## 2RP-3875 REMEDIATION REPORT Nash Draw Tank Battery #24 Eddy County, New Mexico

LAI Project No. 16-0108-05

March 23, 2017

Prepared for:

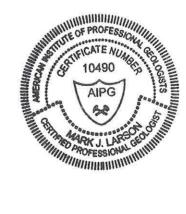
XTO Energy, Inc. 500 W. Illinois Ave., Suite 100 Midland, Texas 79707

Prepared by:

Larson & Associates, Inc. 507 North Marienfeld Street, Suite 205 Midland, Texas 79701

Mark J. Larson, P.G.

Certified Professional Geologist #10490



This Page Intentionally Left Blank

.

## **Table of Contents**

1.0	INTRODUCTION	1
1.1	Background	1
1.2	Physical Setting	1
1.3	Recommended Remediation Action Levels	2
2.0	REMEDIATION	2
3.0	CONCLUSIONS	2

## Tables

Table 1 Assessment Soil Sample Analytical Data Summa
--

## Figures

Figure 1	Topographic Map
Figure 2	Aerial Map
Figure 3	Site Map Showing Excavations and Depths

## Appendices

Appendix A	OCD Approval
Appendix B	Laboratory Reports
Appendix C	Photographs
Appendix D	Waste Manifests
Appendix E	Initial and Final C-141

2RP-3875 Remediation Report Nash Draw Tank Battery #24 March 23, 2017

## 1.0 INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this report on behalf of XTO Energy, Inc. (XTO) for submittal to the New Mexico Oil Conservation Division (OCD) District 2, in Artesia, New Mexico and U.S. Bureau of Land Management (BLM) in Carlsbad, New Mexico, to document soil remediation at the Nash Draw #24 tank battery (Site). The Site is located in Unit H (SE/4, NE/4), Section 14, Township 23 South, Range 29 East in Eddy County, New Mexico. The geodetic position is North 32° 18' 27.64777" and West 103° 56' 58.49626". Figure 1 presents a topographic map. Figure 2 presents an aerial map.

## 1.1 Background

On June 21, 2016, LAI personnel used a Terraprobe<sup>®</sup> direct-push rig to collect soil samples at five (5) locations (DP-05-01 through DP-05-05). Soil samples were collected between ground surface and approximately four (4) feet below ground surface (bgs). A background sample (DP-05-BG) was collected about 80 feet southwest of the Site at approximately 1 foot bgs. The laboratory analysis and initial C-141 were submitted to OCD which assigned remediation permit number 2RP-3875, on September 8, 2016.

On September 29, 2016, LAI personnel supervised a backhoe operated by SDR Enterprises, LLC (SDR), Hobbs, New Mexico, to collect soil samples to delineate impacts observed in samples from DP-05-01, DP-05-02, and DP-05-04. On September 29, 2016, a second background sample was collected about south of the Site at approximately 4 feet bgs. On October 19, 2016, LAI personnel supervised Scarborough Drilling, Inc. (SDI), Lamesa, Texas, to collect soil samples with an air rotary rig and jam tube sampler to delineate chloride observed in samples from DP-05-04. The laboratory reported 369 mg/kg chloride in the confirmation sample. Table 1 presents the analytical data summary for the assessment soil samples

On November 9, 2016, LAI, on behalf of XTO, submitted a plan OCD District 2 and BLM for approval to remediate impacts to soil based on laboratory analysis of soil samples collected on June 21, 2016, September 29, 2016 and October 19, 2016. On November 10, 2016, OCD District 2 approved the remediation plan. Appendix A presents the OCD approval.

## 1.2 Physical Setting

The physical setting is as follows:

- Elevation is approximately 2,987 feet above mean sea level (AMSL);
- Topography slopes to the east towards a playa lake (Salt Lake) located about 300 feet north of the Site;
- Surface geology is comprised of unconsolidated Holocene to mid- Pleistocene-age eolian and piedmont-slope deposits that are approximately 80 feet thick according to a log from a nearby well;
- The Triassic-age Chinle formation of the Dockum group underlies the unconsolidated deposits and is comprised of interbedded sand, clay, and mudstone;

 According to State of New Mexico Office of the State Engineer (NMOSE) records a fresh water well is located about 1.4 miles southeast in Unit J (NW/4, SE/4), Section 24, Township 23 South, Range 29 East with groundwater reported at about 54 feet bgs.

## 1.3 Recommended Remediation Action Levels

Recommended remediation action levels (RRAL) were calculated for benzene, BTEX and TPH based on the following criteria established by the OCD in *"Guidelines for Remediation of Leaks, Spills and Releases, August 13,* 1993":

Criteria	Result	Score
Depth-to-Groundwater	50 - 99 feet	10
Wellhead Protection Area	No	0
Distance to Surface Water Body	200 – 1,000 Horizontal Feet	10

The following RRAL apply to the release for ranking score: 20

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 100 mg/Kg

## 2.0 REMEDIATION

Soil remediation was performed on November 11, 2016, according to the plan approved by OCD District 2 on November 10, 2016. On November 8, 2016, SDR, under supervision from LAI, used the backhoe to collect a soil sample at DP-05-02 from approximately 6 feet bgs to confirm the chloride concentration (67.9 mg/Kg) reported in the sample on September 29, 2016. Permian Basin Environmental Lab (PBEL) analyzed the sample for chloride and reported 369 mg/Kg. Very moist soil conditions were encountered at about 8 feet bgs and sample collection was terminated.

On November 11, 2016, SDR excavated soil from the area of DP-05-01 measuring about 25 x 25 feet to about 3 feet bgs. SDR excavated soil from the area of DP-05-02 measuring about 15 x 15 feet and DP-05-03 over an area measuring about 25 x 25 feet to about 2 feet bgs. Soil was excavated from the area of DP-05-05 over an area measuring approximately 25 x 25 feet to about 3 feet bgs. The excavations were filled with caliche.

Soil was excavated from the area of DP-05-04 over an area measuring about  $25 \times 30$  feet to about 4 feet bgs where a 20 mil thickness polyethylene liner was installed in the bottom of the excavation. The excavation above the liner was filled with caliche to ground surface.

Approximately 344 cubic yards of contaminated soil was disposed at Lea Land Landfill, LLC. Table 1 presents the analytical data summary for sample DP-05-02, 6 feet. Figure 3 presents the remediation areas. Appendix B presents the confirmation sample laboratory report. Appendix C presents photographs. Appendix D presents the waste manifests. Appendix E presents the initial and final C-141.

## 3.0 CONCLUSIONS

Soil was remediated according to the remediation plans approved by OCD District 2. XTO requests no further action for 2RP-3875.

Tables

Table 1 2RP-3875

# Investigation Soil Sample Analytical Data Summary

XTO Energy, Inc., Nash Draw Tank Battery 24 Unit H (SE/4, NE/4), Section 14, Township 23 South, Range 29 East

Eddy County, New Mexico

Location	Depth	Collection	Status	C6 - C12	>C12 - C28	>C28 - C35	Н	Chloride
	(Feet)	Date		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
OCD RRAL:							100	
DP-05 -BG	0 - 1	6/21/2016	In-Situ	30.2	63.7	<26.0	93.9	30.2
	4	9/29/2016	In-Situ	I		I	I	<5.75
DP-05-01	0 - 1	6/21/2016	Excavated	270	2,590	231	3,091	172
	1 - 2	6/21/2016	Excavated	43.4	162	38.7	244.1	ţ
	2 - 3	6/21/2016	Excavated	68.7	42.8	<27.8	111.5	l
	3 - 4	6/21/2016	In-Situ	<28.4	<28.4	<28.4	<28.4	1
DP-05-02	0 - 1	6/21/2016	Excavated	269	3,020	334	3,623	727
	1 - 2	6/21/2016	Excavated	<32.9	73.8	<32.9	73.8	712
	2 - 3	6/21/2016	In-Situ	41.8	36.3	<32.1	78.1	557
	4	9/29/2016	In-Situ	1	1	I	I	311
	9	9/29/2016	In-Situ	I	1		ļ	67.9
		11/8/2016	In-Situ	l	I	ł	1	369
	8	9/29/2016	In-Situ	1	I	E .	Ē	666
DP-05-03	0 - 1	6/21/2016	Excavated	<137	757	208	965	48.2
	1 - 2	6/21/2016	Excavated	38.7	116	38.1	192.8	Ĩ
	2 - 3	6/21/2016	In-Situ	<30.5	<30.5	<30.5	<30.5	ï
	3 - 4	6/21/2016	In-Situ		ŀ	Ŧ	() ()	Ĩ

Investigation Soil Sample Analytical Data Summary 2RP-3875 Table 1

## XTO Energy, Inc., Nash Draw Tank Battery 24

Unit H (SE/4, NE/4), Section 14, Township 23 South, Range 29 East

Eddy County, New Mexico

Location	Depth	Collection	Status	C6 - C12	>C12 - C28	>C28 - C35	HdT	Chloride
	(Feet)	Date		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
OCD RRAL:							100	
DP-05-04	0 - 1	6/21/2016	Excavated	259	4,930	587	5,776	554
	1 - 2	6/21/2016	Excavated	94.0	1,820	202	2,120	2,460
	2 - 3	6/21/2016	Excavated	50.4	34.8	<30.5	85.2	2,850
	3 - 4	6/21/2016	Excavated	1	1	1.200		4,790
	9	9/29/2016	In-Situ	l	ł	Ē	Ê	2,590
	∞	9/29/2016	In-Situ	I	ł	Ĩ	Ĭ	2,660
	10	9/29/2016	In-Situ	ł.	ł	Ĩ		1,630
	15	10/19/2016	In-Situ	l	I	Ï		2,390
	20	10/19/2016	In-Situ	1	1	Ì	Î	12,100*
DP-05-05	0 - 1	6/21/2016	Excavated	231	4,100	741	5,072	112
	1 - 2	6/21/2016	Excavated	40.9	494	90.5	625.4	I
	2 - 3	6/21/2016	Excavated	47.3	271	59.1	377.4	
	3 - 4	6/21/2016	In-Situ	<29.4	<29.4	<29.4	<29.4	Ī
			(chloride) 200 015M 201 005 mothod 8015M 215 01 200 015M (TBH) 200 01chloride)	Addlend Torree	P EDA CIA/ 846 mg	thed solen (TDH)	and 300 0 (chloric	(a)

Notes: laboratory analysis performed by Permian Basin Environmental Lab, Midland, Texas, by EPA SW-846 method 8015M (TPH) and 300.0 (chloride)

Depth in feet below ground surface (bgs) mg/Kg: milligrams per kilogram equivalent to parts per million (ppm) RRAL: Remediation action level calculated from OCD guidence document (August 13, 1993) \*: groundwater observed at approximately 24 feet bgs

2RP-3872 Table 2

## XTO Energy, Inc., Nash Draw Tank Battery 15 and 33 Remediation Soil Sample Analytical Data Summary

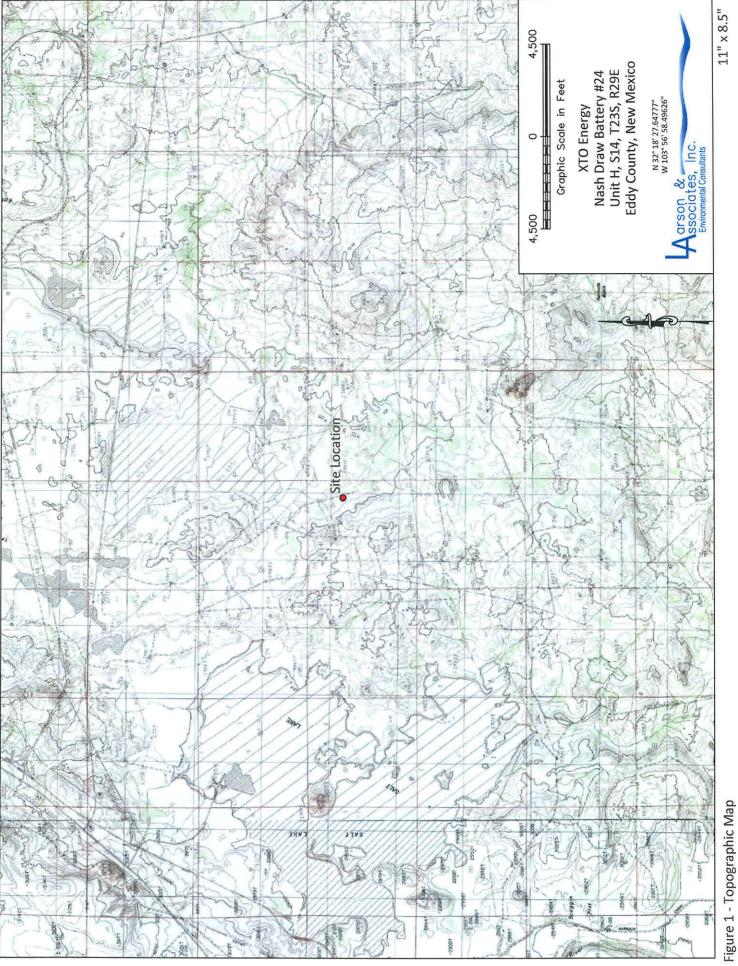
# Unit D (NW/4, NW/4), Section 13, Township 23 South, Range 29 East

Eddy County, New Mexico

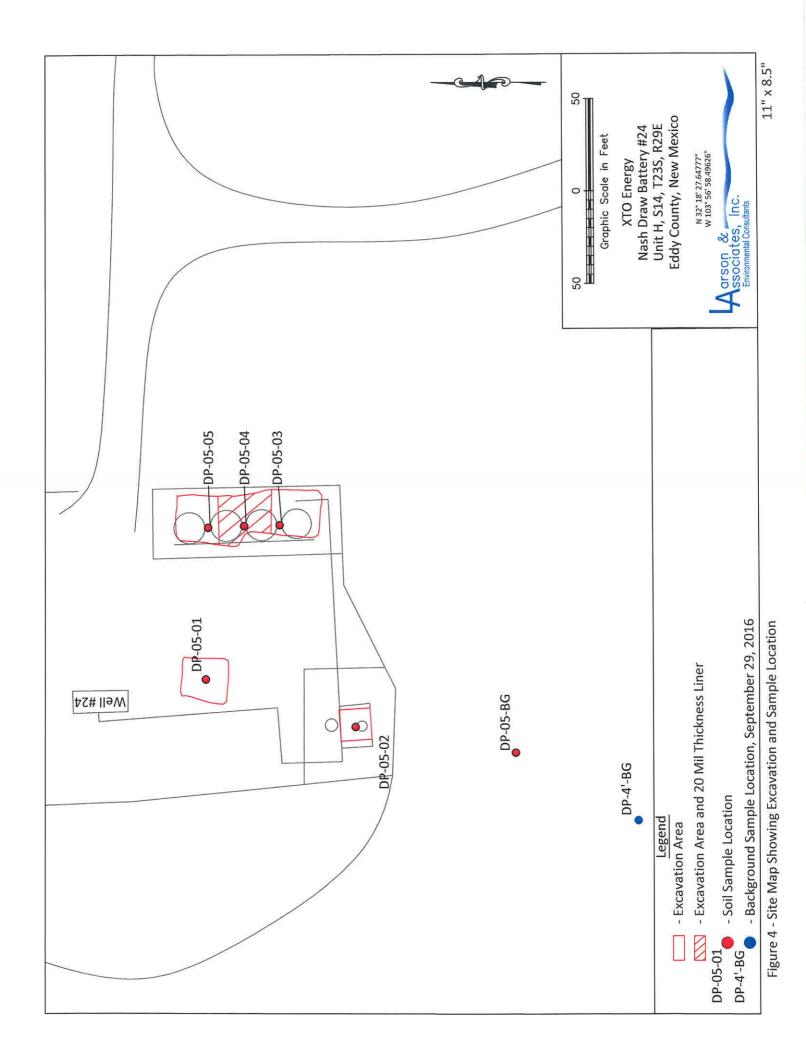
Location	Sidewall	Depth	Collection	Status	Benzene	BTEX	C6 - C12	>C12 - C28	>C28 - C35	HdT
		(Feet)	Date		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
OCD RRAL:					10	50				100
DP-04-02	North	2	11/15/2016	In-Situ	<0.00122	<0.00854	<30.5	<30.5	<30.5	<30.5
	East	2	11/15/2016	In-Situ	<0.00116	<0.00814	<29.1	<29.1	<29.1	<29.1
	West	2	11/15/2016	In-Situ	<0.00116	<0.00814	<29.1	<29.1	<29.1	<29.1
	South	2	11/15/2016	Excavated	<0.00116	<0.00814	<29.1	143	89.2	232.2
		2	11/21/2016	In-Situ	1212	E	<28.4	<28.4	<28.4	<28.4
DP-04-04	North	2	11/15/2016	In-Situ	<0.00118	<0.00824	<29.4	<29.4	<29.4	<29.4
	East	2	11/15/2016	In-Situ	<0.00114	<0.00341	<28.4	<28.4	<28.4	<28.4
	West	2	11/15/2016	Excavated	<0.00116	<0.00814	<29.1	105	46.9	151.9
		2	11/21/2016	In-Situ	I	I	<28.7	<28.7	<28.7	<28.7
	South	2	11/15/2016	In-Situ	<0.00114	<0.00341	<28.4	<28.4	<28.4	<28.4
								4 		

Notes: laboratory analysis performed by Permian Basin Environmental Lab, Midland, Texas, by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH) Depth in feet below ground surface (bgs) mg/Kg: milligrams per kilogram equivalent to parts per million (ppm) RRAL: Remediation action level calculated from OCD guidence document (August 13, 1993) P: Denotes laboratory results pending

Figures







Appendix A

**Remediation Plan Approval** 

From:	Patterson, Heather, EMNRD [Heather.Patterson@state.nm.us]
Sent:	Thursday, November 10, 2016 2:20 PM
То:	Mark Larson; Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD;
	hprice@blm.gov
Subject:	RE: Re 2RP-3875, Nash Draw Tank Battery #24, Delineation Results from DP-
	05-02, November 8, 2016

RE: XTO \* Nash Draw Battery #24 \* 30-015-28271 \* 2RP-3875

Mark,

Your proposed remediation as well as your 11/9/2016 revisions to that proposal are approved. Thank you for keeping us updated with the changes you find in the field.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Heather Patterson Environmental Specialist NMOCD District II Office (575)748-1283 ext.101 Cell (575)703-0228

From: Mark Larson [mailto:Mark@laenvironmental.com]

Sent: Wednesday, November 09, 2016 3:12 PM To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; <u>hprice@blm.gov</u> Subject: Re 2RP-3875, Nash Draw Tank Battery #24, Delineation Results from DP-05-02, November 8, 2016

## Heather,

Per the remediation plan for the Nash Draw Tank Battery #24 (2RP-3875) soil samples were collected at location DP-05-02 on November 8, 2016. A sample was collected with a track hoe at 6 feet below ground surface (bgs). However after excavating soil to 8 feet bgs the soil was moist to the point of saturation with groundwater therefore no sample was collected from this depth interval. The sample from 6 feet bgs was analyzed for chloride and reported 369 mg/Kg. The chloride concentration in previous sample from DP-05-02 at 6 feet was 67.9 mg/Kg and the samples from 8 feet was 666 mg/Kg. The chloride results for the sample from 8 feet bgs is reflective of elevated chloride in groundwater due to proximity of the playa lake. Given these findings XTO proposes to excavate soil from the area 15 x 15 feet based on field observations, around DP-05-02 to about 4 feet bgs. Samples will be collected from the excavation sidewalls for laboratory analysis (BTEX and TPH) to determine if concentrations are below the RRAL. Additional soil will be removed as necessary to achieve the RRAL. A 20 mil thickness liner will be placed in the bottom of the excavation and filled to surface with clean soil. Attached are the revised drawing showing the sample location (DP-05-02), proposed remediation area and depth, updated analytical data summary and laboratory report. Your approval of the revised remediation plan

Appendix B

Laboratory Reports

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



## Analytical Report

## **Prepared for:**

Mark Larson Larson & Associates, Inc. P.O. Box 50685 Midland, TX 79710

Project: Nash Draw Site #24 Project Number: 16-0108-05 Location: Eddy Co. NM

Lab Order Number: 6K08010



NELAP/TCEQ # T104704156-16-6

Report Date: 11/09/16

Larson & Associates, Inc.	Project:	Nash Draw Site #24	Fax: (432) 687-0456
P.O. Box 50685	Project Number:	16-0108-05	
Midland TX, 79710	Project Manager:	Mark Larson	

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-05-02, 6'	6K08010-01	Soil	11/08/16 09:00	11-08-2016 17:12

[	Larson & Associates, Inc.	Project:	Nash Draw Site #24	Fax: (432) 687-0456
	P.O. Box 50685	Project Number:	16-0108-05	
	Midland TX, 79710	Project Manager:	Mark Larson	

## SP-05-02, 6'

6K08010-01	(Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Permian Basin Environmental Lab, L.P. General Chemistry Parameters by EPA / Standard Methods											
Chloride	369	1.20	mg/kg dry	1	P6K0805	11/08/16	11/08/16	EPA 300.0			
% Moisture	17.0	0.1	%	1	P6K0901	11/09/16	11/09/16	% calculation			

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.

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

Permian	Basin	Environmental	Lab.	L.P.
~ ~^ ~~	<b>X740111</b>	THE ARE ARE ARE ARE ARE ARE ARE ARE ARE AR		A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6K0805 - *** DEFAULT PREP ***										
Blank (P6K0805-BLK1)				Prepared &	k Analyzed:	11/08/16				
Chloride	ND	1.00	mg/kg wet							
LCS (P6K0805-BS1)				Prepared &	k Analyzed:	11/08/16				
Chloride	422	1.00	mg/kg wei	400		105	80-120			
LCS Dup (P6K0805-BSD1)				Prepared &	k Analyzed:	11/08/16				
Chloride	421		mg/kg wet	400		105	80-120	0.256	20	
Duplicate (P6K0805-DUP1)	Sou	rce: 6K07004	i-01	Prepared 8	k Analyzed:	11/08/16				
Chloride	2810	28.4	mg/kg dry		2930			4.07	20	
Duplicate (P6K0805-DUP2)	Sou	rce: 6K07004	-11	Prepared 8	k Analyzed:	11/08/16				
Chloride	29,1	1.23	mg/kg dry		28.2			3.19	20	
Matrix Spike (P6K0805-MS1)	Sou	rce: 6K07004	<b>01</b>	Prepared 8	k Analyzed:	11/08/16				
Chłoride	6330	28.4	mg/kg dry	4550	2930	74.7	80-120			QM-0
Batch P6K0901 - *** DEFAULT PREP ***										
Blank (P6K0901-BLK1)				Prepared &	k Analyzed:	11/09/16				
% Moisture	ND	0.1	%		·····					
Duplicate (P6K0901-DUP1)	Sou	rce: 6K07004	-17	Prepared 8	k Analyzed:	11/09/16				
% Moisture	19.0	0.1	%		4,0			130	20	

### Notes and Definitions

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

and and the second s Second s Report Approved By: Date: 11/9/2016

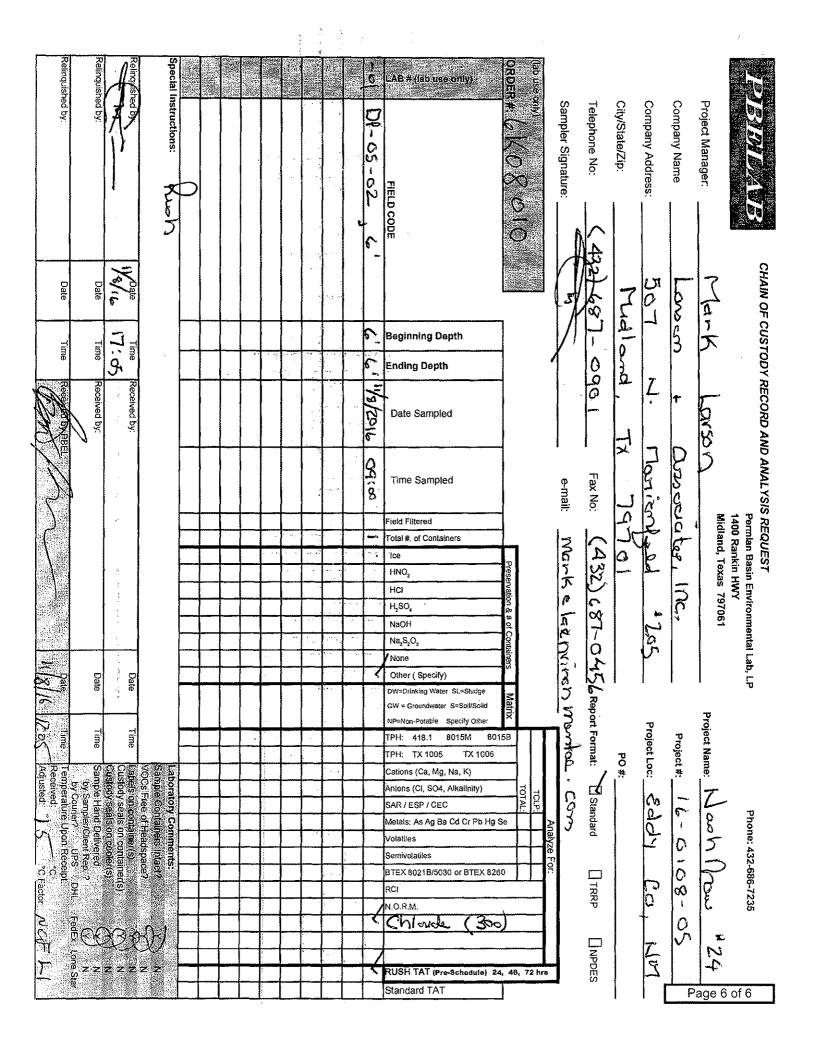
Brent Barron, Laboratory Director/Technical Director

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.



Appendix C

Photographs



Location Sign



Location Viewing Northeast Prior to Remediation, February 3, 2016



Location Viewing South Prior to Remediation, February 3, 2016



Excavation at DP-05-01 Viewing East, November 8, 2016

Remediation Report XTO Energy, Inc. Nash Draw Battery #24



Excavation DP-05-03, DP-05-04, and DP-05-05 Viewing Northeast, November 9, 2016



Excavation at DP-05-02 Viewing Northwest, November 14, 2016

Remediation Report XTO Energy, Inc. Nash Draw Battery #24



Liner Installed in Excavation (4 feet) DP-05-04 Viewing South, November 9, 2016



Liner Installed in Excavation (4 feet) DP-05-04 Viewing West, November 9, 2016

Remediation Report XTO Energy, Inc. Nash Draw Battery #24



Completed Remediation at Excavation DP-05-03, DP-05-04, DP-05-05 Viewing South, November 11, 2016



Completed Remediation at Excavation DP-05-01 Viewing West, November 11, 2016



Completed Remediation at Excavation DP-05-02 Viewing Southeast, November 11, 2016

Appendix D

Waste Manifests

LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048											
LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257											
NON	-HAZARDOUS WASTE MANIFEST NO	16128	I. PAG	BEOF_	2. TRAIL	ER NO.	15 the				
C	3. COMPANY NAME 4. ADDRESS			5. P	ICK-UP DATE						
G	PHONE NO. CITY	STATE	STATE ZIP			).	A STREET				
Е				1			1.53				
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	all and and	8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #				
N	8.			1.00							
	b.	Hard Street		5. A	are in the						
E	C. A STATE OF THE PROPERTY AND A STATE OF THE STATE OF										
R	d. All ALD AL	113			1000						
	12. COMMENTS OR SPECIAL INSTRUCTIONS:	A DA UR A			13. WASTE I	PROFILE N	0.				
А											
	14. IN CASE OF EMERG NAME PHONE NO	ENCY OR SPIL	L, COM	NTACT	24.11(21)	EMERGE	NOV NO				
Т	NAME PHONE NO				24-HOU	CEMEROI	INC F NO.				
0	15.GENERATOR'S CERTIFICATION: 1 Hereby declare that shipping name and are classified, packed, marked, and labeled, and are in al international and national government regulations, including applicable stat	l respects in proper con	ndition fo	or transport	by highway ac	cording to a	applicable				
R	PRINTED/TYPED NAME	SIGNATURE					DATE				
T	16. TRANSPORTER (1)	17.	TI	RANSPO	ORTER (2)	1. 18	i e e dett				
R A	NAME:	NAME:									
N S	TEXAS I.D. NO.	TEXAS I.D. NO.									
P O	IN CASE OF EMERGENCY CONTACT:	IN CASE OF EMERGENCY CONTACT:									
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of receipt of material	EMERGENCY PH 19. TRANSPO		(2): Ackn	owledgment of	receipt of	material				
T E	PRINTED/TYPED NAME	PRINTED/TYPED			See and						
R S	SIGNATURE DATE	SIGNATURE		1919		DATE	100-200				
D F		Marker 64, U. Ailes East of Ca			80, PHONE		87-4048				
I A S C P I O L	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS					1.2.2.4				
S I A T	21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby of facility is authorized and permitted to receive such wastes.	certify that the above c	lescribed	wastes we	ere delivered to	this facility	y, that the				
LY	AUTHORIZED SIGNATURE	CELL NO.		DAT	TE		TIME				
GENER	ATOR: COPIES 1 & 6 DISPOSAL SITI	COPIES 2 & 3			TRAN	SPORTERS	S: COPIES 4 & :				

00	1 100 1	1 4	
6.1	100	s a	
	P)		

	LEA LAND DIS MILE MARKER #64 US HWY 6							KIC	0		
LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257											
NON	-HAZARDOUS WASTE MANIFE	EST	NO	116129	1. PA	GE_OF	2. TRAIL	ER NO.	12		
	3. COMPANY NAME	4. ADD	RESS	ale sure		5,1	PICK-UP DATE				
G	PHONE NO.	STATE		ZIP 6.1	NRCC I.D. NC	),	APR L				
Е	7. NAME OR DESCRIPTION OF WASTE SHIPPED	2	Sec. 197	and the second	8. CON	TAINERS	9. TOTAL	10. UNIT	11. TEXAS		
				( Bridden of	No.	Туре	QUANTITY	Wt/Vol.	WASTE ID #		
N	<sup>a</sup> .	1	125.			Sec.	Sec. 20				
	b.										
E	C.			852693			No. of Contract				
R	d	5	1104 1	5.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A				1111			
A	12. COMMENTS OR SPECIAL INSTRUCTIONS:		<u> </u>				13. WASTE I	PROFILE N	IO.		
A									1.00		
	14. IN CAS	SE OF	EMER	GENCY OR SPH	L.CO	NTACT					
т	NAME	the second s	NE NO				24-HOUI	REMERGI	INCY NO.		
O R	shipping name and are classified, packed, marked, and	l labeled	, and are in	all respects in proper c	e contents of this consignment are fully and accurately described above by proper respects in proper condition for transport by highway according to applicable regulations, and are the same materials previously approved by LEA LAND, LLC SIGNATURE DATE						
Т	16. TRANSPORTER (1)			17.	т	PANSP	ORTER (2)	-			
R	NAME:			NAME:		NALIOI I	SRIER (2)				
A N	TEXAS I.D. NO.			TEXAS I.D. NO.							
S	IN CASE OF EMERGENCY CONTACT:					V CONTA	CT:				
P O	EMERGENCY PHONE:			EMERGENCY P	IN CASE OF EMERGENCY CONTACT:						
R T	18. TRANSPORTER (1): Acknowledgment of	f receipt	t of material			(2): Ack	nowledgment of	f receipt of	material		
E	PRINTED/TYPED NAME			PRINTED/TYPE	D NAME	5764	Sec. 1		1000		
R S	SIGNATURE	DATE						DATE	<u>.</u>		
1.1.1.1		ADE	DRESS:		1.12		PHONE	k	6		
	Lea Land, LLC		Mi	le Marker 64, U	J.S. Hv	vy 62/1	80,	575-8	87-4048		
D F I A			30	Miles East of C	Carlsba	d, NM			<u></u>		
S C P I	WM-01-035 - New Mexi		20. COMMENTS								
O L S I A T	21. <b>DISPOSAL FACILITY'S CERTIFICATION:</b> 1 Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.						y, that the				
LY	AUTHORIZED SIGNATURE			CELL NO.	•	DA	TE	1	ГІМЕ		
GUNER	ATOR: COPIES 1 & 6	DIS	EDOCAL SI	TE: COPIES 2 & 3	-	-	TRAN	SPOPTERS	S: COPIES 4 & 5		

	LEA LAND DISPO MILE MARKER #64 US HWY 62/180 • 3						KIC	0		
		A LA	ND, LLC			len se				
NON	-HAZARDOUS WASTE MANIFEST	NO	.16264	I. PA	GE_OF	2. TRAII	ER NO.			
	3. COMPANY NAME 4. ADDR	ESS	Sector of the	5.	PICK-UP DATE					
G	PHONE NO. CITY		STATE		ZIP 6.	TNRCC I.D. NO	).	a Vien		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CON	TAINERS		10. UNIT	11. TEXAS		
N	a.	-	Carl Carlo Carlo	No.	Туре	QUANTITY	Wt/Vol.	WASTE ID #		
	b.									
E	C.				1200					
	d.									
R		1.57								
	12. COMMENTS OR SPECIAL INSTRUCTIONS:					13. WASTE I	ROFILE N	0.		
A	14. IN CASE OF	EMERC	ENCY OD SDU	LCO	NTACT					
т	NAME PHONE	and the second	ENCY OR SPIL	L, CO	VIACI	24-HOU	R EMERGE	NCY NO.		
0	shipping name and are classified, packed, marked, and labeled, a	and are in al	l respects in proper co	contents of this consignment are fully and accurately described above by prop espects in proper condition for transport by highway according to applicable regulations, and are the same materials previously approved by LEA LAND, LL AGNATURE DATE						
R										
Т	16. TRANSPORTER (1)		17.	T	RANSP	ORTER (2)	1.1.1.1			
R A	NAME:		NAME:							
N S	TEXAS I.D. NO.		TEXAS I.D. NO.							
P O	IN CASE OF EMERGENCY CONTACT:		IN CASE OF EMERGENCY CONTACT:							
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of receipt of	of material	EMERGENCY PH 19. TRANSPO		(2): Ack	nowledgment of	receipt of i	material		
T E	PRINTED/TYPED NAME	>	PRINTED/TYPEI			1 States				
R S	SIGNATURE DATE	11.67	SIGNATURE				DATE	and and		
DF	Lea Land, LLC	Mile	Marker 64, U Ailes East of C		1. A	80, PHONE		87-4048		
I A S C P I O L	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS								
S I A T	21. <b>DISPOSAL FACILITY'S CERTIFICATION</b> facility is authorized and permitted to receive such wastes.	: I Hereby o	ertify that the above	described	I wastes w	ere delivered to	this facility	, that the		
LY	AUTHORIZED SIGNATURE		CELL NO.	-	DA	TE	Т	IME		
GENER	ATOR: COPIES 1 & 6 DISF	POSAL SITI	E: COPIES 2 & 3		_	TRAN	SPORTERS	COPIES 4 &		

LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048											
LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257											
NON	N-HAZARDOUS WASTE MANIF	EST	NO	116265	1. PA	GE_OF	2. TRAII	ER NO.	12		
	3. COMPANY NAME	4. ADDR	LESS	the states		5. 1	PICK-UP DATE				
G	PHONE NO.	CITY		STATE		ZIP 6.1	NRCC I.D. NO	)			
Е		CITT		JANE							
~	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON No.	TAINERS Type	9. TOTAL OUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N	a.	5.1		<u> </u>	city.	Type	Quantita				
Paral 1	b.					7.57					
E	c.										
1.1	d.	-	Set 19								
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:	1 and			1 - 1		13. WASTE 1	PROFIL E N	0		
A	12. COMMENTS ON SPECIAL INSTRUCTIONS.						15. WASTE	Rorice			
	14. IN CA	SE OF	EMER	GENCY OR SPII	L.CO	NTACT	-				
Т	NAME	PHON					24-HOUI	REMERGE	NCY NO.		
0	shipping name and are classified, packed, marked, and	d labeled,	and are in	the contents of this consignment are fully and accurately described above by prope Il respects in proper condition for transport by highway according to applicable te regulations, and are the same materials previously approved by LEA LAND, LL							
R	PRINTED/TYPED NAME			SIGNATURE DATE							
Т	16. TRANSPORTER (1)	1.1	273	17.	Т	RANSPO	ORTER (2)	22030	Carlos and		
R A	NAME:			NAME:							
N S	TEXAS I.D. NO.			TEXAS I.D.:NO.							
Р	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMERGENCY CONTACT:							
O R	EMERGENCY PHONE:	10/200		EMERGENCY PI		(2)		the first	and A		
T E	18. TRANSPORTER (1): Acknowledgment c	of receipt of	of material	19. TRANSPO			lowledgment of	receipt of	naterial		
R	PRINTED/TYPED NAME			PRINTED/TYPE	d name				10		
S	SIGNATURE	DATE		SIGNATURE	16 (9)	4.11		DATE	E		
DF	Lea Land, LLC	ADDF	Mi	e Marker 64, U Miles East of C		A second	80, PHONE		87-4048 -		
I A S C P I O L	PERMIT NO. WM-01-035 - New Mex	20. COMMENTS	41.20								
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION vastes.	: I Hereby	certify that the above	described	l wastes we	ere delivered to	this facility	, that the		
LY	AUTHORIZED SIGNATURE	de la	2	CELL NO.		DA	E	Т	IME		
OUNER	ATOR: COPIES 1 & 6			TE: COPIES 2 & 3	-	_		in on many of	COPIES 4 & 5		

	LEA LAND DIS MILE MARKER #64 US HWY						KIC	0				
	LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257											
NON	-HAZARDOUS WASTE MANIFI	EST NO	116266	1. PA	GEOF_	2. TRAIL	ER NO,	1. 1. 1. 1				
G	3. COMPANY NAME	4. ADDRESS			5. F	ICK-UP DATE		1232.05				
G	PHONE NO.	CITY	STATE		ZIP 6. 7	NRCC I.D. NO						
Е				- 192			100					
	7. NAME OR DESCRIPTION OF WASTE SHIPPED	);		8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #				
N	a-una contract for the states of the				1.810							
	b.		Call of the									
E	C	1.11.1.1										
R	d.											
	12. COMMENTS OR SPECIAL INSTRUCTIONS:					13. WASTE F	ROFILE N	O.				
A												
			ENCY OR SPIL	L, CO	NTACT							
Т	NAME	PHONE NO				24-HOUR	EMERGE	NCY NO.				
0	15. GENERATOR'S CERTIFICATION: 1 shipping name and are classified, packed, marked, and international and national government regulations, inc	labeled, and are in a	Il respects in proper co	ndition f	or transport	by highway ac	cording to a	pplicable				
R	PRINTED/TYPED NAME		SIGNATURE DATE									
Т	16. TRANSPORTER (1)		17.	T	RANSPO	ORTER (2)	1.1					
R A	NAME:		NAME:									
N S	TEXAS I.D. NO.		TEXAS I.D. NO.									
Р	IN CASE OF EMERGENCY CONTACT:		IN CASE OF EMERGENCY CONTACT:									
O R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment o	f receipt of material	EMERGENCY PE		(2): Ackn	owledgment of	receipt of r	naterial				
T E	PRINTED/TYPED NAME		PRINTED/TYPEI									
R S		1	19 C					1.1.1.1				
_	SIGNATURE	DATE	SIGNATURE		1.1.1.	-	DATE					
DF	Lea Land, LLC		e Marker 64, U. Miles East of C		5 C	30, PHONE		37-4048				
I A S C P I	PERMIT NO. WM-01-035 - New Mexi	20. COMMENTS										
O L S I A T	21. DISPOSAL FACILITY'S CERTIFIC/ facility is authorized and permitted to receive such w	ATION: I Hereby astes.	certify that the above o	lescribed	wastes we	re delivered to	this facility	, that the				
LY	AUTHORIZED SIGNATURE	True St.	CELL NO.	101	DAI	Е		IME				
GENER	ATOR: COPIES 1 & 6	DISPOSAL SIT	E: COPIES 2 & 3	-	-	TRANS	PORTERS	COPIES 4 & 5				

Appendix E

Initial and Final C-141

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

SEP 07 2016

ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

State of New Mexico

**Energy Minerals and Natural Resources** 

## **Release Notification and Corrective Action**

		OPERATOR	🔀 Initial Report	Final Report					
Name of Company: XTO Energy, Inc	5380	Contact: Dudley McMinn							
Address: 500 W. Illinois Ave., Suite	100, Midland, TX 70701	Telephone No.: (432) 682-							
Facility Name: Nash Draw Unit Batto		Facility Type: Tank Batte	ery (Equipment Removed)						
Surface Owner: Federal	Mineral Owne	r: Federal	API No. 30-015-28271	]					
LOCATION OF RELEASE									

									Country Pilder
	Unit Letter	Section	Township	Range	Feet from the	North/South Linc	Feet from the	East/West Line	County: Eddy
	(mu Louer	accuon	Townsmip	mange				-	•
	េរ	14	23S	29E	1750	North	890	Easi	
	n n	1 17	200	1 290	1130	110101			
				1					
. 1		1							

Latitude 32.307778 Longitude -103.949444

NATURE OF RELEASE		
Type of Release: Crude Oil	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Spills	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 07-20-2016
Was Immediate Notice Given?	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impucting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Hydrocarbons in soil due to historic use of tank battery reported in soil samples by laboratory following removal of tanks and equipment. Will remediate to OCD and BLM requirements.		
Describe Area Affected and Cleanup Action Taken.* Affected soil to be excavated, treated onsite treatment or disposed offsite	at OCD approved facility. Refer to	attached analytics) data summary.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other		
federal, state, or local laws and/or regulations.	OIL CONSER	IVATION DIVISION
Signature: Signature:		1/2
Printed Name: Luke Williams	Approved by Environmental Specia	alist: 110/0
Title: EH&S Coordinator	Approval Date: 0816	Expiration Date: NA
E-mail Address: Luke_Williams@xtoenergy.com	Conditions of Approval: Remediation per O.C.D.	
Date: 09-07-2016 Phone: (432) 683-8873	SUBMIT REMEDIATION	PROPOSAL NO
* Attach Additional Sheets If Necessary	LATER THAN: 10/011	2KP-3815

NOTE: Although no Final C-141 Form was submitted in this package, the RP-3875 is closed.

Bradford Billings 11/19/2019

## Patterson, Heather, EMNRD

From:	Mark Larson <mark@laenvironmental.com></mark@laenvironmental.com>
Sent:	Wednesday, September 07, 2016 4:54 PM
То:	Patterson, Heather, EMNRD
Cc:	McMinn, Dudley; Williams, Luke
Subject:	Re: Initial C-141s for XTO Energy, Inc., Nash Draw Unit Tank Batteries (8), Eddy County, New Mexico
Attachments:	Initial C-141, XTO Energy, Inc., Nash Draw unit Battery 1 & 6, September 7, 2016.pdf; Initial C-141, XTO Energy, Inc., Nash Draw Unit Battery 10, September 7, 2016.pdf; Initial C-141, XTO Energy, Inc., Nash Draw Unit Battery 9, September 7, 2016.pdf; Initial C-141, XTO Energy, Inc., Nash Draw Unit Battery 15 & 33, September 7, 2016.pdf; Initial C-141, XTO Energy, Inc., Nash Draw Unit Battery 24, September 7, 2016.pdf; Initial C-141, XTO Energy, Inc., Nash Draw Unit Battery 36, September 7, 2016.pdf; Initial C-141, XTO Energy, Inc., Nash Draw Unit Battery 19 & 34, September 7, 2016.pdf; Initial C-141, XTO Energy, Inc., Nash Draw Unit Battery 19 & 34, September 7, 2016.pdf; Initial C-141, XTO Energy, Inc., Nash Draw Unit Battery 38, September 7, 2016.pdf; Initial C-141, XTO

## Dear Heather,

í

The attached C-141s and supporting documentation are submitted on behalf of XTO Energy, Inc., for eight (8) tank batteries located in the Nash Draw Unit, Eddy County, New Mexico. Please contact Dudley McMinn with XTO Energy, Inc. at (432) 682-8873 or me if you have questions. Respectfully,

Mark J. Larson

From: Mark Larson Sent: Wednesday, September 07, 2016 10:59 AM To: 'heather.patterson@state.nm.us' Cc: 'McMinn, Dudley'; 'Luke\_Williams@xtoenergy.com' Subject: Re: Meeting Confirmation

Dear Heather,

This message is to confirm our meeting at your office on September 15, 2016 at 10:00 AM (Mountain Time). Please contact me if you have questions. See you then! Respectfully,

Mark J. Larson, P.G. President/Sr. Project Manager 507 N. Marienfeld St., Suite 205 Midland, Texas 79701 (432) 687-0901 ( O ) (432) 556-8656 ( C )

ssociates, Inc.

www.LAEnvironmental.com

í ,

"Serving the Permian Basin Since 2000"