5/21/2018	82.1			144				100	-
	3-4		56.9				-			122	
	5-4	5/21/2018	50.5	-						-	-
				and the second second	10000	Superior States and Co	No. of Concession, Name				755835047+0-0
SS-10	0-1	1/26/2018	16,700	<0.00116	<0.0116	<0.00581	<0.0233	<29.1	<29.1	<29.1	<29.1
	1-2	1/26/2018	6,240	1.77							
	2-3	1/26/2018	6,400	-						-	-
	2-3	5/21/2018	88.4								
	3-4	5/21/2018	56.5	-							-
	5-4	5/21/2018	50.5	-		-			-	-	-
SS-11	0-1	1/26/2018	9,760	<0.00114	<0.0114	<0.00558	<0.0227	<28.4	<28.4	<28.4	<28.4
	1-2	1/26/2018	1,450	-		-	-	-		-	
	2-3	1/26/2018	396	-			1				
	2-3				1000				1	0.11	10.002
	1 12 12 1 1	5/21/2018	91.7			-				-	-
	3-4	5/21/2018	52.2								

# Table 1 Soil Samples Analytical Summary Caza Petroleum, Forehand 27 State # 4 Eddie County, New Mexico

Boring	Depth	Date	Chloride	Benzene	Toluene	Ethylbenzene	Xylene	GRO	DRO	Oil	Total TPH
and the second	Feet BGS	2000	mg/Kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
AL:				No constantes				Constantine (Constantine)			
SS-12	0-1	1/26/2018	1,920	<0.00110	<0.0110	<0.00549	<0.220	<27.5	<27.5	<27.5	<27.5
	1-2	1/26/2018	639	-		-	-				
	2-3	1/26/2018	~ 212	-							-
	2 - 3	5/21/2018	86.1				-				-
	3 - 4	5/21/2018	52.9					-	-		-
SS-13	0-1	1/26/2018	4,630	<0.00122	<0.0122	<0.00610	<0.0244	<30.5	<30.5	<30.5	<30.5
	1-2	1/26/2018	669								
	2-3	1/26/2018	280	-		-	-	-	-		
	3-4	5/21/2018 5/21/2018	3,470 4,820	-				-	_		
	3-4	6/1/2018	<1.10		122					1.000	
	4-5	6/1/2018	7.52								
		0/1/2010	1.52								
SS-14	0-1	1/26/2018	1,150	<0.00116	<0.0116	<0.00581	<0.0233	<29.1	<29.1	<29.1	<29.1
	1-2	1/26/2018	150								-
	2-3	1/26/2018	141	-				_			
	2-3	5/21/2018	3,060								
	3 - 4	5/21/2018	5,090		1-4		-	_		-	
	3-4	6/1/2018	26.8					-			
	4 - 5	6/1/2018	17.1			-			-		
SS-15	0-1	1/26/2018	173	<0.00115	<0.0115	<0.00575	<0.0230	<28.7	<28.7	<28.7	<28.7
	1-2	1/26/2018	79.9		144			-			
	2 - 3	1/26/2018	96.3								
	2 - 3	5/21/2018	3,120	1.000		-	-		-		
	3-4	5/21/2018	4,640	1000	177		-				
	3 - 4	6/1/2018	19.5				-				
	4 - 5	6/1/2018	14.3				-			-	122
		. /									
SS-16	0-1	1/26/2018	3,480	<0.00111	<0.0111	<0.00556	<0.0222	<27.8	<27.8	<27.8	<27.8
	1-2	1/26/2018	366 392	-	-				-		1.00
	2-3	1/26/2018 5/21/2018	2,820	_			-	-	-		
	3-4	5/21/2018	4,390				-				-
	3-4	6/1/2018	81.3						-		-
	4-5	6/1/2018	39.8	-				-			
	4-5	0/1/2018	35.0						-		1.000
SS-17	0-1	1/26/2018	981	<0.00114	<0.0114	<0.00568	<0.0227	<28.4	<28.4	<28.4	<28.4
	1-2	1/26/2018	182								
	2-3	1/26/2018	96.6			-					
	2-3	5/21/2018	3,790								
	3-4	5/21/2018	4,550			-					
	3-4	6/1/2018	42.1	-							
	4 - 5	6/1/2018	57.8	-	144		100			-	1.2
SS-18	0-1	1/26/2018	2,090	<0.00120	<0.0120	<0.00602	<0.0241	<30.1	<30.1	<30.1	<30.1
	1 - 2	1/26/2018	2,350		100				-		
	2 - 3	1/26/2018	479	-		-	-	-		-	1925
	2 - 3	5/21/2018	4,080				122			-	
	3 - 4	5/21/2018	4,790								
	3 - 4	6/1/2018	86.5	-	200	-		-	-	-	877
	4 - 5	6/1/2018	53.1	-	177	-	-				
SS-19	0.1	1/26/2010	76.8	<0.00147	10 0147	<0.00735	10 0 204	125.0	125.0	(20.0	000
22-12	0-1	1/26/2018	1 SACA 1	<0.00147	<0.0147		<0.0294	<36.8	<36.8	<36.8	<36.8
	1-2 2-3	1/26/2018	60.6							-	_
		1/26/2018	307		1.				-		0.00
		6/1/2010	1/0								
	3 - 4	6/1/2018	14.8	-						-	
		6/1/2018 6/1/2018	14.8 35.7	-	-	-		-	-		-
SP-1	3 - 4					 <0.00543					

Notes: Analysis performed by Prmian Basin Environmental Lab, Midland, Texas Samples analyzed via EPA method SW-8015M (TPH) and SW-300 (chloride). Depth measurements are in feet below ground surface (bgs). All concentrations are in milligrams per kilogram (mg/Kg) equivalent to parts per million (ppm).

**FIGURES** 



## **APPPENDIX A**

Laboratory Reports

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



## Analytical Report

## **Prepared for:**

Coty Woolf North Jetty Environmental Services 5004 Whitman Drive Midland, TEXAS 79705

Project: Caza Forehand 27 State #4 Project Number: 18-0126 Location: NM

Lab Order Number: 8A29004



NELAP/TCEQ # T104704516-17-8

Report Date: 02/05/18

Project:Caza Forehand 27 State #4Project Number:18-0126Project Manager:Coty Woolf

#### ANALYTICAL REPORT FOR SAMPLES

8x10-1         8x2904-01         Sail         01/26/18 10:00         01-29-2018 13:30           Sx11-2         8x2904-02         Sail         01/26/18 10:01         01-29-2018 13:30           Sx1-2-3         8x2904-04         Sail         01/26/18 10:10         01-29-2018 13:30           Sx2-1-1         8x2904-04         Sail         01/26/18 10:15         01-29-2018 13:30           Sx2-1-2         8x2904-06         Sail         01/26/18 10:25         01-29-2018 13:30           Sx3-1-2         8x2904-06         Sail         01/26/18 10:35         01-29-2018 13:30           Sx3-1-2         8x2904-07         Sail         01/26/18 10:35         01-29-2018 13:30           Sx3-1-2         8x2904-06         Sail         01/26/18 10:35         01-29-2018 13:30           Sx4-1-1         8x2904-10         Sail         01/26/18 10:40         01-29-2018 13:30           Sx4-1-2         8x2904-11         Sail         01/26/18 10:45         01-29-2018 13:30           Sx4-1-2         8x2904-14         Sail         01/26/18 11:65         01-29-2018 13:30           Sx5-1-3         8x2904-14         Sail         01/26/18 11:65         01-29-2018 13:30           Sx5-1-4         8x2904-15         Sail         01/26/18 11:65         01-29-2018	Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-12-3       SA29004-04       Soil       01261810.01       01-29-201813.30         SS-2 0-1       SA29004-05       Soil       01261810.15       01-29-201813.30         SS-2 1-2       SA29004-06       Soil       01261810.20       01-29-201813.30         SS-2 1-2       SA29004-06       Soil       01261810.25       01-29-201813.30         SS-3 1-2       SA29004-06       Soil       01261810.35       01-29-201813.30         SS-3 1-2       SA29004-07       Soil       01261810.35       01-29-201813.30         SS-3 1-2       SA29004-00       Soil       01261810.35       01-29-201813.30         SS-4 0-1       SA29004-10       Soil       01261810.45       01-29-201813.30         SS-4 1-2       SA29004-11       Soil       01261811.05       01-29-201813.30         SS-4 1-2       SA29004-12       Soil       01261811.10       01-29-201813.30         SS-5 1-2       SA29004-13       Soil       01261811.10       01-29-201813.30         SS-5 1-2       SA29004-16       Soil       01261811.10       01-29-201813.30         SS-5 1-2       Sa29004-16       Soil       01261811.10       01-29-201813.30         SS-6 1-1       Sa29004-16       Soil       01261811.10       01-29-20	SS-1 0-1	8A29004-01	Soil	01/26/18 10:00	01-29-2018 13:30
S-2 0-1 $S-2200+14$ $Sol1$ $0.120+18+10.15$ $0.1-29-2018+13.30$ $S-2$ 1-2 $S-200+05$ $Sol1$ $0.126+18+10.20$ $0.1-29-2018+13.30$ $S-2$ 2-3 $S-200+06$ $Sol1$ $0.126+18+10.25$ $0.129-2018+13.30$ $S-3$ 1-1 $S-200+07$ $Sol1$ $0.126+18+10.30$ $0.12-9-2018+13.30$ $S-3$ 1-2 $S-200+07$ $Sol1$ $0.126+18+10.30$ $0.12-9-2018+13.30$ $S-3$ 1-2 $S-200+09$ $Sol1$ $0.126+18+10.40$ $0.12-9-2018+13.30$ $S-4 0-1$ $Sol2$ $0.126+18+10.40$ $0.12-9-2018+13.30$ $S-4 0-1$ $Sol2$ $0.126+18+10.40$ $0.12-9-2018+13.30$ $S-4 0-1$ $Sol2$ $0.126+18+10.50$ $0.12-9-2018+13.30$ $S-4 1-2$ $S-200+11$ $Sol1$ $0.126+18+10.50$ $0.12-9-2018+13.30$ $S-5 1-2$ $S-200+14$ $Sol1$ $0.126+18+11.50$ $0.12-9-2018+13.30$ $S-5 4-1$ $S-200+14$ $Sol1$ $0.126+18+11.50$ $0.12-9-2018+13.30$ $S-5 4-1$ $S-200+15$ $Sol1$ $0.126+18+11.50$ $0.12-9-2018+13.30$ $S-5 4-1$ $S-200+15$ $Sol1$ $0.126+18+11.50$ $0.12-9-2018+13.30$ $S-5 7-1$ $S-200+16$ $Sol1$ $0.126+18+11.50$ $0.12-9-2018+13.30$ $S-5 7-1$ $S-200+16$ $Sol1$ $0.126+18+11.50$ $0.12-9-2018+13.30$ $S-5 7-1$ $S-200+20Sol10.126+18+11.500.12-9-2018+13.30S-5 7-1S-200+20Sol10.126+18+11.500.12-9-2018+13.30S-5 7-1S-200+20$	SS-1 1-2	8A29004-02	Soil	01/26/18 10:05	01-29-2018 13:30
Sk - 2 1 - 2 $Ra29004-05$ $Sail$ $01/26/18/10.20$ $01-29-2018/13.30$ $Sk - 2 - 23$ $Ra29004-06$ $Sail$ $01/26/18/10.25$ $01-29-2018/13.30$ $Sk - 3 - 1$ $Ra29004-07$ $Sail$ $01/26/18/10.30$ $01-29-2018/13.30$ $Sk - 3 - 12$ $Ra29004-08$ $Sail$ $01/26/18/10.35$ $01-29-2018/13.30$ $Sk - 3 - 12$ $Ra29004-10$ $Sail$ $01/26/18/10.45$ $01-29-2018/13.30$ $Sk - 4 - 14$ $Ra29004-10$ $Sail$ $01/26/18/10.45$ $01-29-2018/13.30$ $Sk - 4 - 12$ $Ra29004-11$ $Sail$ $01/26/18/10.45$ $01-29-2018/13.30$ $Sk - 4 - 12$ $Ra29004-12$ $Sail$ $01/26/18/11.05$ $01-29-2018/13.30$ $Sk - 5 - 12$ $Ra29004-13$ $Sail$ $01/26/18/11.05$ $01-29-2018/13.30$ $Sk - 5 - 12$ $Ra29004-12$ $Sail$ $01/26/18/11.05$ $01-29-2018/13.30$ $Sk - 5 - 23$ $Ra29004-13$ $Sail$ $01/26/18/11.05$ $01-29-2018/13.30$ $Sk - 6 - 2$ $Ra29004-16$ $Sail$ $01/26/18/11.55$ $01-29-2018/13.30$ $Sk - 7 - 2$ $Ra29004-16$ $Sail$ $01/26/18/11.55$ $01-29-2018/13.30$ $Sk - 7 - 2$ $Ra29004-16$ $Sail$ $01/26/18/11.55$ $01-29-2018/13.30$ $Sk - 7 - 2$ $Ra29004-16$ $Sail$ $01/26/18/11.55$ $01-29-2018/13.30$ $Sk - 7 - 2$ $Ra29004-16$ $Sail$ $01/26/18/11.55$ $01-29-2018/13.30$ $Sk - 7 - 2$ $Ra29004-21$ $Sail$ $01/26/18/11.55$ $01-29-2018/13.30$ $Sk - 7 - 2$	SS-1 2-3	8A29004-03	Soil	01/26/18 10:10	01-29-2018 13:30
S2 2-3       8A29004-06       Soil       01/26/18/10.25       01-29-2018/13.30         S8-3 0-1       8A29004-07       Soil       01/26/18/10.35       01-29-2018/13.30         S8-3 1-2       8A29004-08       Soil       01/26/18/10.45       01-29-2018/13.30         S8-3 2-3       8A29004-09       Soil       01/26/18/10.45       01-29-2018/13.30         S8-4 0-1       8A29004-10       Soil       01/26/18/10.45       01-29-2018/13.30         S8-4 1-2       8A29004-12       Soil       01/26/18/10.45       01-29-2018/13.30         S8-4 2-3       8A29004-13       Soil       01/26/18/10.55       01-29-2018/13.30         S8-5 0-1       8A29004-13       Soil       01/26/18/11.05       01-29-2018/13.30         S8-5 0-1       8A29004-16       Soil       01/26/18/11.05       01-29-2018/13.30         S8-5 0-1       8A29004-16       Soil       01/26/18/11.05       01-29-2018/13.30         S8-6 0-1       8A29004-16       Soil       01/26/18/11.05       01-29-2018/13.30         S8-6 0-1       8A29004-16       Soil       01/26/18/11.05       01-29-2018/13.30         S8-6 0-1       8A29004-17       Soil       01/26/18/11.05       01-29-2018/13.30         S8-7 0-1       8A29004-20       Soil	SS-2 0-1	8A29004-04	Soil	01/26/18 10:15	01-29-2018 13:30
S3 0-1       Sa29004-07       Sail       0.126/18 10.30       0.129-2018 13.30         S53 1-2       SA29004-08       Sail       0.126/18 10.35       0.129-2018 13.30         S53 2-3       SA29004-09       Sail       0.126/18 10.45       0.129-2018 13.30         S54 0-1       SA29004-10       Sail       0.126/18 10.45       0.129-2018 13.30         S54 1-2       SA29004-11       Sail       0.126/18 10.65       0.129-2018 13.30         S54 5-1       SA29004-13       Sail       0.126/18 11.05       0.129-2018 13.30         S54 5-2       SA29004-13       Sail       0.126/18 11.05       0.129-2018 13.30         S54 5-2       SA29004-15       Sail       0.126/18 11.15       0.129-2018 13.30         S54 5-2       SA29004-15       Sail       0.126/18 11.15       0.129-2018 13.30         S54 5-2       SA29004-16       Sail       0.126/18 11.15       0.129-2018 13.30         S54 5-2       SA29004-16       Sail       0.126/18 11.25       0.129-2018 13.30         S54 5-2       SA29004-16       Sail       0.126/18 11.35       0.129-2018 13.30         S54 5-1       SA29004-16       Sail       0.126/18 11.35       0.129-2018 13.30         S54 5-1       SA29004-16       Sail       <	SS-2 1-2	8A29004-05	Soil	01/26/18 10:20	01-29-2018 13:30
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SS-8 2-38A29004-24Soil01/26/18 12:0001-29-2018 13:30SS-9 0-18A29004-25Soil01/26/18 12:0501-29-2018 13:30SS-9 1-28A29004-26Soil01/26/18 12:1001-29-2018 13:30SS-9 2-38A29004-27Soil01/26/18 12:1501-29-2018 13:30SS-10 0-18A29004-28Soil01/26/18 12:2001-29-2018 13:30SS-10 1-28A29004-29Soil01/26/18 12:2501-29-2018 13:30SS-10 2-38A29004-30Soil01/26/18 12:3001-29-2018 13:30SS-11 0-18A29004-31Soil01/26/18 13:3001-29-2018 13:30SS-11 1-28A29004-32Soil01/26/18 13:3501-29-2018 13:30SS-11 2-38A29004-33Soil01/26/18 13:3501-29-2018 13:30	SS-8 0-1	8A29004-22	Soil	01/26/18 11:50	01-29-2018 13:30
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SS-11 2-3 Soil 01/26/18 13:40 01-29-2018 13:30	SS-11 0-1	8A29004-31	Soil	01/26/18 13:30	01-29-2018 13:30
	SS-11 1-2	8A29004-32	Soil	01/26/18 13:35	01-29-2018 13:30
SS-12 0-1 Soil 01/26/18 13:45 01-29-2018 13:30	SS-11 2-3	8A29004-33	Soil	01/26/18 13:40	01-29-2018 13:30
	SS-12 0-1	8A29004-34	Soil	01/26/18 13:45	01-29-2018 13:30

Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

#### ANALYTICAL REPORT FOR SAMPLES

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SS-13 0-1	8A29004-37	Soil	01/26/18 14:00	01-29-2018 13:30
SS-13 1-2	8A29004-38	Soil	01/26/18 14:05	01-29-2018 13:30
SS-13 2-3	8A29004-39	Soil	01/26/18 14:10	01-29-2018 13:30
SS-14 0-1	8A29004-40	Soil	01/26/18 14:15	01-29-2018 13:30
SS-14 1-2	8A29004-41	Soil	01/26/18 14:20	01-29-2018 13:30
SS-14 2-3	8A29004-42	Soil	01/26/18 14:25	01-29-2018 13:30
SS-15 0-1	8A29004-43	Soil	01/26/18 14:30	01-29-2018 13:30
SS-15 1-2	8A29004-44	Soil	01/26/18 14:35	01-29-2018 13:30
SS-15 2-3	8A29004-45	Soil	01/26/18 14:40	01-29-2018 13:30
SS-16 0-1	8A29004-46	Soil	01/26/18 14:45	01-29-2018 13:30
SS-16 1-2	8A29004-47	Soil	01/26/18 14:50	01-29-2018 13:30
SS-16 2-3	8A29004-48	Soil	01/26/18 14:55	01-29-2018 13:30
SS-17 0-1	8A29004-49	Soil	01/26/18 15:00	01-29-2018 13:30
SS-17 1-2	8A29004-50	Soil	01/26/18 15:05	01-29-2018 13:30
SS-17 2-3	8A29004-51	Soil	01/26/18 15:10	01-29-2018 13:30
SS-18 0-1	8A29004-52	Soil	01/26/18 15:15	01-29-2018 13:30
SS-18 1-2	8A29004-53	Soil	01/26/18 15:20	01-29-2018 13:30
SS-18 2-3	8A29004-54	Soil	01/26/18 15:25	01-29-2018 13:30
SS-19 0-1	8A29004-55	Soil	01/26/18 15:30	01-29-2018 13:30
SS-19 1-2	8A29004-56	Soil	01/26/18 15:35	01-29-2018 13:30
SS-19 2-3	8A29004-57	Soil	01/26/18 15:40	01-29-2018 13:30
SP-1	8A29004-58	Soil	01/26/18 12:45	01-29-2018 13:30

#### SS-1 0-1 8A29004-01 (Soil)

Reporting Units Dilution Batch Prepared Analyzed Method Notes Result Limit Analyte Permian Basin Environmental Lab, L.P. Organics by GC ND Benzene 0.00111 mg/kg dry 1 P8A3109 01/30/18 01/30/18 EPA 8021B Toluene ND 0.0111 mg/kg dry 1 P8A3109 01/30/18 01/30/18 EPA 8021B Ethylbenzene ND 0.00556 mg/kg dry 1 P8A3109 01/30/18 01/30/18 EPA 8021B mg/kg dry 1 P8A3109 01/30/18 EPA 8021B Xylene (p/m) ND 0.0222 01/30/18 1 P8A3109 01/30/18 EPA 8021B Xylene (o) ND 0.0111 mg/kg dry 01/30/18 01/30/18 EPA 8021B Surrogate: 1,4-Difluorobenzene 101 % P8A3109 01/30/18 75-125 Surrogate: 4-Bromofluorobenzene 115 % 75-125 P8A3109 01/30/18 01/30/18 EPA 8021B **General Chemistry Parameters by EPA / Standard Methods** 21400 mg/kg dry 50 P8A3006 EPA 300.0 Chloride 55.6 01/30/18 01/30/18 % Moisture 10.0 0.1 % 1 P8B0101 02/01/18 02/01/18 ASTM D2216 Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M P8A3104 TPH 8015M C6-C12 ND 27.8mg/kg dry 1 01/30/18 01/30/18 >C12-C28 ND 1 P8A3104 TPH 8015M 27.8 mg/kg dry 01/30/18 01/30/18 >C28-C35 ND 27.8 mg/kg dry 1 P8A3104 01/30/18 01/30/18 TPH 8015M 01/30/18 01/30/18 TPH 8015M Surrogate: 1-Chlorooctane 125 % P8A3104 70-130 Surrogate: o-Terphenyl 136 % 70-130 P8A3104 01/30/18 01/30/18 TPH 8015M S-GC Total Petroleum Hydrocarbon C6-C35 ND 27.8 mg/kg dry 1 [CALC] 01/30/18 01/30/18 calc

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

## SS-1 1-2

#### 8A29004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	in Basin E	nvironmer	ıtal Lab, I	<b>P</b> .				
<b>General Chemistry Parameters by EP</b>	A / Standard Methods								
Chloride	17900	56.2	mg/kg dry	50	P8A3006	01/30/18	01/30/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

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.

Fax:

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			S-1 2-3 )04-03 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, l	L <b>.P.</b>				
<b>General Chemistry Paramet</b>	ers by EPA / Standard Methods								
Chloride	17100	55.6	mg/kg dry	50	P8A3006	01/30/18	01/30/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

10.0

Permian Basin Environmental Lab, L.P.

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

	SS-2 0-1 8A29004-04 (Soil)										
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
	Perr	nian Basin F	Environmen	tal Lab,	L <b>.P.</b>						
Organics by GC											
Benzene	ND	0.00110	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B			
Toluene	ND	0.0110	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B			
Ethylbenzene	ND	0.00549	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B			
Xylene (p/m)	ND	0.0220	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B			
Xylene (o)	ND	0.0110	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B			
Surrogate: 4-Bromofluorobenzene		96.6 %	75-12	25	P8A3109	01/30/18	01/30/18	EPA 8021B			
Surrogate: 1,4-Difluorobenzene		103 %	75-12	25	P8A3109	01/30/18	01/30/18	EPA 8021B			
General Chemistry Parameters by E	PA / Standard Methoo	ls									
Chloride	24100	54.9	mg/kg dry	50	P8A3006	01/30/18	01/30/18	EPA 300.0			
% Moisture	9.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216			
<u>Total Petroleum Hydrocarbons C6-C</u>	35 by EPA Method 80	015M									
C6-C12	ND	27.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M			
>C12-C28	ND	27.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M			
>C28-C35	ND	27.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M			
Surrogate: 1-Chlorooctane		117 %	70-1.	30	P8A3104	01/30/18	01/30/18	TPH 8015M			
Surrogate: o-Terphenyl		129 %	70-1.	30	P8A3104	01/30/18	01/30/18	TPH 8015M			

27.5 mg/kg dry

1

[CALC]

01/30/18

01/30/18

calc

ND

North Jetty Environmental Services 5004 Whitman Drive		Proje Project Numb		orehand 27 6	State #4			Fax:	
Midland TEXAS, 79705	I	Project Manag	er: Coty W	/oolf					
		SS	5-2 1-2						
		8A290	04-05 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin Ei	nvironme	ntal Lab, 1	L.P.				
General Chemistry Parameters by EPA	Standard Methods	8							
Chloride	20100	56.2	mg/kg dry	50	P8A3006	01/30/18	01/30/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

11.0

% Moisture

North Jetty Environmental Services 5004 Whitman Drive Midland TEXAS, 79705	Project:Caza Forehand 27 State #4Fax:Project Number:18-0126Project Manager:Coty Woolf									
			5-2 2-3 04-06 (Se	oil)						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
	Perm	ian Basin Ei	ivironme	ental Lab, I	<b>P.</b>					

56.2 mg/kg dry

%

0.1

18800

11.0

50

1

P8A3006

P8B0101

01/30/18

02/01/18

01/30/18

02/01/18

EPA 300.0

ASTM D2216

Chloride

% Moisture

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

		S	S-3 0-1						
		8A29	004-07 (Soil	)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Peri	mian Basin I	Environmen	tal Lab, I	L. <b>P.</b>				
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		83.1 %	75-12	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.8 %	75-12	5	P8A3109	01/30/18	01/30/18	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Metho	ds							
Chloride	18300	55.6	mg/kg dry	50	P8A3006	01/30/18	01/30/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 8(	015M							
C6-C12	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		121 %	70-13	0	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-13	0	P8A3104	01/30/18	01/30/18	TPH 8015M	S-G

27.8 mg/kg dry

1

[CALC]

01/30/18

01/30/18

calc

ND

Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf Fax:

			8-3 1-2 )04-08 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironme	ntal Lab, I	L. <b>P.</b>				
<u>General Chemistry Parameter</u> Chloride	<u>rs by EPA / Standard Method</u> 12600	S		50	P8A3006			EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

10.0

Permian Basin Environmental Lab, L.P.

North Jetty Environmental Services 5004 Whitman Drive Midland TEXAS, 79705	Project: Caza Forehand 27 State #4 F Project Number: 18-0126 Project Manager: Coty Woolf										
		SS	S-3 2-3 04-09 (So								
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
	Perm	ian Basin Ei	nvironme	ntal Lab, 1	L <b>.P.</b>						
General Chemistry Parameters by EPA	Standard Methods	8									
Chloride	8190	53.8	mg/kg dry	50	P8A3006	01/30/18	01/30/18	EPA 300.0			

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

7.0

% Moisture

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

		S	SS-4 0-1						
		8A29	004-10 (Soi	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin H	Environmer	ntal Lab, 1	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00109	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		78.8 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.4 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Methoo	ls							
Chloride	1510	10.9	mg/kg dry	10	P8A3006	01/30/18	01/31/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	015M							
C6-C12	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	

27.2 mg/kg dry

1

[CALC]

01/30/18

01/30/18

calc

ND

Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf Fax:

			S-4 1-2 004-11 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, 1	L <b>.P.</b>				
<b>General Chemistry Paramet</b>	ters by EPA / Standard Methods								
Chloride	476	10.8	mg/kg dry	10	P8A3006	01/30/18	01/31/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

7.0

Permian Basin Environmental Lab, L.P.

North Jetty Environmental Services 5004 Whitman Drive			Fax:						
Midland TEXAS, 79705	I	Project Manag	er: Coty W	/oolf					
		S	5-4 2-3						
		8A290	04-12 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin Ei	ıvironme	ntal Lab, I	L.P.				
General Chemistry Parameters by EPA	Standard Methods	8							
Chloride	532	10.8	mg/kg dry	10	P8A3006	01/30/18	01/31/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

7.0

% Moisture

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			58-5 0-1 004-13 (Soil	)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Perr	nian Basin H	Environmen	tal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00112	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0112	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00562	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0225	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0112	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.8 %	75-12	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-12	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	2810	11.2	mg/kg dry	10	P8A3006	01/30/18	01/31/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	015M							
C6-C12	ND	28.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-13	80	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-13	80	P8A3104	01/30/18	01/30/18	TPH 8015M	

28.1 mg/kg dry

1

[CALC]

01/30/18

01/30/18

calc

ND

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			S-5 1-2 )04-14 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	n Basin E	nvironme	ntal Lab, l	<b>.</b> .				
<b>General Chemistry Parame</b>	ters by EPA / Standard Methods								
Chloride	1480	11.2	mg/kg dry	10	P8A3006	01/30/18	01/31/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

11.0

Permian Basin Environmental Lab, L.P.

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

SS-5 2-3 8A29004-15 (Soil)												
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
	Perm	ian Basin E	nvironme	ntal Lab, l	L <b>.P.</b>							
<b>General Chemistry Paramet</b>	ters by EPA / Standard Methods											
Chloride	465	27.2	mg/kg dry	25	P8A3006	01/30/18	01/31/18	EPA 300.0				

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

8.0

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

		S	SS-6 0-1						
		8A29	004-16 (Soi	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin H	Invironme	ital Lab, 1	L. <b>P.</b>				
Organics by GC									
Benzene	ND	0.00112	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0112	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00562	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0225	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0112	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.8 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.2 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	29600	56.2	mg/kg dry	50	P8A3006	01/30/18	01/31/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	
<u>Total Petroleum Hydrocarbons C6-C</u>	35 by EPA Method 80	)15M							
C6-C12	ND	28.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	

28.1 mg/kg dry

1

[CALC]

01/30/18

01/30/18

calc

ND

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

## SS-6 1-2

## 8A29004-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Permian Basin Environmental Lab, L.P.											
General Chemistry Parameters by EPA	A / Standard Methods										
Chloride	15400	56.2	mg/kg dry	50	P8A3006	01/30/18	01/31/18	EPA 300.0			
% Moisture	11.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216			

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.

Fax:

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

SS-	6	2-	3

#### 8A29004-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironmei	ntal Lab, I	<b>P</b> .				
General Chemistry Parameters by	y EPA / Standard Methods								
Chloride	7920	54.9	mg/kg dry	50	P8A3006	01/30/18	01/31/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			SS-7 0-1 004-19 (Soi	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin I	Environmer	ital Lab, I	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.3 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		80.5 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	17300	55.6	mg/kg dry	50	P8A3006	01/30/18	01/31/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	015M							
C6-C12	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	

27.8 mg/kg dry

1

[CALC]

01/30/18

01/30/18

calc

ND

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			S-7 1-2 )04-20 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	n Basin E	nvironme	ntal Lab, I	L <b>.P.</b>				
<b>General Chemistry Paramet</b>	ters by EPA / Standard Methods								
Chloride	11500	54.3	mg/kg dry	50	P8A3113	01/31/18	02/01/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

8.0

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			il)					
Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permia	n Basin E	nvironme	ntal Lab, I	L <b>.P.</b>				
y EPA / Standard Methods								
	Permia	8A290 Result Reporting Limit Permian Basin E by EPA / Standard Methods	Reporting Result Limit Units Permian Basin Environmen by EPA / Standard Methods	8A29004-21 (Soil)          Reporting         Result         Limit       Units       Dilution         Permian Basin Environmental Lab, I         oy EPA / Standard Methods	8A29004-21 (Soil)         Reporting Result         Limit       Units       Dilution       Batch         Permian Basin Environmental Lab, L.P.         by EPA / Standard Methods	8A29004-21 (Soil)         Reporting Limit Units Dilution Batch Prepared         Permian Basin Environmental Lab, L.P.         by EPA / Standard Methods	8A29004-21 (Soil)         Reporting Limit Units Dilution Batch Prepared Analyzed         Permian Basin Environmental Lab, L.P.         by EPA / Standard Methods	8A29004-21 (Soil)         Reporting Limit Units Dilution Batch Prepared Analyzed Method         Permian Basin Environmental Lab, L.P.         by EPA / Standard Methods

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

10.0

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

SS-8 0-1 8A29004-22 (Soil)										
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
	Perr	nian Basin H	Environmen	tal Lab, I	L. <b>P.</b>					
Organics by GC										
Benzene	ND	0.00109	mg/kg dry	1	P8A3109	01/30/18	01/31/18	EPA 8021B		
Toluene	ND	0.0109	mg/kg dry	1	P8A3109	01/30/18	01/31/18	EPA 8021B		
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8A3109	01/30/18	01/31/18	EPA 8021B		
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8A3109	01/30/18	01/31/18	EPA 8021B		
Xylene (o)	ND	0.0109	mg/kg dry	1	P8A3109	01/30/18	01/31/18	EPA 8021B		
Surrogate: 1,4-Difluorobenzene		83.1 %	75-1.	25	P8A3109	01/30/18	01/31/18	EPA 8021B		
Surrogate: 4-Bromofluorobenzene		88.9 %	75-1.	25	P8A3109	01/30/18	01/31/18	EPA 8021B		
General Chemistry Parameters by E	PA / Standard Method	ls								
Chloride	15500	54.3	mg/kg dry	50	P8A3113	01/31/18	02/01/18	EPA 300.0		
% Moisture	8.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216		
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M								
C6-C12	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M		
>C12-C28	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M		
>C28-C35	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M		
Surrogate: 1-Chlorooctane		108 %	70-1.	30	P8A3104	01/30/18	01/30/18	TPH 8015M		
Surrogate: o-Terphenyl		121 %	70-1.	30	P8A3104	01/30/18	01/30/18	TPH 8015M		

27.2 mg/kg dry

1

[CALC]

01/30/18

01/30/18

calc

ND

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

SS-	8	1-2

#### 8A29004-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Permian Basin Environmental Lab, L.P.										
<u>General Chemistry Parameters h</u>	oy EPA / Standard Methods									
Chloride	10400	27.5	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0		
% Moisture	9.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216		

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			S-8 2-3 004-24 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, l	L <b>.P.</b>				
<b>General Chemistry Paramet</b>	ters by EPA / Standard Methods								
Chloride	6760	27.5	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

9.0

Total Petroleum Hydrocarbon C6-C35

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			5S-9 0-1 004-25 (Soi	il)					
		Reporting	, , , , , , , , , , , , , , , , , , ,	,				M.d. 1	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin H	Environmer	ital Lab, I	L.P.				
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		80.8 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	22100	56.8	mg/kg dry	50	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	

28.4 mg/kg dry

1

[CALC]

01/30/18

01/30/18

calc

ND

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			S-9 1-2 )04-26 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, l	L. <b>P.</b>				
<b>General Chemistry Paramete</b>	ers by EPA / Standard Methods								
Chloride	9800	28.4	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

12.0

North Jetty Environmental Services 5004 Whitman Drive Midland TEXAS, 79705	Project:Caza Forehand 27 State #4Fax:Project Number:18-0126Project Manager:Coty Woolf									
			8-9 2-3 004-27 (So	il)						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
	Perm	ian Basin E	nvironme	ntal Lab, I	L.P.					
General Chemistry Parameters by EPA	Standard Methods									
Chloride	9440	28.4	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0		

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

12.0

Permian Basin Environmental Lab, L.P.

% Moisture

Г

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

## SS-10 0-1

## 8A29004-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmer	ital Lab, 1	L.P.				
Organics by GC									
Benzene	ND	0.00116	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0116	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00581	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0233	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0116	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		82.6 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
Chloride	16700	58.1	mg/kg dry	50	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	14.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	oy EPA Method 80	15M							
C6-C12	ND	29.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	-
Surrogate: o-Terphenyl		126 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

Fax:

### 8A29004-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	an Basin E	nvironmei	ntal Lab, I	L <b>.P.</b>				
General Chemistry Parameters by El	PA / Standard Methods								
Chloride	6240	28.7	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	13.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Fax:

SS-10 2-3	
8A29004-30 (Soil)	

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironmei	ntal Lab, I	<b></b>				
<b>General Chemistry Parameters by EPA</b>	/ Standard Methods								
Chloride	6400	28.7	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	13.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Permian Basin Environmental Lab, L.P.

Analyte

Benzene

Toluene

Ethylbenzene

Xylene (p/m)

Surrogate: 1,4-Difluorobenzene

Xylene (o)

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

Notes

S-GC

#### SS-11 0-1 8A29004-31 (Soil) Reporting Result Dilution Analyzed Method Limit Units Batch Prepared Permian Basin Environmental Lab, L.P. Organics by GC ND 0.00114 mg/kg dry P8A3109 EPA 8021B 1 01/30/18 01/30/18 0.0114 mg/kg dry 1 P8A3109 EPA 8021B ND 01/30/18 01/30/18 ND 0.00568 mg/kg dry 1 P8A3109 01/30/18 EPA 8021B 01/30/18 ND 0.0227 mg/kg dry 1 P8A3109 01/30/18 01/30/18 EPA 8021B 0.0114 mg/kg dry 1 P8A3109 EPA 8021B ND 01/30/18 01/30/18 Surrogate: 4-Bromofluorobenzene 131 % 75-125 P8A3109 01/30/18 01/30/18 EPA 8021B

General Chemistry Parameters by EPA/	Standard Methods							
Chloride	9760	56.8	mg/kg dry	50	P8A3113	01/31/18	02/01/18	EPA 300.0
% Moisture	12.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216
Total Petroleum Hydrocarbons C6-C35 b	y EPA Method 801	5M						
C6-C12	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M
>C12-C28	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M
>C28-C35	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M
Surrogate: 1-Chlorooctane		112 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M
Surrogate: o-Terphenyl		124 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc

86.9 %

75-125

P8A3109

01/30/18

01/30/18

EPA 8021B

Permian Basin Environmental Lab, L.P.

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			5-11 1-2 )04-32 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, l	L <b>.P.</b>				
<b>General Chemistry Paramete</b>	ers by EPA / Standard Methods								
Chloride	1450	27.5	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

9.0

Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

With a function of the functio	11	ojeet mana	gen: eoty n	0011					
			8-11 2-3 004-33 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin F	Environme	ntal Lab,	L.P.				
General Chemistry Parameters by	EPA / Standard Methods								
Chloride	396	1.08	mg/kg dry	1	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Fax:

# SS-12 0-1

#### 8A29004-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin H	Environmer	ital Lab, 1	L.P.				
Organics by GC									
Benzene	ND	0.00110	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0110	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0220	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0110	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.2 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		131 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	S-GC
General Chemistry Parameters by EF	PA / Standard Method	ls							
Chloride	1920	27.5	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	015M							
C6-C12	ND	27.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	60.5	27.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	60.5	27.5	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

		~~~	5-12 1-2 )04-35 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, 1	L <b>.P.</b>				
<b>General Chemistry Paramete</b>	ers by EPA / Standard Methods								
Chloride	639	30.1	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

17.0

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			5-12 2-3 )04-36 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, l	L <b>.P.</b>				
<b>General Chemistry Paramet</b>	ters by EPA / Standard Methods								
Chloride	212	1.11	mg/kg dry	1	P8A3113	01/31/18	02/01/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

10.0

Fax:

# SS-13 0-1

### 8A29004-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin F	Environme	ntal Lab, I	L.P.				
Organics by GC									
Benzene	ND	0.00122	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0122	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00610	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0244	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0122	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.3 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		127 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	S-GC
General Chemistry Parameters by EPA	Standard Method	ls							
Chloride	4630	61.0	mg/kg dry	50	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	18.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 I	oy EPA Method 80	)15M							
C6-C12	ND	30.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	30.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	30.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		118 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.5	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			S-13 1-2	:1)					
		ðA29	004-38 (So	) )					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permiar	1 Basin E	nvironme	ntal Lab, I	L <b>.P.</b>				
<b>General Chemistry Parame</b>	ters by EPA / Standard Methods								
Chloride	669	29.8	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

16.0

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			8-13 2-3 )04-39 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
-	Permia	ın Basin E	nvironme	ntal Lab, I	L <b>.P.</b>	1			
General Chemistry Parame	eters by EPA / Standard Methods								
Chloride	280	1.18	mg/kg dry	1	P8A3113	01/31/18	02/01/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

15.0

Permian Basin Environmental Lab, L.P.

Fax:

# SS-14 0-1

## 8A29004-40 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin F	Environmei	ntal Lab, I	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00116	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0116	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00581	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0233	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0116	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		128 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		104 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
General Chemistry Parameters by EPA /	Standard Method	ls							
Chloride	1150	29.1	mg/kg dry	25	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	14.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 h	oy EPA Method 80	)15M							
C6-C12	ND	29.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

SS-14 1-2 8A29004-41 (Soil)												
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
	Perm	ian Basin E	nvironme	ntal Lab, I	L <b>.P.</b>							
<b>General Chemistry Paramet</b>	ters by EPA / Standard Methods											
Chloride	150	1.10	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0				

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

9.0

Permian Basin Environmental Lab, L.P.

# SS-14 2-3

## 8A29004-42 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironmeı	ntal Lab, I	<b>P</b> .				
General Chemistry Parameters by EPA / S	Standard Methods								
Chloride	141	1.09	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

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.

Fax:

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#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

# SS-15 0-1

#### 8A29004-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin F	Environmen	tal Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00115	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0115	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00575	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0230	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0115	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.2 %	75-1.	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		122 %	75-1.	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
Chloride	173	1.15	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	13.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	015M							
C6-C12	ND	28.7	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-1.	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-1.	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

Permian Basin Environmental Lab, L.P.

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			8-15 1-2 004-44 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, l	L <b>.P.</b>				
<b>General Chemistry Paramete</b>	ers by EPA / Standard Methods								
Chloride	79.9	5.95	mg/kg dry	5	P8B0106	02/01/18	02/03/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

16.0

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			5-15 2-3 )04-45 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, l	L <b>.P.</b>				
<b>General Chemistry Paramete</b>	ers by EPA / Standard Methods								
Chloride	96.3	5.68	mg/kg dry	5	P8B0106	02/01/18	02/03/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

12.0

Fax:

# SS-16 0-1

## 8A29004-46 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin H	Invironmer	ital Lab, I	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.3 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	ls							
Chloride	3480	27.8	mg/kg dry	25	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	15M							
C6-C12	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			5-16 1-2 )04-47 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, l	L <b>.P.</b>				
<b>General Chemistry Paramet</b>	ers by EPA / Standard Methods	5							
Chloride	366	1.09	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

8.0

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			5-16 2-3 )04-48 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, l	<b>P</b> .				
<b>General Chemistry Paramete</b>	ers by EPA / Standard Methods								
Chloride	392	1.18	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

15.0

Permian Basin Environmental Lab, L.P.

Fax:

# SS-17 0-1

## 8A29004-49 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin H	Environmer	ntal Lab, I	L.P.				
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.2 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-1	25	P8A3109	01/30/18	01/30/18	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
Chloride	981	28.4	mg/kg dry	25	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 I	oy EPA Method 80	015M							
C6-C12	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

# SS-17 1-2

## 8A29004-50 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	an Basin E	nvironmeı	ntal Lab, I	<b>P</b> .				
General Chemistry Parameters by EPA	A / Standard Methods								
Chloride	182	1.33	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	25.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

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.

Fax:

Fax:

## 8A29004-51 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironmei	ntal Lab, I	<b></b>				
General Chemistry Parameters by EPA / S	andard Methods								
Chloride	96.6	1.41	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	29.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Surrogate: o-Terphenyl

Total Petroleum Hydrocarbon C6-C35

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

#### SS-18 0-1 8A29004-52 (Soil) Reporting Analyte Result Limit Units Dilution Batch Prepared Analyzed Method Notes Permian Basin Environmental Lab, L.P. **Organics by GC** P8A3105 EPA 8021B Benzene ND 0.00120 mg/kg dry 1 01/30/18 01/30/18 P8A3105 EPA 8021B Toluene ND 0.0120 mg/kg dry 1 01/30/18 01/30/18 mg/kg dry P8A3105 EPA 8021B Ethylbenzene ND 0.00602 1 01/30/18 01/30/18 Xylene (p/m) ND 0.0241 mg/kg dry 1 P8A3105 01/30/18 01/30/18 EPA 8021B P8A3105 EPA 8021B ND mg/kg dry 1 Xylene (o) 0.0120 01/30/18 01/30/18 S-GC Surrogate: 4-Bromofluorobenzene 129 % 75-125 P8A3105 01/30/18 01/30/18 EPA 8021B Surrogate: 1,4-Difluorobenzene P8A3105 01/30/18 01/30/18 EPA 8021B 91.9% 75-125 **General Chemistry Parameters by EPA / Standard Methods** 25 P8B0106 Chloride mg/kg dry EPA 300.0 2090 30.1 02/01/18 02/03/18 % Moisture 17.0 0.1 % 1 P8B0101 02/01/18 02/01/18 ASTM D2216 Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M C6-C12 ND 30.1 mg/kg dry 1 P8A3104 01/30/18 01/30/18 TPH 8015M >C12-C28 ND P8A3104 TPH 8015M 30.1 mg/kg dry 1 01/30/18 01/30/18 P8A3104 TPH 8015M >C28-C35 ND 30.1 mg/kg dry 1 01/30/18 01/30/18 TPH 8015M Surrogate: 1-Chlorooctane 119 % P8A3104 01/30/18 01/30/18 70-130

130 %

30.1

ND

70-130

1

mg/kg dry

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.

01/30/18

01/30/18

P8A3104

[CALC]

01/30/18

01/30/18

TPH 8015M

calc

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			5-18 1-2 004-53 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, I	<b>P</b> .				
<b>General Chemistry Paramet</b>	ters by EPA / Standard Methods								
Chloride	2350	28.7	mg/kg dry	25	P8B0106	02/01/18	02/03/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

13.0

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			5-18 2-3 004-54 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	an Basin E	nvironme	ntal Lab, I	<b>P.</b>				
<b>General Chemistry Paramet</b>	ters by EPA / Standard Methods								
Chloride	479	1.39	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

28.0

Fax:

## SS-19 0-1

#### 8A29004-55 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin H	Environmer	ital Lab, 1	L. <b>P.</b>				
Organics by GC									
Benzene	ND	0.00147	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0147	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00735	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0294	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0147	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		83.6 %	75-1	25	P8A3105	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-1	25	P8A3105	01/30/18	01/30/18	EPA 8021B	
General Chemistry Parameters by EPA /	Standard Method	ls							
Chloride	76.8	1.47	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	32.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 h	oy EPA Method 80	)15M							
C6-C12	ND	36.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	36.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	36.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		130 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	36.8	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			5-19 1-2 )04-56 (Sa	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	n Basin E	nvironme	ntal Lab, I	<b>P</b> .				
<b>General Chemistry Paramete</b>	ers by EPA / Standard Methods								
Chloride	60.6	1.45	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

31.0

Permian Basin Environmental Lab, L.P.

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			8-19 2-3 004-57 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, 1	L <b>.P.</b>				
<b>General Chemistry Paramete</b>	ers by EPA / Standard Methods								
Chloride	307	1.22	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	

%

1

P8B0101

02/01/18

02/01/18

ASTM D2216

0.1

18.0

Total Petroleum Hydrocarbon C6-C35

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

	SP-1 8A29004-58 (Soil)										
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
	Per	mian Basin I	Environme	ntal Lab,	L.P.						
Organics by GC											
Benzene	ND	0.00109	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B			
Toluene	ND	0.0109	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B			
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B			
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B			
Xylene (o)	ND	0.0109	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B			
Surrogate: 1,4-Difluorobenzene		88.7 %	75-1	25	P8A3105	01/30/18	01/30/18	EPA 8021B			
Surrogate: 4-Bromofluorobenzene		114 %	75-1	25	P8A3105	01/30/18	01/30/18	EPA 8021B			
General Chemistry Parameters by EPA	/ Standard Metho	ds									
Chloride	16100	54.3	mg/kg dry	50	P8B0106	02/01/18	02/03/18	EPA 300.0			
% Moisture	8.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216			
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	015M									
C6-C12	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M			
>C12-C28	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M			
>C28-C35	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M			
Surrogate: 1-Chlorooctane		116 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M			
Surrogate: o-Terphenyl		129 %	70-1	30	P8A3104	01/30/18	01/30/18	TPH 8015M			

27.2 mg/kg dry

1

[CALC]

01/30/18

01/30/18

calc

ND

### **Organics by GC - Quality Control**

Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source	6 / <del>7</del> -	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P8A3105 - General Preparation	(GC)									
Blank (P8A3105-BLK1)				Prepared &	Analyzed:	01/30/18				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500								
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 1,4-Difluorobenzene	0.0462		"	0.0600		77.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.0607		"	0.0600		101	75-125			
LCS (P8A3105-BS1)				Prepared &	Analyzed:	01/30/18				
Benzene	0.111	0.00100	mg/kg wet	0.100		111	70-130			
Toluene	0.120	0.0100	"	0.100		120	70-130			
Ethylbenzene	0.117	0.00500		0.100		117	70-130			
Xylene (p/m)	0.219	0.0200					70-130			
Xylene (o)	0.118	0.0100					70-130			
Surrogate: 4-Bromofluorobenzene	0.0800		"	0.0600		133	75-125			S-G(
Surrogate: 1,4-Difluorobenzene	0.0645		"	0.0600		107	75-125			
LCS Dup (P8A3105-BSD1)				Prepared &	Analyzed:	01/30/18				
Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130	7.49	20	
Toluene	0.110	0.0100	"	0.100		110	70-130	8.65	20	
Ethylbenzene	0.113	0.00500		0.100		113	70-130	3.49	20	
Xylene (p/m)	0.217	0.0200	"				70-130		20	
Xylene (o)	0.116	0.0100	"				70-130		20	
Surrogate: 1,4-Difluorobenzene	0.0581		"	0.0600		96.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.0715		"	0.0600		119	75-125			
Matrix Spike (P8A3105-MS1)	Sou	rce: 8A29004	-58	Prepared: 0	01/30/18 A	nalyzed: 01	/31/18			
Benzene	0.0877	0.00109	mg/kg dry	0.109	ND	80.7	80-120			
Toluene	0.0911	0.0109	"	0.109	ND	83.8	80-120			
Ethylbenzene	0.0985	0.00543	"	0.109	ND	90.6	80-120			
Xylene (p/m)	0.211	0.0217	"		ND		80-120			
Xylene (o)	0.0913	0.0109	"		ND		80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.0652		170	75-125			S-G(
Surrogate: 1,4-Difluorobenzene	0.0658		"	0.0652		101	75-125			

#### **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 P8A3105 - General Preparation (GC)										
Matrix Spike Dup (P8A3105-MSD1)	Sou	rce: 8A29004	-58	Prepared: 0	01/30/18 A	nalyzed: 01	/31/18			
Benzene	0.0929	0.00109	mg/kg dry	0.109	ND	85.5	80-120	5.76	20	
Toluene	0.124	0.0109	"	0.109	ND	114	80-120	30.5	20	QM-0
Ethylbenzene	0.0893	0.00543	"	0.109	ND	82.2	80-120	9.76	20	
Xylene (p/m)	0.189	0.0217	"		ND		80-120		20	
Xylene (o)	0.0941	0.0109	"		ND		80-120		20	
Surrogate: 4-Bromofluorobenzene	0.0729		"	0.0652		112	75-125			
Surrogate: 1,4-Difluorobenzene	0.0685		"	0.0652		105	75-125			

#### **Batch P8A3109 - General Preparation (GC)**

Blank (P8A3109-BLK1)				Prepared & Anal	yzed: 01/30/18		
Benzene	ND	0.00100	mg/kg wet				
Toluene	ND	0.0100	"				
Ethylbenzene	ND	0.00500	"				
Xylene (p/m)	ND	0.0200	"				
Xylene (o)	ND	0.0100	"				
Surrogate: 4-Bromofluorobenzene	0.0591		"	0.0600	98.6	75-125	
Surrogate: 1,4-Difluorobenzene	0.0517		"	0.0600	86.2	75-125	
LCS (P8A3109-BS1)				Prepared & Anal	yzed: 01/30/18		

LCS (1 0A5109-DS1)				i iepaieu & Ai	liaryzeu. 01/30/18	
Benzene	0.108	0.00100	mg/kg wet	0.100	108	70-130
Toluene	0.116	0.0100	"	0.100	116	70-130
Ethylbenzene	0.110	0.00500	"	0.100	110	70-130
Xylene (p/m)	0.218	0.0200	"			70-130
Xylene (o)	0.119	0.0100	"			70-130
Surrogate: 4-Bromofluorobenzene	0.0672		"	0.0600	112	75-125
Surrogate: 1,4-Difluorobenzene	0.0630		"	0.0600	105	75-125

#### **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 P8A3109 - General Preparation (GC)										
LCS Dup (P8A3109-BSD1)				Prepared &	Analyzed:	01/30/18				
Benzene	0.106	0.00100	mg/kg wet	0.100		106	70-130	1.82	20	
Toluene	0.115	0.0100	"	0.100		115	70-130	1.24	20	
Ethylbenzene	0.115	0.00500	"	0.100		115	70-130	4.44	20	
Xylene (p/m)	0.208	0.0200	"				70-130		20	
Xylene (o)	0.119	0.0100	"				70-130		20	
Surrogate: 4-Bromofluorobenzene	0.0684		"	0.0600		114	75-125			
Surrogate: 1,4-Difluorobenzene	0.0586		"	0.0600		97.7	75-125			
Matrix Spike (P8A3109-MS1)	Sou	irce: 8A29004	1-49	Prepared &	Analyzed:	01/30/18				
Benzene	0.101	0.00114	mg/kg dry	0.114	ND	88.9	80-120			
Toluene	0.109	0.0114	"	0.114	ND	95.9	80-120			
Ethylbenzene	0.136	0.00568	"	0.114	ND	120	80-120			
Xylene (p/m)	0.238	0.0227	"		ND		80-120			
Xylene (o)	0.118	0.0114	"		ND		80-120			
Surrogate: 1,4-Difluorobenzene	0.0786		"	0.0682		115	75-125			
Surrogate: 4-Bromofluorobenzene	0.0974		"	0.0682		143	75-125			S-G
Matrix Spike Dup (P8A3109-MSD1)	Sou	irce: 8A29004	1-49	Prepared &	Analyzed:	01/30/18				
Benzene	0.0809	0.00114	mg/kg dry	0.114	ND	71.2	80-120	22.2	20	
Toluene	0.0909	0.0114	"	0.114	ND	80.0	80-120	18.1	20	
Ethylbenzene	0.101	0.00568	"	0.114	ND	88.6	80-120	29.7	20	
Xylene (p/m)	0.187	0.0227	"		ND		80-120		20	
Xylene (o)	0.0922	0.0114	"		ND		80-120		20	
Surrogate: 1,4-Difluorobenzene	0.0740		"	0.0682		108	75-125			
Surrogate: 4-Bromofluorobenzene	0.0773		"	0.0682		113	75-125			

Permian Basin Environmental Lab, L.P.

#### 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
Апагус	Result	Limit	Uilits	Level	Result	/0KEC	LIIIIIIS	κrD	Liinit	inotes
Batch P8A3006 - *** DEFAULT PREP ***										
Blank (P8A3006-BLK1)				Prepared &	Analyzed:	01/30/18				
Chloride	ND	1.00	mg/kg wet							
LCS (P8A3006-BS1)				Prepared &	Analyzed:	01/30/18				
Chloride	428	1.00	mg/kg wet	400		107	80-120			
LCS Dup (P8A3006-BSD1)				Prepared &	Analyzed:	01/30/18				
Chloride	425	1.00	mg/kg wet	400		106	80-120	0.693	20	
Duplicate (P8A3006-DUP1)	Sou	rce: 8A29004	-01	Prepared &	Analyzed:	01/30/18				
Chloride	21300	55.6	mg/kg dry		21400			0.257	20	
Duplicate (P8A3006-DUP2)	Sou	rce: 8A29004	-10	Prepared: (	01/30/18 Ai	nalyzed: 01	/31/18			
Chloride	1520	10.9	mg/kg dry		1510			0.518	20	
Matrix Spike (P8A3006-MS1)	Sou	rce: 8A29004	-01	Prepared &	Analyzed:	01/30/18				
Chloride	27300	55.6	mg/kg dry	5560	21400	107	80-120			
Batch P8A3113 - *** DEFAULT PREP ***										
Blank (P8A3113-BLK1)				Prepared: (	)1/31/18 Ai	nalyzed: 02	/01/18			
Chloride	ND	1.00	mg/kg wet	*		,				
LCS (P8A3113-BS1)				Prepared: (	)1/31/18 Aı	nalyzed: 02	/01/18			
Chloride	421	1.00	mg/kg wet	400		105	80-120			
LCS Dup (P8A3113-BSD1)				Prepared: (	)1/31/18 Ai	nalyzed: 02	/01/18			
Chloride	415	1.00	mg/kg wet	400		104	80-120	1.44	20	

#### 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 P8A3113 - *** DEFAULT PREP ***										
Duplicate (P8A3113-DUP1)	Sour	ce: 8A29004	-20	Prepared: (	01/31/18 A	nalyzed: 02	/01/18			
Chloride	11500	54.3	mg/kg dry		11500			0.114	20	
Duplicate (P8A3113-DUP2)	Sour	ce: 8A29004	-30	Prepared: (	01/31/18 A	nalyzed: 02	/01/18			
Chloride	6600	28.7	mg/kg dry		6400			3.10	20	
Matrix Spike (P8A3113-MS1)	Sour	rce: 8A29004	-20	Prepared: (	01/31/18 A	nalyzed: 02	/01/18			
Chloride	18200	54.3	mg/kg dry	5430	11500	124	80-120			
Batch P8B0101 - *** DEFAULT PREP ***										
Blank (P8B0101-BLK1)				Prepared &	k Analyzed:	02/01/18				
% Moisture	ND	0.1	%							
Duplicate (P8B0101-DUP1)	Sour		-22	Prepared &	k Analyzed:	02/01/18				
% Moisture	9.0	0.1	%		8.0			11.8	20	
Duplicate (P8B0101-DUP2)	Sour	rce: 8A29004	-49	Prepared &	د Analyzed:	02/01/18				
% Moisture	13.0	0.1	%		12.0			8.00	20	
Duplicate (P8B0101-DUP3)	Sour	rce: 8A30001	-07	Prepared &	د Analyzed:	02/01/18				
% Moisture	ND	0.1	%		ND				20	
Duplicate (P8B0101-DUP4)	Sour	ce: 8A31001	-08	Prepared &	د Analyzed:	02/01/18				
% Moisture	5.0	0.1	%		4.0			22.2	20	
Batch P8B0106 - *** DEFAULT PREP ***										
Blank (P8B0106-BLK1)				Prepared: (	02/01/18 A	nalyzed: 02	/03/18			
Chloride	ND	1.00	mg/kg wet	*						

#### 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 P8B0106 - *** DEFAULT PREP ***										
LCS (P8B0106-BS1)				Prepared: (	02/01/18 A	Analyzed: 02	/03/18			
Chloride	422	1.00	mg/kg wet	400		106	80-120			
LCS Dup (P8B0106-BSD1)				Prepared: (	)2/01/18 A	Analyzed: 02	/03/18			
Chloride	424	1.00	mg/kg wet	400		106	80-120	0.555	20	
Duplicate (P8B0106-DUP1)	Sour	ce: 8A29004	-40	Prepared: (	02/01/18 A	Analyzed: 02	/03/18			
Chloride	1170	29.1	mg/kg dry		1150			2.25	20	
Duplicate (P8B0106-DUP2)	Sour	ce: 8A29004	-50	Prepared: (	)2/01/18 A	Analyzed: 02	/03/18			
Chloride	184	1.33	mg/kg dry		182			1.17	20	
Matrix Spike (P8B0106-MS1)	Sour	ce: 8A29004	-40	Prepared: (	02/01/18 A	Analyzed: 02	/03/18			
Chloride	3600	29.1	mg/kg dry	2330	1150	106	80-120			

#### 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 P8A3104 - General Preparation (GC)										
Blank (P8A3104-BLK1)				Prepared &	Analyzed:	01/30/18				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0								
>C28-C35	ND	25.0								
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	59.1		"	50.0		118	70-130			
LCS (P8A3104-BS1)				Prepared &	Analyzed:	01/30/18				
C6-C12	989	25.0	mg/kg wet	1000		98.9	75-125			
>C12-C28	1070	25.0		1000		107	75-125			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	55.9		"	50.0		112	70-130			
LCS Dup (P8A3104-BSD1)				Prepared &	Analyzed:	01/30/18				
C6-C12	987	25.0	mg/kg wet	1000		98.7	75-125	0.263	20	
>C12-C28	1060	25.0		1000		106	75-125	1.13	20	
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	59.6		"	50.0		119	70-130			
Duplicate (P8A3104-DUP1)	Sou	rce: 8A29004	-58	Prepared &	Analyzed:	01/30/18				
C6-C12	22.7	27.2	mg/kg dry		23.1			1.85	20	
>C12-C28	19.6	27.2	"		17.6			11.2	20	
Surrogate: 1-Chlorooctane	127		"	109		117	70-130			
Surrogate: o-Terphenyl	70.4		"	54.3		130	70-130			

#### **Notes and Definitions**

S-GC	Surrogate recovery outside of	control limits. The data wa	s accepted based on valid reco	very of the remaining surrogate.

- 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.
- 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

2/5/2018

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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Age 73

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



# Analytical Report

## **Prepared for:**

Coty Woolf North Jetty Environmental Services 5004 Whitman Drive Midland, TEXAS 79705

Project: Caza Forehand 27 State #4 Project Number: 18-0126 Location: NM

Lab Order Number: 8E24001



NELAP/TCEQ # T104704516-17-8

Report Date: 05/29/18

#### ANALYTICAL REPORT FOR SAMPLES

88-10-1     82001-0     Seil     0521/817.05     052301817.00       8511-2     822401-02     Seil     0521/1817.08     0523201817.00       852-12     8224001-40     Seil     0521/1817.11     0523201817.00       853-14     8724001-45     Seil     0521/1817.11     0523201817.00       853-12     822401-45     Seil     0521/1817.12     0523201817.00       854-14     8224001-40     Seil     0521/1817.23     0523201817.00       854-14     8224001-40     Seil     0521/1817.23     0523201817.00       854-13     8224001-40     Seil     0521/1817.23     0523201817.00       854-14     8224001-40     Seil     0521/1817.23     0523201817.00       854-13     8224001-40     Seil     0521/1817.33     0523201817.00       854-14     8224001-41     Seil     0521/1817.33     0523201817.00       854-12     824001-41     Seil     0521/1817.33     0523201817.00       854-12     824001-14     Seil     0521/1817.34     0523201817.00       854-12     824001-14     Seil     0521/1817.35     0523201817.00       854-12     824001-14     Seil     0521/1817.34     0523201817.00       854-12     824001-14     Seil     0521/1817.35     05	Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-2-0-1     SE-2401-04     Soil     0521/1817:11     0523-201817:00       SS-3-1-1     SE-24001-04     Soil     0521/1817:12     0523-201817:00       SS-3-1-1     SE-24001-05     Soil     0521/1817:12     0523-201817:00       SS-3-1-2     SE-24001-06     Soil     0521/1817:20     0523-201817:00       SS-4-1-2     SE-24001-07     Soil     0521/1817:20     0523-201817:00       SS-5-1-1     SE-24001-09     Soil     0521/1817:27     0523-201817:00       SS-5-0-1     SE-24001-10     Soil     0521/1817:27     0523-201817:00       SS-6-1     SE-24001-10     Soil     0521/1817:32     0523-201817:00       SS-6-1     SE-24001-10     Soil     0521/1817:32     0523-201817:00       SS-6-1     SE-24001-12     Soil     0521/1817:32     0523-201817:00       SS-71-2     SE-24001-12     Soil     0521/1817:34     0523-201817:00       SS-71-2     SE-24001-13     Soil     0521/1817:44     0523-201817:00       SS-71-2     SE-24001-16     Soil     0521/1817:41     0523-201817:00       SS-71-2     SE-24001-17     Soil     0521/1817:41     0523-201817:00       SS-71-2     SE-24001-17     Soil     0521/1817:41     0523-201817:00       SS-10-1     SE-24001-2	SS-1 0-1	8E24001-01	Soil	05/21/18 17:05	05-23-2018 17:00
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S41-2       SE24001-08       Soil       05/21/18 17.27       05/23-2018 17.00         S55-0-1       SE24001-09       Soil       05/21/18 17.27       05/23-2018 17.00         S55-1-2       SE24001-10       Soil       05/21/18 17.27       05/23-2018 17.00         S56-1-2       SE24001-11       Soil       05/21/18 17.32       05/23-2018 17.00         S57-1-2       SE24001-12       Soil       05/21/18 17.35       05/23-2018 17.00         S57-1-2       SE24001-14       Soil       05/21/18 17.31       05/23-2018 17.00         S57-1-2       SE24001-14       Soil       05/21/18 17.41       05/23-2018 17.00         S57-1-2       SE24001-16       Soil       05/21/18 17.41       05/23-2018 17.00         S58-0-1       SE24001-16       Soil       05/21/18 17.41       05/23-2018 17.00         S58-0-1       SE24001-16       Soil       05/21/18 17.41       05/23-2018 17.00         S58-0-1       SE24001-17       Soil       05/21/18 17.41       05/23-2018 17.00         S59-0-1       SE24001-17       Soil       05/21/18 17.41       05/23-2018 17.00         S51-0-1       SE24001-20       Soil       05/21/18 17.55       05/23-2018 17.00         S51-10       SE24001-21       Soil <td< td=""><td>SS-3 1-2</td><td>8E24001-06</td><td>Soil</td><td>05/21/18 17:20</td><td>05-23-2018 17:00</td></td<>	SS-3 1-2	8E24001-06	Soil	05/21/18 17:20	05-23-2018 17:00
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SS-51-2SE24001-10Soil0521/1817.2905-23-201817.00SS-6 0-18E24001-11Soil0521/1817.3205-23-201817.00SS-6 1-28E24001-12Soil0521/1817.3505-23-201817.00SS-7 0-18E24001-13Soil0521/1817.3805-23-201817.00SS-7 1-28E24001-14Soil0521/1817.4105-23-201817.00SS-8 0-18E24001-15Soil0521/1817.4405-23-201817.00SS-8 1-28E24001-16Soil0521/1817.4405-23-201817.00SS-9 1-28E24001-17Soil0521/1817.5005-23-201817.00SS-9 1-28E24001-19Soil0521/1817.5005-23-201817.00SS-10 1-28E24001-20Soil0521/1817.5305-23-201817.00SS-11 0-18E24001-21Soil0521/1817.5405-23-201817.00SS-12 0-18E24001-22Soil0521/1817.5605-23-201817.00SS-13 0-18E24001-23Soil0521/1818.0505-23-201817.00SS-14 0-18E24001-24Soil0521/1818.0505-23-201817.00SS-13 0-18E24001-25Soil0521/1818.0505-23-201817.00SS-14 0-18E24001-26Soil0521/1818.0505-23-201817.00SS-13 0-18E24001-27Soil0521/1818.0505-23-201817.00SS-14 0-18E24001-27Soil0521/1818.1105-23-201817.00SS-14 0-18E24001-27Soil0521/1818.1005-23-201817.00SS-14 0-18E24001-28Soil0521/1818.10 </td <td>SS-4 1-2</td> <td>8E24001-08</td> <td>Soil</td> <td>05/21/18 17:26</td> <td>05-23-2018 17:00</td>	SS-4 1-2	8E24001-08	Soil	05/21/18 17:26	05-23-2018 17:00
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S8-8 0-1SE24001-15SoilO5/21/18 17.43O5-23-2018 17.00S8-8 1-2BE24001-16SoilO5/21/18 17.44O5-23-2018 17.00S8-9 0-1BE24001-17SoilO5/21/18 17.47O5-23-2018 17.00S8-9 0-1BE24001-18SoilO5/21/18 17.53O5-23-2018 17.00S8-9 0-1BE24001-19SoilO5/21/18 17.53O5-23-2018 17.00S8-10 0-1BE24001-20SoilO5/21/18 17.53O5-23-2018 17.00S8-10 1-2BE24001-20SoilO5/21/18 17.54O5-23-2018 17.00S8-11 0-1BE24001-21SoilO5/21/18 17.54O5-23-2018 17.00S8-12 0-1BE24001-22SoilO5/21/18 17.56O5-23-2018 17.00S8-12 0-1BE24001-23SoilO5/21/18 17.56O5-23-2018 17.00S8-12 0-1BE24001-23SoilO5/21/18 18.05O5-23-2018 17.00S8-12 0-1BE24001-24SoilO5/21/18 18.05O5-23-2018 17.00S8-13 0-1BE24001-25SoilO5/21/18 18.05O5-23-2018 17.00S8-13 0-1BE24001-26SoilO5/21/18 18.11O5-23-2018 17.00S8-14 0-1BE24001-27SoilO5/21/18 18.11O5-23-2018 17.00S8-15 0-1BE24001-28SoilO5/21/18 18.20O5-23-2018 17.00S8-15 0-1BE24001-29SoilO5/21/18 18.20O5-23-2018 17.00S8-16 0-1BE24001-30SoilO5/21/18 18.20O5-23-2018 17.00S8-16 0-1BE24001-31SoilO5/21/18 18.20O5-23-2018 17.00S8	SS-7 0-1	8E24001-13	Soil	05/21/18 17:38	05-23-2018 17:00
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SS-10 0-1Soil05/21/18 17:5305-23-2018 17:00SS-10 1-2Soil05/21/18 18:0205-23-2018 17:00SS-11 0-18E24001-20Soil05/21/18 18:0205-23-2018 17:00SS-11 1-2Soil05/21/18 17:5605-23-2018 17:00SS-12 0-18E24001-22Soil05/21/18 17:5605-23-2018 17:00SS-12 0-18E24001-23Soil05/21/18 18:0505-23-2018 17:00SS-12 0-18E24001-24Soil05/21/18 18:0505-23-2018 17:00SS-12 1-28E24001-25Soil05/21/18 18:0805-23-2018 17:00SS-13 1-28E24001-26Soil05/21/18 18:1105-23-2018 17:00SS-14 0-18E24001-27Soil05/21/18 18:1405-23-2018 17:00SS-14 0-18E24001-28Soil05/21/18 18:1405-23-2018 17:00SS-15 0-18E24001-29Soil05/21/18 18:1705-23-2018 17:00SS-15 0-18E24001-29Soil05/21/18 18:1705-23-2018 17:00SS-15 0-18E24001-29Soil05/21/18 18:2005-23-2018 17:00SS-15 0-18E24001-30Soil05/21/18 18:2005-23-2018 17:00SS-15 0-18E24001-30Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-31Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-32Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-32Soil05/21/18 18:2605-23-2018 17:00SS-16 0-18E24001-32Soil05/2	SS-9 0-1	8E24001-17	Soil	05/21/18 17:47	05-23-2018 17:00
SS-10 1-2SE24001-20Soil05/21/18 18:0205-23-2018 17:00SS-11 0-18E24001-21Soil05/21/18 17:5405-23-2018 17:00SS-11 1-28E24001-22Soil05/21/18 17:5605-23-2018 17:00SS-12 0-18E24001-23Soil05/21/18 18:0505-23-2018 17:00SS-12 1-28E24001-24Soil05/21/18 18:0805-23-2018 17:00SS-13 0-18E24001-24Soil05/21/18 18:0805-23-2018 17:00SS-13 1-28E24001-26Soil05/21/18 18:1105-23-2018 17:00SS-14 0-18E24001-26Soil05/21/18 18:1405-23-2018 17:00SS-14 1-28E24001-28Soil05/21/18 18:1705-23-2018 17:00SS-15 0-18E24001-28Soil05/21/18 18:2005-23-2018 17:00SS-15 0-18E24001-30Soil05/21/18 18:2005-23-2018 17:00SS-15 0-18E24001-31Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-32Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-31Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-31Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-32Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-32Soil05/21/18 18:2905-23-2018 17:00SS-16 0-28E24001-32Soil05/21/18 18:2905-23-2018 17:00SS-16 1-28E24001-32Soil05/21/18 18:2905-23-2018 17:00<	SS-9 1-2	8E24001-18	Soil	05/21/18 17:50	05-23-2018 17:00
SS-11 0-1Soil05/21/18 17:5405-23-2018 17:00SS-11 1-28E24001-22Soil05/21/18 17:5605-23-2018 17:00SS-12 0-18E24001-23Soil05/21/18 18:0505-23-2018 17:00SS-12 1-28E24001-24Soil05/21/18 18:0805-23-2018 17:00SS-13 0-18E24001-25Soil05/21/18 18:1105-23-2018 17:00SS-13 1-28E24001-26Soil05/21/18 18:1105-23-2018 17:00SS-14 0-18E24001-27Soil05/21/18 18:1705-23-2018 17:00SS-14 1-28E24001-28Soil05/21/18 18:1705-23-2018 17:00SS-15 0-18E24001-29Soil05/21/18 18:2005-23-2018 17:00SS-15 1-28E24001-29Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-30Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-31Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-32Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-31Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-32Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-32Soil05/21/18 18:2905-23-2018 17:00SS-16 0-18E24001-32Soil05/21/18 18:2905-23-2018 17:00SS-16 1-28E24001-33Soil05/21/18 18:2905-23-2018 17:00SS-17 0-18E24001-33Soil05/21/18 18:3105-23-2018 17:00	SS-10 0-1	8E24001-19	Soil	05/21/18 17:53	05-23-2018 17:00
SS-11 1-28E24001-22Soil05/21/18 17:5605-23-2018 17:00SS-12 0-18E24001-23Soil05/21/18 18:0505-23-2018 17:00SS-12 1-28E24001-24Soil05/21/18 18:0805-23-2018 17:00SS-13 0-18E24001-25Soil05/21/18 18:1105-23-2018 17:00SS-13 1-28E24001-26Soil05/21/18 18:1405-23-2018 17:00SS-14 0-18E24001-27Soil05/21/18 18:1705-23-2018 17:00SS-14 0-18E24001-27Soil05/21/18 18:1705-23-2018 17:00SS-15 0-18E24001-28Soil05/21/18 18:2005-23-2018 17:00SS-15 1-28E24001-29Soil05/21/18 18:2005-23-2018 17:00SS-15 0-18E24001-30Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-31Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-32Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-31Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-32Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-32Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-32Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-32Soil05/21/18 18:2005-23-2018 17:00SS-17 0-18E24001-33Soil05/21/18 18:3105-23-2018 17:00	SS-10 1-2	8E24001-20	Soil	05/21/18 18:02	05-23-2018 17:00
SS-12 0-18E24001-23Soil05/21/18 18:0505-23-2018 17:00SS-12 1-28E24001-24Soil05/21/18 18:0805-23-2018 17:00SS-13 0-18E24001-25Soil05/21/18 18:1105-23-2018 17:00SS-13 1-28E24001-26Soil05/21/18 18:1405-23-2018 17:00SS-14 0-18E24001-27Soil05/21/18 18:1705-23-2018 17:00SS-14 1-28E24001-27Soil05/21/18 18:1705-23-2018 17:00SS-15 0-18E24001-28Soil05/21/18 18:2005-23-2018 17:00SS-15 1-28E24001-30Soil05/21/18 18:2005-23-2018 17:00SS-16 0-18E24001-30Soil05/21/18 18:2305-23-2018 17:00SS-16 1-28E24001-30Soil05/21/18 18:2305-23-2018 17:00SS-16 1-28E24001-31Soil05/21/18 18:2605-23-2018 17:00SS-17 0-18E24001-32Soil05/21/18 18:2905-23-2018 17:00	SS-11 0-1	8E24001-21	Soil	05/21/18 17:54	05-23-2018 17:00
SS-12 1-28E24001-24Soil05/21/18 18:0805-23-2018 17:00SS-13 0-18E24001-25Soil05/21/18 18:1105-23-2018 17:00SS-13 1-28E24001-26Soil05/21/18 18:1405-23-2018 17:00SS-14 0-18E24001-27Soil05/21/18 18:1705-23-2018 17:00SS-14 1-28E24001-28Soil05/21/18 18:2005-23-2018 17:00SS-15 0-18E24001-29Soil05/21/18 18:2005-23-2018 17:00SS-15 1-28E24001-30Soil05/21/18 18:2305-23-2018 17:00SS-16 0-18E24001-31Soil05/21/18 18:2305-23-2018 17:00SS-16 1-28E24001-32Soil05/21/18 18:2305-23-2018 17:00SS-17 0-18E24001-32Soil05/21/18 18:2305-23-2018 17:00	SS-11 1-2	8E24001-22	Soil	05/21/18 17:56	05-23-2018 17:00
SS-13 0-18E24001-25Soil05/21/18 18:1105-23-2018 17:00SS-13 1-28E24001-26Soil05/21/18 18:1405-23-2018 17:00SS-14 0-18E24001-27Soil05/21/18 18:1705-23-2018 17:00SS-14 1-28E24001-28Soil05/21/18 18:2005-23-2018 17:00SS-15 0-18E24001-29Soil05/21/18 18:2005-23-2018 17:00SS-15 1-28E24001-30Soil05/21/18 18:2305-23-2018 17:00SS-16 0-18E24001-31Soil05/21/18 18:2605-23-2018 17:00SS-16 1-28E24001-32Soil05/21/18 18:2905-23-2018 17:00SS-17 0-18E24001-33Soil05/21/18 18:2905-23-2018 17:00	SS-12 0-1	8E24001-23	Soil	05/21/18 18:05	05-23-2018 17:00
SS-13 1-2SE24001-26Soil05/21/18 18:1405-23-2018 17:00SS-14 0-1SE24001-27Soil05/21/18 18:1705-23-2018 17:00SS-14 1-2Se24001-28Soil05/21/18 18:2005-23-2018 17:00SS-15 0-1SE24001-29Soil05/21/18 18:2005-23-2018 17:00SS-15 1-2Se24001-30Soil05/21/18 18:2305-23-2018 17:00SS-16 0-1SE24001-31Soil05/21/18 18:2605-23-2018 17:00SS-16 1-2Se24001-31Soil05/21/18 18:2905-23-2018 17:00SS-17 0-1Se24001-33Soil05/21/18 18:2905-23-2018 17:00	SS-12 1-2	8E24001-24	Soil	05/21/18 18:08	05-23-2018 17:00
SS-14 0-18E24001-27Soil05/21/18 18:1705-23-2018 17:00SS-14 1-28E24001-28Soil05/21/18 18:2005-23-2018 17:00SS-15 0-18E24001-29Soil05/21/18 18:2005-23-2018 17:00SS-15 1-28E24001-30Soil05/21/18 18:2305-23-2018 17:00SS-16 0-18E24001-31Soil05/21/18 18:2605-23-2018 17:00SS-16 1-28E24001-32Soil05/21/18 18:2905-23-2018 17:00SS-17 0-18E24001-33Soil05/21/18 18:2905-23-2018 17:00	SS-13 0-1	8E24001-25	Soil	05/21/18 18:11	05-23-2018 17:00
SS-14 1-2Se24001-28Soil05/21/18 18:2005-23-2018 17:00SS-15 0-18E24001-29Soil05/21/18 18:2005-23-2018 17:00SS-15 1-28E24001-30Soil05/21/18 18:2305-23-2018 17:00SS-16 0-18E24001-31Soil05/21/18 18:2605-23-2018 17:00SS-16 1-28E24001-32Soil05/21/18 18:2905-23-2018 17:00SS-17 0-18E24001-33Soil05/21/18 18:3105-23-2018 17:00	SS-13 1-2	8E24001-26	Soil	05/21/18 18:14	05-23-2018 17:00
SS-15 0-1SE24001-29Soil05/21/18 18:2005-23-2018 17:00SS-15 1-2SE24001-30Soil05/21/18 18:2305-23-2018 17:00SS-16 0-1SE24001-31Soil05/21/18 18:2605-23-2018 17:00SS-16 1-2Seil05/21/18 18:2905-23-2018 17:00SS-17 0-1Seil05/21/18 18:3105-23-2018 17:00	SS-14 0-1	8E24001-27	Soil	05/21/18 18:17	05-23-2018 17:00
SS-15 1-2SE24001-30Soil05/21/18 18:2305-23-2018 17:00SS-16 0-18E24001-31Soil05/21/18 18:2605-23-2018 17:00SS-16 1-28E24001-32Soil05/21/18 18:2905-23-2018 17:00SS-17 0-18E24001-33Soil05/21/18 18:3105-23-2018 17:00	SS-14 1-2	8E24001-28	Soil	05/21/18 18:20	05-23-2018 17:00
SS-16 0-1Soil05/21/18 18:2605-23-2018 17:00SS-16 1-28E24001-32Soil05/21/18 18:2905-23-2018 17:00SS-17 0-18E24001-33Soil05/21/18 18:3105-23-2018 17:00	SS-15 0-1	8E24001-29	Soil	05/21/18 18:20	05-23-2018 17:00
SS-16 1-2Soil05/21/18 18:2905-23-2018 17:00SS-17 0-18E24001-33Soil05/21/18 18:3105-23-2018 17:00	SS-15 1-2	8E24001-30	Soil	05/21/18 18:23	05-23-2018 17:00
SS-17 0-1 Soil 05/21/18 18:31 05-23-2018 17:00	SS-16 0-1	8E24001-31	Soil	05/21/18 18:26	05-23-2018 17:00
	SS-16 1-2	8E24001-32	Soil	05/21/18 18:29	05-23-2018 17:00
SS-17 1-2 8E24001-34 Soil 05/21/18 18:34 05-23-2018 17:00	SS-17 0-1	8E24001-33	Soil	05/21/18 18:31	05-23-2018 17:00
	SS-17 1-2	8E24001-34	Soil	05/21/18 18:34	05-23-2018 17:00

Fax:

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-18 0-1	8E24001-35	Soil	05/21/18 18:37	05-23-2018 17:00
SS-18 1-2	8E24001-36	Soil	05/21/18 18:43	05-23-2018 17:00

#### SS-1 0-1 8E24001-01 (Soil)

		0E24	001-01 (30	11)						
Analyte	Result Permi	Reporting Limit an Basin E	Units	Dilution ntal Lab, I	Batch	Prepared	Analyzed	Method	Notes	
General Chemistry Parameters by EPA / Standard Methods         Chloride       117       1.09 mg/kg dry       1       P8E2408       05/28/18       EPA 300.0										
% Moisture	8.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216		

Permian Basin Environmental Lab, L.P.

North Jetty Environmental Services 5004 Whitman Drive	Project: Caza Forehand 27 State #4 Fa Project Number: 18-0126								
Midland TEXAS, 79705		Project Manag							
		S	S-1 1-2						
		8E240	01-02 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, l	L <b>.P.</b>				
General Chemistry Parameters by EPA	Standard Methods	5							
Chloride	36.0	1.08	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

7.0

% Moisture

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

SS-2 0-1 8E24001-03 (Soil)											
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
	Permian Basin Environmental Lab, L.P.										
General Chemistry Parameters by EPA / Standard Methods											
Chloride	103	1.08	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0			

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

7.0

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

SS-2 1-2 8E24001-04 (Soil)											
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
	Permi	an Basin E	nvironme	ntal Lab, l	L <b>.P.</b>						
<b>General Chemistry Paramet</b>	ers by EPA / Standard Methods										
Chloride	44.9	1.06	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0			

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

6.0

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

SS-3 0-1 8E24001-05 (Soil)											
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
	Permian Basin Environmental Lab, L.P.										
<b>General Chemistry Parameter</b>	ers by EPA / Standard Methods										
Chloride	101	1.08	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0			

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

7.0

# SS-3 1-2

## 8E24001-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Permian Basin Environmental Lab, L.P.										
General Chemistry Parameters by EPA	General Chemistry Parameters by EPA / Standard Methods									
Chloride	37.5	1.09	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0		
% Moisture	8.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216		

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.

Fax:

Fax:

# SS-4 0-1

## 8E24001-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Permian Basin Environmental Lab, L.P.										
General Chemistry Parameters by EPA	General Chemistry Parameters by EPA / Standard Methods									
Chloride	83.8	1.11	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0		
% Moisture	10.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216		

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

SS-4 1-2 8E24001-08 (Soil)											
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
	Permian Basin Environmental Lab, L.P.										
General Chemistry Parameters by EPA / Standard Methods											
Chloride	36.6	1.08	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0			

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

7.0

Permian Basin Environmental Lab, L.P.

Fax:

SS-5	0-1

#### 8E24001-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Permian Basin Environmental Lab, L.P.										
General Chemistry Parameters by EPA /	Standard Methods									
Chloride	87.0	1.11	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0		
% Moisture	10.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216		

Fax:

SS-	-5	1.	-2

#### 8E24001-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	n Basin E	nvironmer	ntal Lab, I	<b>P.</b>				
<b>General Chemistry Parameters</b>	by EPA / Standard Methods								
Chloride	80.6	1.10	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

#### Fax:

			S-6 0-1 001-11 (Sa	oil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permiar	n Basin E	nvironme	ntal Lab, I	<b>P</b> .				
<b>General Chemistry Parame</b>	ters by EPA / Standard Methods								
Chloride	75.1	1.11	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

10.0

Permian Basin Environmental Lab, L.P.

North Jetty Environmental Services 5004 Whitman Drive		Project: Caza Forehand 27 State #4 Fax: Project Number: 18-0126								
Midland TEXAS, 79705	I	Project Mana	ger: Coty V	Voolf						
		S	SS-6 1-2							
		8E24	001-12 (So	il)						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Thingto	resur	Linit	Olito	Dilation	Duten	Tiepureu	Thialyzed	method	10005	
	Perm	ian Basin F	Invironme	ntal Lab, 1	L.P.					
General Chemistry Parameters by EPA /	Standard Methods	5								
Chloride	17.9	1.08	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0		
% Moisture	7.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216		

North Jetty Environmental ServicesProject:Caza Forehand 27 State #45004 Whitman DriveProject Number:18-0126								Fax:	
Midland TEXAS, 79705		Project Manag							
		S	S-7 0-1						
		8E240	001-13 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, I	<b>P</b> .				
General Chemistry Parameters by EPA	Standard Method	5							
Chloride	76.5	1.15	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

13.0

Permian Basin Environmental Lab, L.P.

% Moisture

	Pern	nian Basin Ei	ivironme	ental Lab, I	<b>P.</b>						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
				oil)							
Midland TEXAS, 79705	Project Manager: Coty Woolf SS-7 1-2 8E24001-14 (Soil)										
5004 Whitman Drive		Project Numb	er: 18-012	26							
North Jetty Environmental Services		Proje	ct: Caza I	Forehand 27 S	State #4			Fax:			

Chloride	64.7	1.14 mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0
% Moisture	12.0	0.1 %	1	P8E2503	05/25/18	05/25/18	ASTM D2216

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			S-8 0-1 001-15 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, I	L <b>.P.</b>				
<b>General Chemistry Paramet</b>	ters by EPA / Standard Methods								
Chloride	78.6	1.06	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

6.0

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			S-8 1-2 )01-16 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	n Basin E	nvironme	ntal Lab, l	L. <b>P.</b>				
<b>General Chemistry Parame</b>	eters by EPA / Standard Methods								
Chloride	55.4	1.12	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

11.0

North Jetty Environmental Services		Project: Caza Forehand 27 State #4							
5004 Whitman Drive	F	roject Numl	ber: 18-012	6					
Midland TEXAS, 79705	P	roject Manaş	ger: Coty W	Voolf					
		S	S-9 0-1						
		8E24	001-17 (So	il)					
	D. It	Reporting	<b>T</b> T <b>1</b> .	D'1 -		<b>D</b>			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab,	L.P.				
General Chemistry Parameters by EPA /	Standard Methods								
Chloride	82.1	1.11	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			S-9 1-2 001-18 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, I	L <b>.P.</b>				
<b>General Chemistry Paramet</b>	ters by EPA / Standard Methods								
Chloride	56.9	1.12	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

11.0

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			8-10 0-1 001-19 (Sa	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, l	L <b>.P.</b>				
<b>General Chemistry Parame</b>	ters by EPA / Standard Methods								
Chloride	88.4	1.11	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

10.0

Permian Basin Environmental Lab, L.P.

Fax:

## SS-10 1-2

### 8E24001-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Permian Basin Environmental Lab, L.P.										
General Chemistry Parameters by EPA /	<b>Standard Methods</b>									
Chloride	56.5	1.12	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0		
% Moisture	11.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216		

Fax:

## SS-11 0-1

#### 8E24001-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Permian Basin Environmental Lab, L.P.											
<b>General Chemistry Parameters</b>	s by EPA / Standard Methods										
Chloride	91.7	1.12	mg/kg dry	1	P8E2412	05/24/18	05/28/18	EPA 300.0			
% Moisture	11.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216			

	Perm	ian Basin Ei	vironmo	ental Lab. I	<b>P</b> .					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note	
			-11 1-2 01-22 (Se	oil)						
Midland TEXAS, 79705 Project Manager: Coty Woolf										
5004 Whitman Drive		Project Numb	er: 18-01	26						
North Jetty Environmental ServicesProject:Caza Forehand 27 State #4										

1.12 mg/kg dry

%

0.1

52.2

11.0

P8E2412

P8E2503

05/24/18

05/25/18

05/28/18

05/25/18

1

1

EPA 300.0

ASTM D2216

Chloride

% Moisture

## SS-12 0-1

#### 8E24001-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Permian Basin Environmental Lab, L.P.												
General Chemistry Parameters by EPA	Standard Methods											
Chloride	86.1	1.11	mg/kg dry	1	P8E2412	05/24/18	05/28/18	EPA 300.0				
% Moisture	10.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216				

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.

Fax:

		0124	001-24 (30	ii)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permiar	1 Basin E	nvironme	ntal Lab, I	<b>P.</b>				
<b>General Chemistry Parameter</b>	rs by EPA / Standard Methods								
Chloride	52.9	1.14	mg/kg dry	1	P8E2412	05/24/18	05/28/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

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.

Fax:

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			5-13 0-1 001-25 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	an Basin E	nvironme	ntal Lab, I	<b>P.</b>				
General Chemistry Parame	eters by EPA / Standard Methods								
Chloride	3470	54.3	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0	

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

8.0

Permian Basin Environmental Lab, L.P.

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

SS-13 1-2 8E24001-26 (Soil)												
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
	Permia	n Basin E	nvironme	ntal Lab, I	L. <b>P.</b>							
<b>General Chemistry Paramet</b>	ters by EPA / Standard Methods											
Chloride	4820	53.2	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0				

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

6.0

## 8E24001-27 (Soil)

#### Reporting Result Limit Units Dilution Batch Analyzed Method Notes Analyte Prepared Permian Basin Environmental Lab, L.P. General Chemistry Parameters by EPA / Standard Methods 25 Chloride 3060 mg/kg dry P8E2412 05/24/18 EPA 300.0 26.9 05/25/18 % Moisture 7.0 0.1 % 1 P8E2503 05/25/18 05/25/18 ASTM D2216

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.

Fax:

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

	SS-14 1-2 8E24001-28 (Soil)											
		8E24(	JUI-28 (So	11)								
		Reporting										
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
		n Basin E	nvironme	ntal Lab, I	L <b>.P.</b>							
<b>General Chemistry Paramet</b>	ters by EPA / Standard Methods											
Chloride	5090	53.2	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0				

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

6.0

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

SS-15 0-1 8E24001-29 (Soil)												
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
	Perm	ian Basin E	nvironme	ntal Lab, l	L <b>.P.</b>							
<b>General Chemistry Paramete</b>	ers by EPA / Standard Methods	5										
Chloride	3120	26.6	mg/kg dry	25	P8E2412	05/24/18	05/25/18	EPA 300.0				

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

6.0

Fax:

## SS-15 1-2

#### 8E24001-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Permian Basin Environmental Lab, L.P.												
General Chemistry Parameters by EPA	/ Standard Methods											
Chloride	4640	53.8	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0				
% Moisture	7.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216				

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

SS-16 0-1 8E24001-31 (Soil)												
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
	Permi	an Basin E	nvironme	ntal Lab, l	L <b>.P.</b>							
<b>General Chemistry Parameter</b>	rs by EPA / Standard Methods											
Chloride	2820	53.8	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0				

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

7.0

Permian Basin Environmental Lab, L.P.

## SS-16 1-2

### 8E24001-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes				
	Permi	an Basin E	nvironmeı	ıtal Lab, I	<b>P</b> .								
General Chemistry Parameters by EPA /	General Chemistry Parameters by EPA / Standard Methods												
Chloride	4390	53.8	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0					
% Moisture	7.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216					

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.

Fax:

## SS-17 0-1

#### 8E24001-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Permian Basin Environmental Lab, L.P.											
General Chemistry Parameters by	EPA / Standard Methods										
Chloride	3790	54.3	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0			
% Moisture	8.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216			

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.

Fax:

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			5-17 1-2 001-34 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, l	L <b>.P.</b>				
<b>General Chemistry Parameter</b>	ters by EPA / Standard Methods								
Chloride	4550	53.8	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0	

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

7.0

Fax:

## SS-18 0-1

#### 8E24001-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironmeı	ntal Lab, I	<b>P</b> .				
General Chemistry Parameters by EPA	Standard Methods								
Chloride	4080	53.2	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

#### Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf

Fax:

			5-18 1-2 )01-36 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	n Basin E	nvironme	ntal Lab, l	L. <b>P.</b>				
<b>General Chemistry Paramet</b>	ers by EPA / Standard Methods								
Chloride	4790	53.2	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0	

%

1

P8E2503

05/25/18

05/25/18

ASTM D2216

0.1

6.0

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### Permian Basin Environmental Lab, L.P.

		Reporting	<b></b>	Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P8E2408 - *** DEFAULT PREP ***										
Blank (P8E2408-BLK1)				Prepared: 0	)5/24/18 A1	nalyzed: 05	5/28/18			
Chloride	ND	1.00	mg/kg wet							
LCS (P8E2408-BS1)				Prepared: 0	)5/24/18 Ai	nalyzed: 05	5/28/18			
Chloride	391	1.00	mg/kg wet	400		97.7	80-120			
LCS Dup (P8E2408-BSD1)				Prepared: 0	)5/24/18 Ai	nalyzed: 05	5/28/18			
Chloride	392	1.00	mg/kg wet	400		97.9	80-120	0.176	20	
Duplicate (P8E2408-DUP1)	Sou	rce: 8E24001	-01	Prepared: 0	)5/24/18 Aı	nalyzed: 05	5/28/18			
Chloride	111	1.09	mg/kg dry		117			5.60	20	
Duplicate (P8E2408-DUP2)	Sou	rce: 8E24001	-11	Prepared: 0	)5/24/18 Aı	nalyzed: 05	5/28/18			
Chloride	75.0	1.11	mg/kg dry		75.1			0.192	20	
Matrix Spike (P8E2408-MS1)	Sou	rce: 8E24001	-01	Prepared: 0	)5/24/18 Ai	nalyzed: 05	5/28/18			
Chloride	2700	27.2	mg/kg dry	2720	117	94.9	80-120			
Batch P8E2412 - *** DEFAULT PREP ***										
Blank (P8E2412-BLK1)				Prepared: 0	)5/24/18 Aı	nalyzed: 05	5/28/18			
Chloride	ND	1.00	mg/kg wet							
LCS (P8E2412-BS1)				Prepared: 0	)5/24/18 Aı	nalyzed: 05	5/28/18			
Chloride	397	1.00	mg/kg wet	400		99.2	80-120			
LCS Dup (P8E2412-BSD1)				Prepared: 0	)5/24/18 Aı	nalyzed: 05	5/28/18			
Chloride	392	1.00	mg/kg wet	400		98.0	80-120	1.23	20	

Permian Basin Environmental Lab, L.P.

#### 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 P8E2412 - *** DEFAULT PREP ***										
Duplicate (P8E2412-DUP1)	Sou	rce: 8E24001	-21	Prepared:	05/24/18 A	nalyzed: 05	5/28/18			
Chloride	91.7	1.12	mg/kg dry		91.7			0.0368	20	
Duplicate (P8E2412-DUP2)	Sou	rce: 8E24001	-31	Prepared:	05/24/18 A	nalyzed: 05	5/28/18			
Chloride	2830	53.8	mg/kg dry		2820			0.229	20	
Matrix Spike (P8E2412-MS1)	Sou	rce: 8E24001	-21	Prepared:	05/24/18 A	nalyzed: 05	5/28/18			
Chloride	2060	28.1	mg/kg dry	2250	91.7	87.8	80-120			
Batch P8E2503 - *** DEFAULT PREP ***										
Blank (P8E2503-BLK1)				Prepared &	& Analyzed:	05/25/18				
% Moisture	ND	0.1	%							
Duplicate (P8E2503-DUP1)	Sou	rce: 8E24001	-26	Prepared &	& Analyzed:	05/25/18				
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P8E2503-DUP2)	cate (P8E2503-DUP2) Source: 8E24001-36									
% Moisture	7.0	0.1	%		6.0			15.4	20	

#### **Notes and Definitions**

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

Bin Barron		
	Date:	5/29/2018

Report Approved By:

Brent Barron, Laboratory Director/Technical Director

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

Permian Basin Environmental Lab, L.P.

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Box</td><td>Nocth</td><td>or</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>FIELD CODE</td><td>00 4238</td><td></td><td></td><td></td><td>12</td><td>1</td><td>┢</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td><math> \mathcal{V} </math></td><td>4</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td><math>\sim</math></td><td>J r</td><td></td><td>,  -</td><td>- </td><td></td><td>11</td><td></td><td>Inature</td><td>20</td><td>i<mark>d</mark>i</td><td>Iddres</td><td>lame</td><td>nager:</td><td></td></tr><tr><td></td><td></td><td></td><td>N</td><td>X</td><td>ģ</td><td></td><td></td><td></td><td>1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-</td><td>- 1</td><td></td><td></td><td></td><td>?</td><td></td><td>γ  </td><td>8</td><td></td><td>Sampler Signature:</td><td>Telephone No:</td><td>City/State/Zip:</td><td>Company Address:</td><td>Company Name</td><td>Project Manager:</td><td></td></tr><tr><td></td><td>Ŋ</td><td>Ś</td><td>₹  \  </td><td><u>,</u></td><td></td><td>Special Instructions</td><td>K</td><td><math>\hat{\mathbf{x}}</math></td><td>ł</td><td><math>\mathcal{I}</math></td><td></td><td><u></u></td><td></td><td>1</td><td></td><td>~</td><td>#</td><td>only)</td><td>Sam</td><td>Tele</td><td>City</td><td>Con</td><td>Con</td><td>Pro</td><td></td></tr><tr><td></td><td>Relinquished by:</td><td>41010</td><td>Relinguished hy</td><td>Relinquished by:</td><td></td><td>ocial Ins</td><td></td><td>000</td><td>20</td><td>\$ /</td><td>20</td><td>) )</td><td></td><td></td><td>×,</td><td>№ LAB # (lab use only)</td><td>ORDER #</td><td>(lab use only)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>Relin</td><td></td><td>Rein</td><td>Reli</td><td>1</td><td>Se</td><td>T</td><td>ę</td><td></td><td>,</td><td>1</td><td></td><td>,</td><td>26</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>								

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Temperature Upon Receipt Received: 2. 0 °C Adjustent: 2. 4 °C	PS PS	s) ntain oler()	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?		╂	$\left  - \right $			┣	┣	┣	_				e For			K	17	432	1_
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



# Analytical Report

## **Prepared for:**

Coty Woolf North Jetty Environmental Services 5004 Whitman Drive Midland, TEXAS 79705

Project: Caza Forehand 27 State #4 Project Number: 18-0126 Location: NM

Lab Order Number: 8F06010



NELAP/TCEQ # T104704516-17-8

Report Date: 06/07/18

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-13 0-1	8F06010-01	Soil	06/01/18 10:09	06-06-2018 11:30
SS-13 1-2	8F06010-02	Soil	06/01/18 10:17	06-06-2018 11:30
SS-14 0-1	8F06010-03	Soil	06/01/18 10:25	06-06-2018 11:30
SS-14 1-2	8F06010-04	Soil	06/01/18 10:37	06-06-2018 11:30
SS-15 0-1	8F06010-05	Soil	06/01/18 11:54	06-06-2018 11:30
SS-15 1-2	8F06010-06	Soil	06/01/18 11:58	06-06-2018 11:30
SS-16 0-1	8F06010-07	Soil	06/01/18 10:43	06-06-2018 11:30
SS-16 1-2	8F06010-08	Soil	06/01/18 10:50	06-06-2018 11:30
SS-17 0-1	8F06010-09	Soil	06/01/18 11:07	06-06-2018 11:30
SS-17 1-2	8F06010-10	Soil	06/01/18 11:20	06-06-2018 11:30
SS-18 0-1	8F06010-11	Soil	06/01/18 11:26	06-06-2018 11:30
SS-18 1-2	8F06010-12	Soil	06/01/18 11:38	06-06-2018 11:30
SS-19 0-1	8F06010-13	Soil	06/01/18 11:42	06-06-2018 11:30
SS-19 1-2	8F06010-14	Soil	06/01/18 11:50	06-06-2018 11:30

#### SS-13 0-1 8F06010-01 (Soil)

		9L 00(	010-01 (50	II)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	n Basin E	nvironme	ntal Lab, L	<b>P.</b>				
<b>General Chemistry Parameters by EPA</b>	/ Standard Methods								
Chloride	ND	1.10	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

Permian Basin Environmental Lab, L.P.

North Jetty Environmental Services 5004 Whitman Drive Midland TEXAS, 79705	Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf								
SS-13 1-2 8F06010-02 (Soil)									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin Er	vironme	ntal Lab, I	L <b>.P.</b>				
General Chemistry Parameters by EPA	/ Standard Method	8							
Chloride	7.52	1.10	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	

%

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P8F0704

06/07/18

06/07/18

ASTM D2216

0.1

9.0

Permian Basin Environmental Lab, L.P.

% Moisture

Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf Fax:

			8-14 0-1 )10-03 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, I	L.P.				
<b>General Chemistry Paramet</b>	ters by EPA / Standard Methods								
Chloride	26.8	1.06	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	

%

1

P8F0704

06/07/18

06/07/18

ASTM D2216

0.1

6.0

Permian Basin Environmental Lab, L.P.

Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf Fax:

			S-14 1-2 )10-04 (So	oil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, I	<b>P</b> .				
<b>General Chemistry Paramet</b>	ters by EPA / Standard Method	s							
Chloride	17.1	1.09	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	

%

1

P8F0704

06/07/18

06/07/18

ASTM D2216

0.1

8.0

Permian Basin Environmental Lab, L.P.

Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf Fax:

			8-15 0-1 )10-05 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, I	<b>P</b> .				
<b>General Chemistry Parameter</b>	s by EPA / Standard Method	s							
Chloride	19.5	1.06	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	

%

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P8F0704

06/07/18

06/07/18

ASTM D2216

0.1

6.0

P	roject Numbe	er: 18-012		State #4			
Pr	oject Manage	er: Coty V	Voolf				
	SS	-15 1-2					
	8F060	10-06 (So	il)				
Result	Reporting Limit	Units	Dilution	Batch	Prenared	Analyzed	Method
-		Project Manag SS 8F060 Reporting	Project Manager: Coty V SS-15 1-2 8F06010-06 (So Reporting	8F06010-06 (Soil) Reporting	Project Manager: Coty Woolf SS-15 1-2 8F06010-06 (Soil) Reporting	Project Manager: Coty Woolf SS-15 1-2 8F06010-06 (Soil) Reporting	Project Manager: Coty Woolf SS-15 1-2 8F06010-06 (Soil) Reporting

General Chemistry Parameters by EP.	A / Standard Methods							
Chloride	14.3	1.08 mg/kg dry	/ 1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	7.0	0.1 %	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

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.

Notes

Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf Fax:

			5-16 0-1 )10-07 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, I	<b>P</b> .				
<b>General Chemistry Parameter</b>	rs by EPA / Standard Method	<b>S</b>							
Chloride	81.3	1.09	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	

%

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P8F0704

06/07/18

06/07/18

ASTM D2216

0.1

8.0

Permian Basin Environmental Lab, L.P.

Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf Fax:

			5-16 1-2 )10-08 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, I	<b>P</b> .				
<b>General Chemistry Paramet</b>	ters by EPA / Standard Method	s							
Chloride	39.8	1.09	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	

%

1

P8F0704

06/07/18

06/07/18

ASTM D2216

0.1

8.0

North Jetty Environmental Services 5004 Whitman Drive Midland TEXAS, 79705	Project: Caza Forehand 27 State #4 Fa: Project Number: 18-0126 Project Manager: Coty Woolf							Fax:	
SS-17 0-1 8F06010-09 (Soil)									
		01'000	10-07 (30	ii)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin Ei	ivironme	ntal Lab, I	L.P.				
General Chemistry Parameters by EPA	/ Standard Methods	5							
Chloride	42.1	1.08	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	

%

1

P8F0704

06/07/18

06/07/18

ASTM D2216

0.1

7.0

% Moisture

Fax:

#### 8F06010-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	n Basin Ei	nvironmer	ıtal Lab, I	<b>P.</b>				
<b>General Chemistry Parameters</b>	by EPA / Standard Methods								
Chloride	57.8	1.09	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

Fax:

SS-	-18	0-1

#### 8F06010-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	n Basin E	nvironmer	ıtal Lab, I	<b>P.</b>				
General Chemistry Parameters	s by EPA / Standard Methods								
Chloride	86.5	1.10	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

North Jetty Environmental Services		Proj	ect: Caza F	orehand 27	State #4			Fax:	
5004 Whitman Drive		Project Numl	ber: 18-012	6					
Midland TEXAS, 79705	I	Project Manag	ger: Coty W	/oolf					
		S	8-18 1-2						
		8F06	010-12 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, I	L.P.				
General Chemistry Parameters by EPA	/ Standard Method	s							
Chloride	53.1	1.10	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

Project: Caza Forehand 27 State #4 Project Number: 18-0126 Project Manager: Coty Woolf Fax:

ASTM D2216

			8-19 0-1 )10-13 (So	oil)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permian	ı Basin E	nvironme	ntal Lab, I	P.				
<b>General Chemistry Parame</b>	eters by EPA / Standard Methods								
Chloride	14.8	1.01	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	

%

1

P8F0704

06/07/18

06/07/18

0.1

1.0

Permian Basin Environmental Lab, L.P.

## SS-19 1-2

## 8F06010-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permian	n Basin Ei	nvironmer	ntal Lab, I	<b>P</b> .				
<b>General Chemistry Parameters</b>	by EPA / Standard Methods								
Chloride	35.7	1.00	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	ND	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

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.

Fax:

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P8F0610 - *** DEFAULT PREP ***										
Blank (P8F0610-BLK1)				Prepared &	Analyzed:	06/06/18				
Chloride	ND	1.00	mg/kg wet							
LCS (P8F0610-BS1)				Prepared &	Analyzed:	06/06/18				
Chloride	380	1.00	mg/kg wet	400		95.1	80-120			
LCS Dup (P8F0610-BSD1)				Prepared &	Analyzed:	06/06/18				
Chloride	373	1.00	mg/kg wet	400		93.4	80-120	1.84	20	
Duplicate (P8F0610-DUP1)	Sou	rce: 8F06010	-01	Prepared &	Analyzed:	06/06/18				
Chloride	ND	1.10	mg/kg dry		ND				20	
Duplicate (P8F0610-DUP2)	Sou	rce: 8F06010	-11	Prepared &	Analyzed:	06/06/18				
Chloride	87.4	1.10	mg/kg dry		86.5			0.973	20	
Matrix Spike (P8F0610-MS1)	Sou	rce: 8F06010	-01	Prepared &	Analyzed:	06/06/18				
Chloride	1960	27.5	mg/kg dry	2200	ND	89.4	80-120			
Batch P8F0704 - *** DEFAULT PREP ***										
Blank (P8F0704-BLK1)				Prepared &	Analyzed:	06/07/18				
% Moisture	ND	0.1	%							
Duplicate (P8F0704-DUP1)	Sou	rce: 8F06002	-04	Prepared &	Analyzed:	06/07/18				
% Moisture	9.0	0.1	%		10.0			10.5	20	
Duplicate (P8F0704-DUP2)	Sou	rce: 8F06008	-01	Prepared &	Analyzed:	06/07/18				
% Moisture	2.0	0.1	%		2.0			0.00	20	

Permian Basin Environmental Lab, L.P.

#### **Notes and Definitions**

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

Run Barron		
	Date:	

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.

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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.

6/7/2018

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