2RP-3872 REMEDIATION REPORT Nash Draw Tank Battery #15 & #33

Eddy County, New Mexico

LAI Project No. 16-0108-04

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

AND PROFESSIONAL MINISTRALIA

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 Summary
Table 2 Confirmation Soil Sample Analytical Data Summary

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

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 #15 & #33 tank battery (Site). The Site is located in Unit D (NW/4, NW/4), Section 13, Township 23 South, Range 29 East in Eddy County, New Mexico. The geodetic position is North 32° 18′ 43.87209″ and West 103° 56′ 43.61176″. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

On June 21, 2016, LAI personnel used a Terraprobe[®] direct-push rig to collect soil samples at five (5) locations (DP-04-01 through DP-04-05). Soil samples were collected between ground surface and approximately four (4) feet below ground surface (bgs). A background sample was not collected due to close proximity to the playa lake (Salt Lake). The laboratory analysis and initial C-141 were submitted to OCD which assigned remediation permit number 2RP-3872, on September 8, 2016.

On November 7, 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. 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);
- The Site is located on an island that is surrounded on all sides by a playa lake (Salt Lake);
 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 1.5 miles south 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

2RP-3872 Remediation Report Nash Draw Tank Battery #15 & #33 March 23, 2017

Distance to Surface Water Body	<200 Horizontal Feet	20	

The following RRAL apply to the release for ranking score: 30

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

2.0 REMEDIATION

Soil remediation was performed between November 16, 2016 and December 15, 2016, according to the plan approved by OCD District 2 on November 10, 2016. SDR, under supervision from LAI, excavated soil from the area of DP-04-01 measuring about 20 x 25 feet to about 2 feet bgs. SDR excavated soil from the area of DP-04-02 measuring about 40 x 45 feet to about 4 feet bgs. Soil samples were collected from the excavation sidewalls and analyzed by Permian Basin Environmental Lab (PBEL) for benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA SW-846 Method 8020B and TPH by EPA SW-846 Method 8015 including GRO (C6 - C12), DRO (>C12 - C28) and ORO (>C28 - C35). Additional soil was excavated from the south side of the excavation and the laboratory reported benzene, BTEX and TPH in the final confirmation samples below the RRAL of 10 mg/Kg, 50 mg/Kg) and 100 mg/Kg, respectively. A 20 mil thickness liner was placed in the bottom of the excavation at DP-04-02. The excavation above the liner was filled with caliche. SDR excavated soil from the area of DP-04-03 measuring about 20 x 40 feet to about 2 feet bgs. Soil was excavated at DP-04-04 from an area measuring approximately 15 x 20 feet to approximately 4 feet bgs. PBEL analyzed soil samples from the sidewalls BTEX and TPH using the methods described above. Additional soil was excavated from the west side of the excavation and the laboratory reported benzene, BTEX and TPH in the final confirmation samples below the RRAL of 10 mg/Kg, 50 mg/Kg) and 100 mg/Kg, respectively. A 20 mil thickness liner was placed in the bottom of the excavation at DP-04-04. The excavation above the liner was filled with caliche. SDR excavated soil from the area of DP-04-05 measuring about 10 x 10 feet to about 1 foot bgs. The excavations were filled with caliche.

Approximately 613 cubic yards of contaminated soil was disposed at Lea Land Landfill, LLC. Table 2 presents the confirmation soil sample analytical data summary. Figure 3 presents the remediation areas. Appendix B presents the confirmation sample laboratory reports. 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-3872.

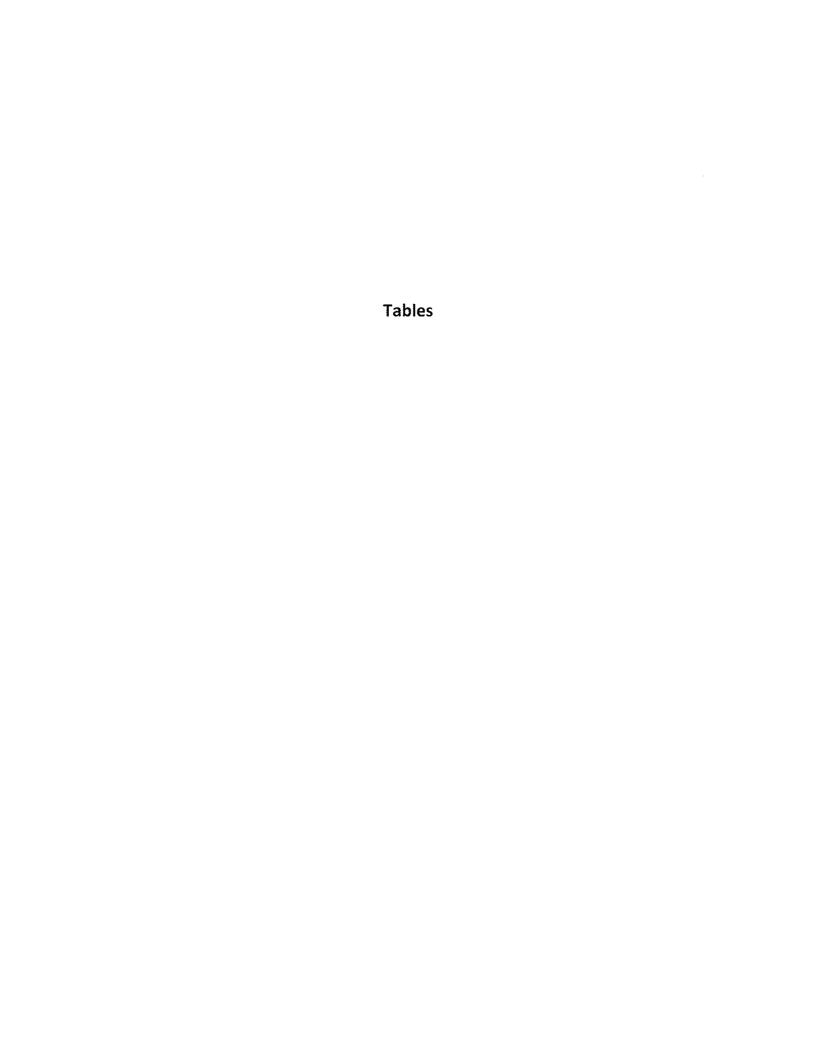


Table 1

2RP-3872

Investigation Soil Sample Analytical Data Summary

XTO Energy, Inc., Nash Draw Tank Battery 15 and 33

Unit D (NW/4, NW/4), Section 13, Township 23 South, Range 29 East Eddy County, New Mexico

TPH (mg/Kg)	100	807	892.4	<29.1	<29.4	000.04	18,300	22,700	21,360	16,000	8,506	<28.7	2,082.80	59.4	23,569	000'9	7,340	5,101	252.4
>C28 - C35 (mg/Kg)	- W	<139	92.4	<29.1	<29.4	CCC	1,780	2,270	2,020	1,650	1,040	<28.7	216	<28.7	3,180	916	932	584	52.3
>C12 - C28 (mg/Kg)		650	635	<29.1	<29.4		14,400	17,100	16,400	11,900	7,160	<28.7	1,770	30.5	20,200	5,080	6,110	4,140	200
C6 - C12 (mg/Kg)		157	165	<29.1	<29.4		7,120	3,250	2,940	2,460	306	<28.7	8.96	28.9	189	<137	303	287	<26.6
Status		Excavated	Excavated	In-Situ	In-Situ		Excavated	Excavated	Excavated	Excavated	Excavated	Excavated	In-Situ	In-Situ	Excavated	Excavated	Excavated	Excavated	Excavated
Collection Date		6/21/2016	6/21/2016	6/21/2016	6/21/2016		6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016
Depth (Feet)		0 - 1	1-2	2 - 3	3 - 4		0-1	1-2	2 - 3	3 - 4	0 - 1	1-2	2-3	3 - 4	0-1	1-2	2 - 3	3 - 4	0-1
Location	OCD RRAL:	DP-04-01					DP-04-02				DP-04-03				DP-04-04				DP-04-05

2RP-3872 Table 1

Unit D (NW/4, NW/4), Section 13, Township 23 South, Range 29 East XTO Energy, Inc., Nash Draw Tank Battery 15 and 33 Investigation Soil Sample Analytical Data Summary

Eddy County, New Mexico

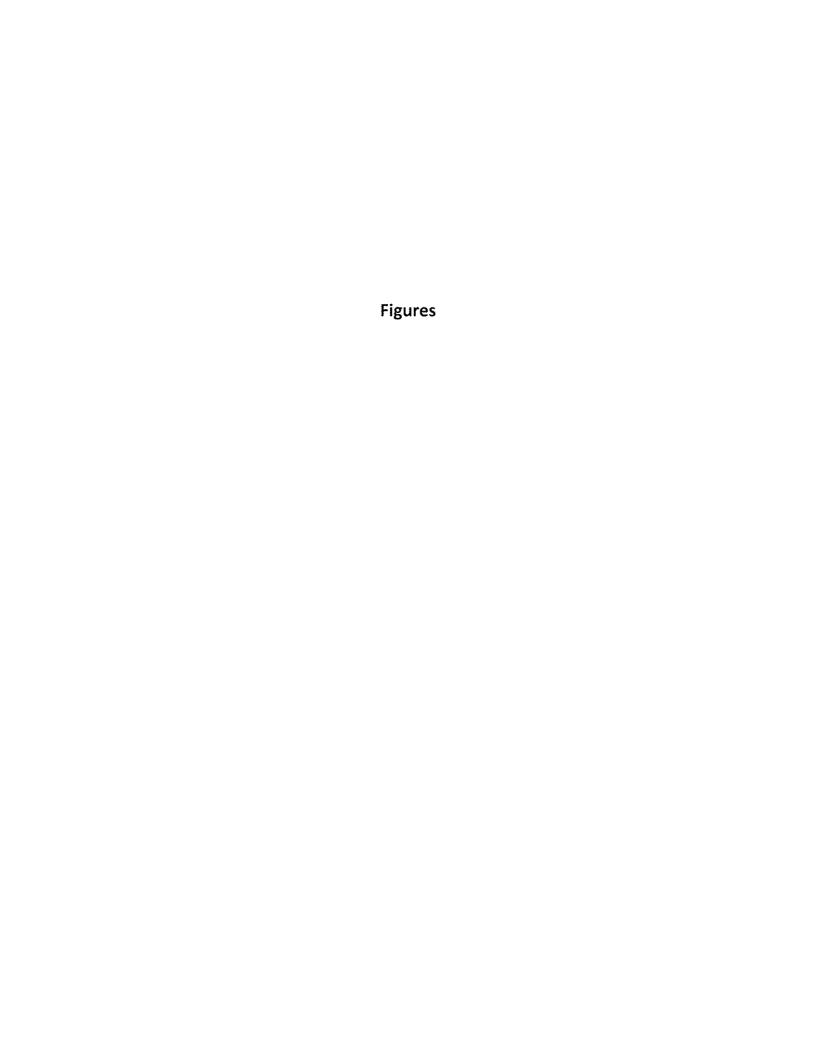
Location	Depth	Collection	Status	C6 - C12	>C12 - C28	>C28 - C35	TPH
	(Feet)	Date		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
OCD RRAL:							100
	1 - 2	6/21/2016	In-Situ	L. Table	7.50	1	ĵ
	2 - 3	6/21/2016	In-Situ	Ē	Ē	1	1
	3 - 4	6/21/2016	In-Situ	I	Ī	I	Î

Notes: laboratory analysis performed by Permian Basin Environmental Lab, Midland, Texas, by EPA SW-846 method 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: analysis pending

Unit D (NW/4, NW/4), Section 13, Township 23 South, Range 29 East XTO Energy, Inc., Nash Draw Tank Battery 15 and 33 Confirmation Soil Sample Analytical Data Summary Eddy County, New Mexico 2RP-3872 Table 2

Location	Sidewall	Depth	Collection	Status	Benzene	BTEX	C6 - C12	>C12 - C28	>C28 - C35	TPH
		(Feet)	Date		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
OCD RRAL:					10	20				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	Ī	-	<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	1	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

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



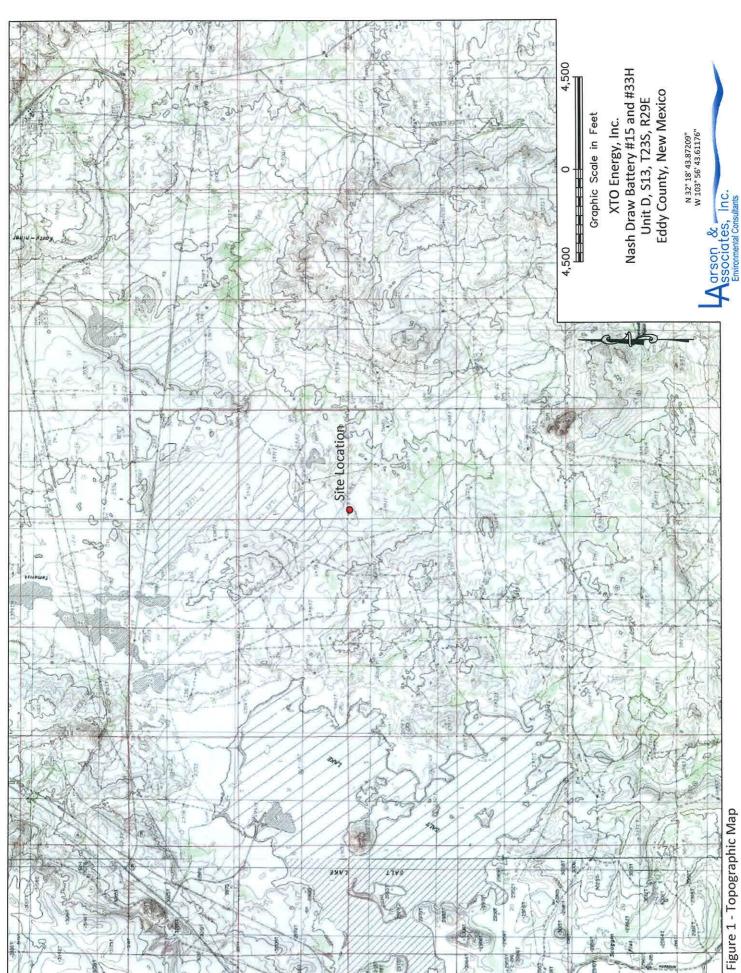




Figure 2 - Aerial Map

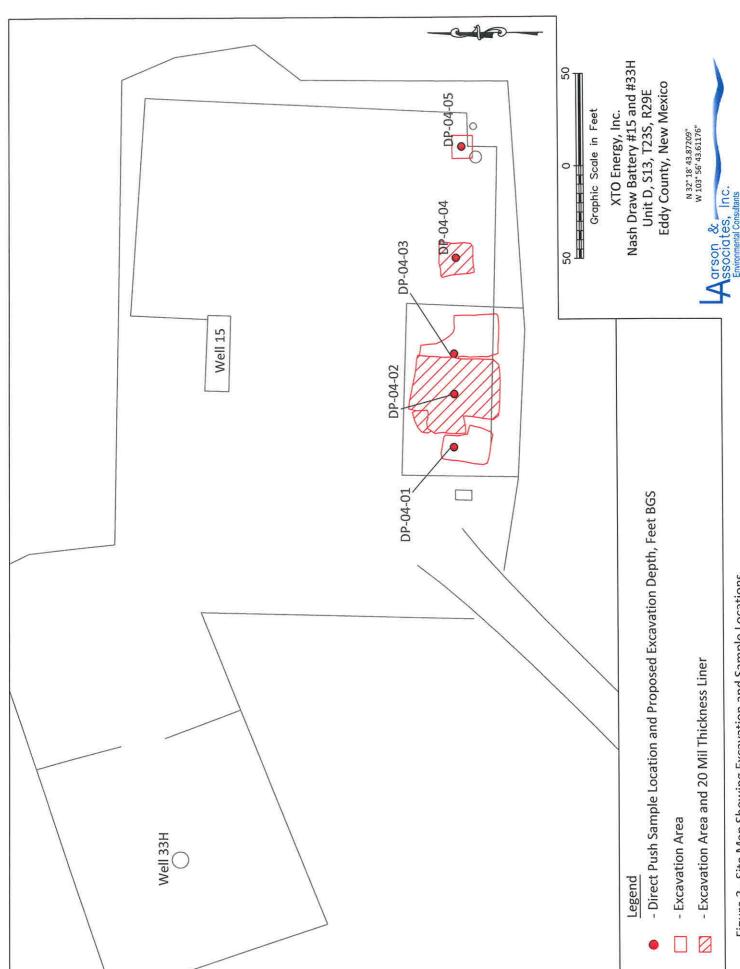


Figure 3 - Site Map Showing Excavation and Sample Locations

Appendix A Remediation Plan Approval

From:

Patterson, Heather, EMNRD [Heather.Patterson@state.nm.us]

Sent:

Thursday, November 10, 2016 2:09 PM

To:

Mark Larson; Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD;

hprice@blm.gov

Cc:

McMinn, Dudley; Williams, Luke

Subject:

RE: 2RP-3872, Remediation Plan, Nash Draw Tank Battery #15 & #33,

November 2, 2016

RE: XTO * Nash Draw Battery #14 and #33 * 30-015-28049 * 2RP-3872

Mark,

Your proposed remediation for the above listed site is approved.

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: Monday, November 07, 2016 6:34 PM

To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; hprice@blm.gov

Cc: McMinn, Dudley; Williams, Luke

Subject: Re: 2RP-3872, Remediation Plan, Nash Draw Tank Battery #15 & #33, November 2, 2016

All,

Please find attached remediation plan for the Nash Draw Tank Battery #15 & #33. The plan was revised to include BTEX in excavation samples, where applicable. Remediation will commence on Tuesday, November 8, 2016, per our verbal discussion and approval yesterday. Please contact Dudley McMinn with XTO at (432) 682-8873 or me if you have questions. Respectfully,

Mark J. Larson, P.G.
President/Sr. Project Manager
507 N. Marienfeld St., Suite 205
Midland, Texas 79701
Office – 432-687-0901
Cell – 432-556-8656
Fax – 432-687-0456
mark@laenvironmental.com

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 15 & 33 Project Number: 16-0108-04 Location: New Mexico

Lab Order Number: 6K17004



NELAP/TCEQ # T104704156-13-3

Report Date: 11/18/16

Project: Nash Draw 15 & 33

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-04 Project Manager: Mark Larson Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-04-02-N2	6K17004-01	Soil	11/15/16 15:35	11-17-2016 08:45
DP-04-02-E2	6K17004-02	Soil	11/15/16 15:45	11-17-2016 08:45
DP-04-02-W2	6K17004-03	Soil	11/15/16 15:37	11-17-2016 08:45
DP-04-02-S2	6K17004-04	Soil	11/15/16 15:40	11-17-2016 08:45
DP-04-04-N2	6K17004-05	Soil	11/15/16 15:15	11-17-2016 08:45
DP-04-04-E2	6K17004-06	Soil	11/15/16 15:20	11-17-2016 08:45
DP-04-04-W2	6K ł 7004-07	Soil	11/15/16 15:25	11-17-2016 08:45
DP-04-04-S2	6K17004-08	Soil	11/15/16 15:30	11-17-2016 08:45

P.O. Box 50685

Midland TX, 79710

Project: Nash Draw 15 & 33

Project Number: 16-0108-04

Project Manager: Mark Larson

Fax: (432) 687-0456

DP-04-02-N2 6K17004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dílution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	invironmen	tal Lab, I	L .P.				
Organics by GC		·····							
Benzene	ND	0.00122	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Toluene	ND	0.00244	mg/kg dry	ì	P6K1701	11/17/16	11/17/16	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P6K 1701	11/17/16	11/17/16	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	l	P6K1701	11/17/16	11/17/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		82.8 %	75-1	25	P6K1701	11/17/16	11/17/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		75.9 %	75-I	25	P6K1701	11/17/16	11/17/16	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ds					,		*************
% Moisture	18.0	0.1	%	l	P6K1801	11/18/16	11/18/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M							
C6-C12	ND	30.5	mg/kg dry	1	P6K1805	11/17/16	11/17/16	TPH 8015M	
>C12-C28	ND	30.5	mg/kg dry	1	P6K1805	11/17/16	11/17/16	TPH 8015M	
>C28-C35	ND	30.5	mg/kg dry	1	P6K1805	11/17/16	11/17/16	TPH 8015M	
Surrogate: 1-Chlorooctane		114%	70-1	30	P6K1805	11/17/16	11/17/16	TPH 8015M	
Surrogate: o-Terphenyl		114%	70-1	30	P6K1805	11/17/16	11/17/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.5	mg∕kg dry	ı	[CALC]	11/17/16	11/17/16	calc	

Projec

Project: Nash Draw 15 & 33

Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-04

Project Manager: Mark Larson

DP-04-02-E2 6K17004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	nvironmen	tal Lab, l	L .P .				
Organics by GC									
Benzene	ND	0.00116	mg∕kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Toluene	ND	0.00233	mg∕kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	I	P6K1701	11/17/16	11/17/16	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	l	P6K.1701	11/17/16	11/17/16	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		73.2 %	75-1	25	P6K1701	11/17/16	11/17/16	EPA 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		80.4 %	75-1	25	P6K1701	11/17/16	11/17/16	EPA 8021B	
General Chemistry Parameters by EPA / Sta	ndard Metho	ds		· · · · · · · · · · · · · · · · · · ·					
% Moisture	14.0	0.1	%	1	P6K1801	11/18/16	11/18/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by E	PA Method 8	015M	17						
C6-C12	ND	29.1	mg/kg dry	1	P6K1805	11/17/16	11/17/16	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P6K1805	11/17/16	11/17/16	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P6K1805	11/17/16	11/17/16	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-1	30	P6K1805	11/17/16	11/17/16	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-1	30	P6K1805	11/17/16	11/17/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	11/17/16	11/17/16	calc	

ates, Inc.

P.O. Box 50685 Midland TX, 79710 Project: Nash Draw 15 & 33

Project Number: 16-0108-04

Project Manager: Mark Larson

Fax: (432) 687-0456

DP-04-02-W2 6K17004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	invironment	al Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00116	mg/kg dry	l	P6K1701	11/17/16	11/17/16	EPA 8021B	
Toluene	ND	0.00233	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		71.5 %	75-12	5	P6K1701	11/17/16	11/17/16	EPA 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		80.2 %	75-12	5	P6K1701	11/17/16	11/17/16	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ds				·······		4	
% Moisture	14.0	0.1	%	1	P6K1801	11/18/16	11/18/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M							
C6-C12	ND	29.1	mg/kg dry)	P6K1805	11/17/16	11/17/16	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	ì	P6K1805	11/17/16	11/17/16	TPH 8015M	
>C28-C35	ND	29.1	mg⁄kg dry	1	P6K1805	11/17/16	11/17/16	TPH 8015M	
Surrogate: 1-Chlorooctane		93.6 %	70-13	0	P6K1805	11/17/16	11/17/16	TPH 8015M	
Surrogate: o-Terphenyl		95.0 %	70-13	0	P6K1805	11/17/16	11/17/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	11/17/16	11/17/16	cale	

P.O. Box 50685

Midland TX, 79710

Project: Nash Draw 15 & 33

Project Number: 16-0108-04

Project Manager: Mark Larson

Fax: (432) 687-0456

DP-04-02-S2 6K17004-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Cnvironmer	ıtal Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00116	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Toluene	ND	0.00233	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Ethylbenzene	ND	0.00116	mg∕kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		73.3 %	75-1	25	P6K1701	11/17/16	11/17/16	ЕРА 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		78.3 %	75-1	25	P6K1701	11/17/16	11/17/16	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Metho	ds							
% Moisture	14.0	0.1	%	1	P6K1801	11/18/16	11/18/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 8	015M							
C6-C12	ND	29.1	mg/kg dry	1	P6K1805	11/17/16	11/18/16	TPH 8015M	
>C12-C28	143	29.1	mg/kg dry	1	P6K1805	11/17/16	11/18/16	TPH 8015M	
>C28-C35	89.2	29.1	mg/kg dry	1	P6K1805	11/17/16	11/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		110%	70-1	30	P6K1805	11/17/16	11/18/16	TPH 8015M	
Surrogate: o-Terphenyl		112%	70-1	30	P6K1805	11/17/16	11/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	232	29.1	mg/kg dry	1	(CALC)	11/17/16	11/18/16	calc	

Project: Nash Draw 15 & 33

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-04

Fax: (432) 687-0456

Project Manager: Mark Larson

DP-04-04-N2 6K17004-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Invironment	al Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00118	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Toluene	ND	0.00235	mg/kg dry	ī	P6K1701	11/17/16	11/17/16	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		80.6 %	75-12	5	P6K1701	11/17/16	11/17/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		73.5 %	75-12	5	P6K1701	11/17/16	11/17/16	EPA 8021B	S-GC
General Chemistry Parameters by EPA	Standard Metho	ds							
% Moisture	15.0	0.1	%	1	P6K1801	11/18/16	11/18/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M							
C6-C12	ND	29.4	mg/kg dry	1	P6K1805	11/17/16	11/18/16	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P6K1805	11/17/16	11/18/16	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P6K1805	11/17/16	11/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		115%	70-13	0	P6K1805	11/17/16	11/18/16	TPH 8015M	
Surrogate: o-Terphenyl		115%	70-13	0	P6K1805	11/17/16	11/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	11/17/16	11/18/16	calc	

P.O. Box 50685 Midland TX, 79710 Project: Nash Draw 15 & 33

Project Number: 16-0108-04 Project Manager: Mark Larson Fax: (432) 687-0456

DP-04-04-E2 6K17004-06 (Soil)

			-						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Invironment	al Lab, l	L .թ.				
Organics by GC									
Benzene	ND	0.00114	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Toluene	ND	0.00227	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg∕kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		73.0 %	75-12	5	P6K1701	11/17/16	11/17/16	EPA 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		75.9 %	75-12	5	P6K1701	11/17/16	11/17/16	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ds							
% Moisture	12.0	0.1	%	1	P6K1801	11/18/16	11/18/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M							
C6-C12	ND	28.4	mg/kg dry	1	P6K1805	11/17/16	11/18/16	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P6K1805	11/17/16	11/18/16	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P6K1805	11/17/16	11/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-13	0	P6K1805	11/17/16	11/18/16	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-13	0	P6K1805	11/17/16	11/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	11/17/16	11/18/16	calc	

Project

Project: Nash Draw 15 & 33

Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-04

Project Manager: Mark Larson

DP-04-04-W2 6K17004-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmen	ıtal Lab, l	P.				
Organics by GC					, , , , , , , , , , , , , , , , , , , 				
Benzene	ND	0.00116	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Toluene	ND	0.00233	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P6K 1701	11/17/16	11/17/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		75.3 %	75-1	25	P6K1701	11/17/16	11/17/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		75.4 %	75-1	25	P6K1701	11/17/16	11/17/16	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Method	ds							
% Moisture	14.0	0.1	%	1	P6K1801	11/18/16	11/18/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 8	015M	h		•	***************************************		w	
C6-C12	ND	29.1	mg/kg dry	1	P6K1805	11/17/16	11/18/16	TPH 8015M	
>C12-C28	105	29.1	mg/kg dry	i	P6K1805	11/17/16	11/18/16	TPH 8015M	
>C28-C35	46.9	29.1	mg/kg dry	1	P6K1805	11/17/16	11/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		97.6 %	70-1	30	P6K1805	11/17/16	11/18/16	TPH 8015M	
Surrogate: o-Terphenyl		96.5 %	70-1	30	P6K1805	11/17/16	11/18/16	TPH 8015M	
Total Petroleum Hydrocarbon	152	29.1	mg/kg dry	1	[CALC]	11/17/16	11/18/16	calc	

Project: Nash Draw 15 & 33

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-04

Project Manager: Mark Larson

Fax: (432) 687-0456

DP-04-04-S2 6K17004-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Invironment	al Lab, l	L.P.				
Organics by GC								<u> </u>	
Benzene	ND	0.00114	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Toluene	ND	0.00227	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P6K1701	11/17/16	11/17/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		77.4 %	75-12	5	P6K1701	11/17/16	11/17/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		72.7 %	75-12	5	P6K1701	11/17/16	11/17/16	EPA 8021B	S-GC
General Chemistry Parameters by EPA	Standard Metho	ds							
% Moisture	12.0	0.1	%	1	P6K1801	11/18/16	11/18/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M							·····
C6-C12	ND	28.4	mg/kg dry	1	P6K1805	11/17/16	11/18/16	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P6K1805	11/17/16	11/18/16	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P6K1805	11/17/16	11/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		106%	70-13	0	P6K1805	11/17/16	11/18/16	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-13	0	P6K1805	11/17/16	11/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	11/17/16	11/18/16	calc	

Project: Nash Draw 15 & 33

Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-04

Project Manager: Mark Larson

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
		, and		Love	NC3UR	/01CEC	2111113	*****	A331111	110103
Batch P6K1701 - General Preparation	on (GC)		 							
Blank (P6K1701-BLK1)				Prepared &	. Analyzed	: 11/17/16				.,,
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	ñ							
Ethylbenzene	ND	0.00100	11							
Xylene (p/m)	ND	0.00200	n							
Xylene (o)	ND	0.00100	ii .							
Surrogate: 1,4-Difluorobenzene	0.0619	d	и	0.0600	***************************************	103	80-120			
Surrogate: 4-Bromofluorobenzene	0.0636		"	0.0600		106	80-120			
LCS (P6K1701-BS1)				Prepared &	. Analyzed	: 11/17/16				
Benzene	0.0893	0.00100	mg/kg wet	0.100		89.3	80-120			
Toluene	0.0985	0.00100	ii.	0.100		98.5	80-120			
Ethylbenzene	0.110	0.00100	п	0.100		110	80-120			
Xylene (p/m)	0.196	0.00200	п	0.200		98.1	80-120			
Xylene (o)	0.0960	0.00100	п	0.100		96.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.0632		и	0.0600		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.0606		"	0.0600		101	80-120			
LCS Dup (P6K1701-BSD1)				Prepared &	Analyzed	: 11/17/16				
Benzene	0.0853	0.00100	mg/kg wet	0.100		85.3	80-120	4.52	20	,,
Toluene	0.0910	0.00100	ц	0.100		91.0	80-120	7.90	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120	3.20	20	
Xylenc (p/m)	0.189	0.00200	·	0.200		94.3	80-120	3.94	20	
Xylene (o)	0.0940	0.00100	n	0.100		94.0	80-120	2.08	20	
Surrogate: 1,4-Difluorobenzene	0,0660		и	0.0600		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.0704		"	0.0600		117	80-120			
Matrix Spike (P6K1701-MS1)	Sou	rce: 6K1600	9-01	Prepared &	Analyzed	: 11/17/16				
Benzenc	0.0661	0.00102	mg/kg dry	0.102	ND	64.7	80-120			QM-0
Toluenc	0.0426	0.00204	tı.	0.102	ND	41.8	80-120			QM-0
Ethylbenzene	0.0284	0.00102	11	0.102	ND	27.9	80-120			QM-0
Xylene (p/m)	0.0447	0.00204	н	0.204	ND	21.9	80-120			QM-0
Xylene (o)	0.0240	0.00102	н	0.102	ND	23.5	80-120			QM-0
Surrogate: 4-Bromofluorobenzene	0.0631		nt	0.0612		103	75-125			
Surrogate: 1.4-Difluorobenzene	0.0640		"	0.0612		104	75-125			

P.O. Box 50685

Project Number: 16-0108-04 Project Manager: Mark Larson Midland TX, 79710

Fax: (432) 687-0456

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

Project: Nash Draw 15 & 33

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limít	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Ratch P6K1701 - General Preparation (GC)										

Matrix Spike Dup (P6K1701-MSD1)	Sou	rce: 6K16009	9-01	Prepared &	Analyzed:					
Benzene	0.0874	0.00102	mg/kg dry	0.102	ND	85.7	80-120	27.9	20	QM-05
Toluene	0.0660	0.00204	11	0.102	ND	64.7	80-120	43.0	20	QM-05
Ethylbenzene	0.0490	0.00102	ħ	0.102	ND	48.1	80-120	53.2	20	QM-05
Xylene (p/m)	0.0788	0.00204	н	0.204	ND	38.6	80-120	55.2	20	QM-05
Xylene (o)	0.0419	0.00102	ч	0.102	ND	41.1	80-120	54.5	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.0669		н	0.0612		109	75-125			
Surrogate: 1,4-Difluorobenzene	0.0646		"	0.0612		106	75-125			

Larson & Associates, Inc. Project: Nash Draw 15 & 33

P.O. Box 50685 Project Number: 16-0108-04
Midland TX, 79710 Project Manager: Mark Larson

Fax: (432) 687-0456

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6K1801 - *** DEFAULT PREP ***										
Blank (P6K1801-BLK1)				Prepared &	k Analyzed:	11/18/16				
% Moisture	ND	0.1	%							
Duplicate (P6K1801-DUP1)	Sour	rce: 6K17004-	04	Prepared &	k Analyzed:	11/18/16				
% Moisture	14.0	0.1	%		14.0			0.00	20	

Larson & Associates, Inc. Project: Nash Draw 15 & 33

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-04 Project Manager: Mark Larson Fax: (432) 687-0456

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 P6K1805 - TX 1005	······································									
Blank (P6K1805-BLK1)				Prepared &	Analyzed:	11/17/16		.,		
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	н							
>C28-C35	ND	25.0	н							
Surrogate: 1-Chlorooctane	115		n	100		115	70-130			
Surrogate: o-Terphenyl	57.8		a	50.0		116	70-130			
LCS (P6K1805-BS1)				Prepared &	k Analyzed:	11/17/16				
C6-C12	988	25.0	mg/kg wet	1000		98.8	75-125			
>C12-C28	974	25.0	O	1000		97.4	75-125			
Surrogate: 1-Chlorooctane	118		#	100		118	70-130			
Surrogate: o-Terphenyl	54.0		u	50.0		108	70-130			
LCS Dup (P6K1805-BSD1)				Prepared &	د Analyzed:	11/17/16				
C6-C12	1030	25.0	mg/kg wet	1000		103	75-125	4,27	20	
>C12-C28	981	25.0	н	1000		98.1	75-125	0.744	20	
Surrogate: 1-Chlorooctane	117		и	100		117	70-130			
Surrogate: o-Terphenyl	62.7		"	50.0		125	70-130			

Larson & Associates, Inc.

Project: Nash Draw 15 & 33

Fax: (432) 687-0456

P.O. Box 50685 Project Number: 16-0108-04 Midland TX, 79710 Project Manager: Mark Larson

Notes and Definitions

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

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	A Company of the St.		
Report Approved By:		Date:	11/18/2016

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.

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.

			1	1:	days.	,		·-····································		 -			A	<u>رحہ</u>	<u>S</u>		كبلا	<u>7</u>	76,	Υ	, 	·	· · · · · · · · · · · · · · · · · · ·					
	RELINQUISHED BY:(Signature)	RELINQUISHED BY Congnature		RÈLINQUISHED BYY(Signature)	TOTAL		,						- 52	1 - 62	- 62	2N-140-13-30	-52	- 602	- E2	CV-C7-02-V2	Field Sample I.D.	i ~ J ⊃ NI		Data Reported to:	SSOCIATES, Inc. Environmental Consultants	A arson &	-	
	ignature)	ngnature)	7	ignature)																	Lab#		S=SOIL W=WATER		es, Inc.	_ &		
	ニラ	, DAI	m/ZIII	TĄC ,									3:30	2,25	3:20	3;15	3:40	3;37	3,45	1115/16 3:35	Date Time		P=PAINT SL=SLUDGE			A STATE OF THE STA		2
	DATE/IME SALES	E) I IME	Sh: 8 91	DATE/TIME									<u>u</u>	•	P	:	0			×	e Matrix		T11					
***************************************	REC	Z T C		REC					<u> </u>											4>	# of C	ontainers			_	507 N. Marienfeld, Ste.		-
	ËVE	Į į		EIVE									ļ		<u> </u>	+	├-		-		HCI		P		43	= Z		
	RECEIVED BY: (Signature)	RECEIVED BY: (Signature)		RECEIVED BY: (Signature)																	HNO ₃		PRESERVATION		432-687-0901	arier		
	(Sign	(Sign)	(Sign									<u> </u>							X	H₂SO, ICE	□ NaOH □	RVA1		7-09	7, feld (
	ature)	aure		ature)							<u> </u>				-	-	 			1	ļ	ESERVED	- j		2 2	Ste.		
				_								-		_						X	0,81	7 .				200		
				-						<u></u>			<u> </u>			:				M	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V. S.Es						i
				ŀ				<u> </u>				-	-	-	-	-	-		-	7	100 A			≥F	Ř	PO#		
	0 ^) <u> </u>	<u> </u>																		11 1.001	1/2/		LAI PROJECT	PROJECT LOCATION OR NAME:		-	
	OTHER O	1 DAY KA	ORM.											-		:	-	 	 		100 CE			EG.	<u>[</u>		-	
	õ	J RN	P 2	280								-											10060	#: 16-	CATI	7116	_	
			į	ARCHIND TIME					ļ	ļ				_	_		_		-	 				6.0	8	l le		
				M					-	-			-	<u> </u>	-	+	-	-	-	1	11 × X × ·	\\ \\ \\\ \\ \\	<i>'</i>		S			
×		<u>2</u> ا	쮸 [- 2																			ROPE TO SERVICE	0108-01	MA.			
HAND	, CAR	IOTOL		20				ļ	-			-	-	-	-		-	ļ		-					- !!! -	Σ		
MHAND DELIVERED	CARRIER BILL#	CUSTODY SEALS	RECEIVING TEMP 5.8	LABORATORY LISE ONLY:						\vdash		ļ	-						 				12 to Co		Nash	LAB WORK ORDER #:		
VER	BL #	ALS	E GW	۲ : S																- 1	11 2 1 2	/ V / 105 / 7.A	/ W/	1 1	- 1	꽂		C C
8		٥	A.	S				ļ	-			ļ	-	ļ		-		-		-	100 m	tala Mos M		1 2	Draw	유		\Rightarrow
		SROK	5 0.	<				<u> </u>	-	-		 	+		-		+-		 	-	1000	SE L'AS TOS SANDER SAND		COLLECTOR)ER		Z
		EN :	井							-												AND THE ORY	CATALOR S	爿	5		·	0
		Z Z Z	THERM #																			No. No. O. No. O			3 f "		⊒5Ad⊏	CHAIN-OF-CUS
		ACT																					(A)	Simo	188		۱۱ 	
		NO																			FIELD NOTES			$\ \xi$			<u></u>	ST
		BROKEN WINTACT INOTUSED																-			TES			C INFAR	ř	1 1		0
		Ä																						3	Pa	ge 1	6 o	f 16

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 15 & 33 Project Number: 16-0108-04

Location: NM

Lab Order Number: 6K22003



NELAP/TCEQ # T104704156-13-3

Report Date: 11/23/16

Project: Nash Draw 15 & 33

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-04 Project Manager: Mark Larson Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory lD	Matrix	Date Sampled	Date Received
DP-04-02-S2	6K22003-01	Soil	11/21/16 15:15	11-22-2016 09:07
DP-04-04-W2	6K22003-02	Soil	11/21/16 15:25	11-22-2016 09:07

P.O. Box 50685 Midland TX, 79710 Project: Nash Draw 15 & 33

Project Number: 16-0108-04 Project Manager: Mark Larson Fax: (432) 687-0456

DP-04-02-S2 6K22003-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Invironmen	tal Lab,	L.P.				
General Chemistry Parameters by EPA	Standard Method	s							
% Moisture	12.0	0.1	%	1	P6K2301	11/23/16	11/23/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	15M							
C6-C12	ND	28.4	mg/kg dry	1	P6K2305	11/22/16	11/23/16	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P6K2305	11/22/16	11/23/16	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P6K2305	11/22/16	11/23/16	TPH 8015M	
Surrogate: 1-Chlorooctane		74.2 %	70-1.	30	P6K2305	11/22/16	11/23/16	TPH 8015M	
Surrogate: o-Terphenyl		91.5 %	70-1.	30	P6K2305	11/22/16	11/23/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	11/22/16	11/23/16	calc	

Project: Nash Draw 15 & 33

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-04

Project Manager: Mark Larson

Fax: (432) 687-0456

DP-04-04-W2 6K22003-02 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods										
% Moisture	13.0	0.1	%	1	P6K2301	11/23/16	11/23/16	% calculation		
Total Petroleum Hydrocarbons C6-C35 b	y EPA Method 80	15M								
C6-C12	ND	28.7	mg/kg dry	1	P6K2305	11/22/16	11/23/16	TPH 8015M		
>C12-C28	ND	28.7	mg/kg dry	1	P6K2305	11/22/16	11/23/16	TPH 8015M		
>C28-C35	ND	28.7	mg/kg dry	1	P6K2305	11/22/16	11/23/16	TPH 8015M		
Surrogate: 1-Chlorooctane		68.4 %	70-130		P6K2305	11/22/16	11/23/16	TPH 8015M	S-GC	
Surrogate: o-Terphenyl		83.0 %	70-130		P6K2305	11/22/16	11/23/16	TPH 8015M		
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	11/22/16	11/23/16	calc		

Larson & Associates, Inc.

Project: Nash Draw 15 & 33

P.O. Box 50685

Midland TX, 79710

Project Number: 16-0108-04

Fax: (432) 687-0456

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

Project Manager: Mark Larson

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6K2301 - *** DEFAULT PREP ***										
Blank (P6K2301-BLK1)					k Analyzed:	11/23/16				,
% Moisture	ND	0.1	%							
Duplicate (P6K2301-DUP1)	Sour	ce: 6K22001-	05	Prepared &	k Analyzed	11/23/16				
% Moisture	11.0	0.1	%		12.0			8.70	20	
Duplicate (P6K2301-DUP2)	Sour	·ce: 6K22006-	23	Prepared &	k Analyzed					
% Moisture	9.0	0.1	%		10.0			10.5	20	

Larson & Associates, Inc.

P.O. Box 50685 Midland TX, 79710 Project: Nash Draw 15 & 33

Fax: (432) 687-0456

Project Number: 16-0108-04 Project Manager: Mark Larson

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 P6K2305 - TX 1005										
Blank (P6K2305-BLK1)				Prepared:	11/22/16 A	nalyzed: 11	/23/16	.,		
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	и							
>C28-C35	ND	25.0	n n							
Surrogate: 1-Chlorooctane	88.9		*	100		88.9	70-130			
Surrogate: o-Terphenyl	53.9		u	50.0		108	70-130			
LCS (P6K2305-BS1)				Prepared:	11/22/16 A	nalyzed: 11	/23/16			
C6-C12	928	25.0	mg/kg wei	1000		92.8	75-125			
>C12-C28	1040	25.0	н	1000		104	75-125			
Surrogate: 1-Chlorooctane	116		n n	100		116	70-130			
Surrogate: o-Terphenyl	58.4		н	50.0		117	70-130			

Larson & Associates, Inc. Project: Nash Draw 15 & 33 Fax: (432) 687-0456

P.O. Box 50685 Project Number: 16-0108-04 Midland TX, 79710 Project Manager: Mark Larson

Notes and Definitions

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

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

Laboratory Control Spike

RPD Relative Percent Difference

Matrix Spike

Dup Duplicate

LCS

MS

Report Approved By:	The state of the s	Date:	11/23/2016	

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.

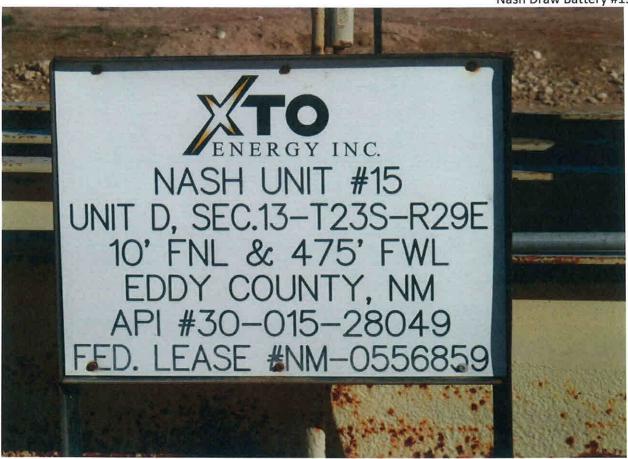
If you have received this material in error, please notify us immediately at 432-686-7235.

507 N. Marienfeld, Ste. 200	6, MEEY D
DATE: 11-22-16 PAGE PAGE OF 1 SE WORK ORDER #:	CHAIN-OF-CL

HAND DELIVERED						4	PBEL
CI CARRIER BILL#	OTHER (I)	gnature)	DATE/TIME 9 RECEIVED BY: (Signature)	1.6 d.9	DAT PO	(Signature)	RELINQUISHED BY
☐ BROKE	1 DAY D	grawe)	RECEIVED BY: (Signature)	DAIE/IME		:(Signature)	RELIZIQUISHED BY
RECEIVING TEMP: U . U THERM #:	NORMAL LI		אר יפי			Lawring	Juna III
LABORATORY USE ONLY:	TURN AROUND TIME	gnature)	RECEIVED BY: (Signature)	DATE/TIME	_	(Signature)	RELINQUISHED BY:(Signature)
							TOTAL
						*****	:
	-						
				7			V
				~ Ω	11-21-16 3:25		NP-04-04-W2
				5	11-21-16 3:15	2	DP-04-02-S2
STO STORY OF STORY STORY FIELD NOTES		80 AN		Matrix	Date Time	Lab#	Field Sample I.D.
		1/5]			MST
	84.7 85.70; (50 0 0 7.5)	() \	iners NaOH				TIME ZONE: Time zone/State:
Seni Seni OTA			0			A=AIR	Yes No
	TOPAL DOPAL	l	PRESERVATION			-65	TRRP report?
40	010	IA		>	< Larson	Mork	Data Reported to:
Nash Draw Battery	PROJECT LOCATION OR NAME: X 10		432-687-0901		न्हें '	tel Consultar	SSOCIQTES, INC. Environmental Consultants
DRK ORDER #			507 N. Marienteld, Ste. 200 Midland TX 79701	30		∞	A arson

Appendix C

Photographs



Location Sign



Location Viewing South Prior to Remediation, February 3, 2016



Location Viewing Southeast prior to Remediation, February 3, 2016



Excavation DP-04-01 Viewing South, November 16, 2016



Excavation DP-04-02 Viewing South, November 16, 2016



Excavation DP-04-02 Viewing South, November 16, 2016



Excavation DP-04-03 Viewing South, November 16, 2016



Excavation DP-04-04 Viewing South, November 16, 2016



Liner Installed in DP-04-02 (4 feet) Viewing North, November 28, 2016



Liner Installed in DP-04-04 (4 feet) Viewing North, November 28, 2016



Backfilled Excavation at DP-04-05 Viewing East, November 16, 2016



Completed Remediation Viewing East, December 15, 2016

Appendix D Waste Manifests

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	EST NO		116215	1. PA	GEOF_	2. TRAIL	ER NO.	44000		
C	3. COMPANY NAME	4. ADDRESS			Water Land	5. P	ICK-UP DATE		COUNTY.		
G	PHONE NO.	CITY		CONTRACTOR		21D 6 75	NIDGO LD NO	aug sit	ar anna		
	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO				
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:				TAINERS	9. TOTAL	10. UNIT	11. TEXAS		
N					No.	Туре	QUANTITY	Wt/Vol.	WASTE ID#		
	b.										
E	C.										
	d.										
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	ROFILE N	0		
A							IS. WASTET	KOMEEN	Taking San		
	14. IN CA	SE OF EM	ERC	ENCY OR SPIL	L CO	VTACT					
T	NAME	PHONE NO		Dite Con of the	L, COI	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	24-HOUR	EMERGE	NCY NO.		
	15.GENERATOR'S CERTIFICATION:	I Haraby dagley	a that	this appropriate of this so		st am follo	and acquestable	dagarihad s	have by proper		
О	shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and an	e in a	I respects in proper co	ndition fo	or transport	by highway acc	ording to a	pplicable		
R	PRINTED/TYPED NAME		SIGNATURE C								
331				TED A MODORATED (A)							
T R	16. TRANSPORTER (1)			17. TRANSPORTER (2)							
A	NAME:			NAME:							
N S	TEXAS I.D. NO.			TEXAS I.D. NO.							
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	RGENC		T:				
O R	EMERGENCY PHONE:	ecula (19		EMERGENCY PH		100	E SHARE SHARE				
T	18. TRANSPORTER (1): Acknowledgment of	of receipt of mat	erial	19. TRANSPO	RTER				naterial		
E R	PRINTED/TYPED NAME		5 (1)	PRINTED/TYPED	NAME						
S	SIGNATURE	DATE		SIGNATURE	(MI	i anyitti		DATE			
E		ADDRESS:		R CONTRACT			PHONE;				
D F	Lea Land, LLC			Marker 64, U.			0,	575-8	87-4048		
I A S C	PERMIT NO.		30 N	Ailes East of Ca 20. COMMENTS	arisbac	ı, inivi		U (Alba	Ta Market		
PI	WM-01-035 - New Mex	ico									
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION: 1 He	ereby o	ertify that the above d	lescribed	wastes wer	e delivered to t	his facility	, that the		
LY	AUTHORIZED SIGNATURE	No and Sta		CELL NO.		DAT	B	Т	IME		
لين				SERVICE SERVICE) Invaria		19		

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NO	N-HAZARDOUS WASTE MANIF	EST	NO	11621	6	1. PAC	E_OF_	2. TRAIL	ER NO.	H)	
G	3. COMPANY NAME	4. ADD	RESS				5. P	ICK-UP DATE			
G	PHONE NO.	CITY		STATE		2	TP 6. T	NRCC I.D. NO			
E		dhed									
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D;				8. CONT	AINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	as the state of th										
	b	100	1	R. B.			70-4		413		
E	Ci				1						
R	d. T. Z. P. J. P. L. P.		7. Part	7 (4)							
	12. COMMENTS OR SPECIAL INSTRUCTIONS:							13. WASTE P	ROFILE N	O.	
A											
				ENCY OR	SPILI	L, CON	TACT				
T	NAME	PHON	E NO					24-HOUR	EMERGE	NCY NO.	
0	15 GENERATOR'S CERTIFICATION:	I Hereby	declare that	the contents of	this con	nsignmen	t are fully	and accurately	described a	bove by proper	
0	shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, I										
R	PRINTED/TYPED NAME	SIGNATURE								DATE	
					TRANSPORTER (2)						
T R	16. TRANSPORTER (1)			17. TRANSPORTER (2)							
A N	NAME: TEXAS I.D. NO.			NAME: TEXAS I.D. NO.							
S P	IN CASE OF EMERGENCY CONTACT:			IN CASE O				erp.			
0	EMERGENCY PHONE:			EMERGEN			COMP				
R	18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	The state of the s		-	2): Ackn	owledgment of	receipt of r	naterial	
E R	PRINTED/TYPED NAME	75 N		PRINTED/	TYPED	NAME					
S	SIGNATURE	DATE	15 CX	SIGNATUR	RE			Hank St.	DATE	NO POLICE	
		ADD	RESS:				: Win	PHONE			
D F	Lea Land, LLC			e Marker 6 Miles East	- 71			30,	575-88	87-4048	
I A S C	PERMIT NO.		301	20. COMMEN		irisoac	L INIVI		N. U.S. C.	ninit.	
PI	WM-01-035 - New Mex	ico									
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION	N: 1 Hereby	certify that the	above d	escribed	wastes we	re delivered to	this facility	, that the	
LY	AUTHORIZED SIGNATURE	79	3/4/	CELL NO.		9 10	DAT	Е	Т	IME	
	MANUAL TOPE						11/2		- 11/2		

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NOI	N-HAZARDOUS WASTE MANIF	EST	NO	116219	1. PAG	GEOF_	2. TRAII	ER NO.			
	3. COMPANY NAME	4. ADD	RESS			5. P	ICK-UP DATE		100		
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NC				
E				STATE			INCC III, TO				
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10, UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N	a.				140.	Турс	Total Control				
	b										
E											
	d. 1997										
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:		(-15)				13. WASTE I	POEILE N	0		
A	12. COMMENTS OR SPECIAL INSTRUCTIONS:						15. WASTE I	KOFILER			
A	14. IN CA	SE OF	EMED	GENCY OR SPIL	1 (0)	VTACT					
Т	NAME	PHON		GENET OK SITE	L, CO.	HACI	24-HOUI	REMERGE	NCY NO.		
	U. CENEDATODIS CEDITIFICATION							24 2023 19 2021	4.00.04		
0	O 15.GENERATOR'S CERTIFICATION: 1 Hereby declare that the contents of this consignment are fully and accurately described above by p shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND.										
R	PRINTED/TYPED NAME		David .	SIGNATURE		L.			DATE		
				TDANSBODTED (2)							
T R	16. TRANSPORTER (1)			17.	17. TRANSPORTER (2)						
A	NAME:			NAME: TEXAS I.D. NO.							
N S	TEXAS I D. NO.								11/31		
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMI		Y CONTA	CT:				
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	of receipt	of materia	EMERGENCY PI 19. TRANSPO		(2): Ackn	owledgment of	receipt of	naterial		
E	PRINTED/TYPED NAME			PRINTED/TYPEI	D NAME						
R								Diffe			
	SIGNATURE	DATE	nree.	_ SIGNATURE			PHONE	DATE			
	Lea Land, LLC	ADD	RESS: Mi	le Marker 64, U	S. Hw	y 62/18			87-4048		
D F I A				Miles East of C							
S C P I O L	WM-01-035 - New Mex	ico		20. COMMENTS							
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION	V: I Hereb	y certify that the above	described	wastes we	re delivered to	this facility	, that the		
LY	AUTHORIZED SIGNATURE			CELL NO.		DAT	Е	Т	IME /		

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	EST N	10	16217	1. PA	GEOF_	2. TRAIL	ER NO.	Contract of		
	3. COMPANY NAME	4. ADDRES	SS	myanere d		5. P	ICK-UP DATE				
G	PHONE NO.	CHEV		OTTATE		ZID (C.7)	NIDGG LD NIG		SELECTION OF		
100	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NC	THE REAL PROPERTY.	SECTION 1		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:		the latest by th	8. CON	TAINERS	9. TOTAL	10. UNIT	11, TEXAS		
N	9				No.	Туре	QUANTITY	Wt/Vol.	WASTE ID#		
N				A STATE OF		A Plant	19-34				
E	b.								Charles a		
E	C.			ALC: N		(0.44					
R	d.		700				Market Miles	1			
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE F	ROFILE N	O,		
A	in the state of th										
	14. IN CA	SE OF E	MERG	ENCY OR SPIL	L. CO	NTACT					
Т	NAME	PHONE N		20,000,000	23,000		24-HOUR	EMERGE	NCY NO.		
		TION: I Hereby declare that the contents of this consignment are fully and accurately described above by									
0	15. GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and	d are in al	I respects in proper co	ndition fo	or transport	by highway ac	cording to a	pplicable		
R	PRINTED/TYPED NAME			SIGNATURE I							
	CONTRACTOR OF STREET										
T	16. TRANSPORTER (1)			17. TRANSPORTER (2)							
R A	NAME:			NAME:							
N S	TEXAS I.D. NO.			TEXAS I.D. NO.							
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	RGENC	Y CONTA	CT:				
O R	EMERGENCY PHONE:		317,401	EMERGENCY PH							
T	18. TRANSPORTER (1): Acknowledgment of			19. TRANSPOI	RTER	(2): Ackn	owledgment of	receipt of a	naterial		
E R	PRINTED/TYPED NAME	77 7 1/1		PRINTED/TYPED	NAME						
S	SIGNATURE	DATE		SIGNATURE	25 50			DATE	ADMINISTRA		
	Lea Land LLC	ADDRES		Madage	C II		PHONE		07 4040		
D F	Lea Land, LLC	e e e		Marker 64, U. Miles East of Ca			50,	3/3-8	87-4048		
I A S C	PERMIT NO.		301	20. COMMENTS	Tioodi	, Plan	Liva but	11 11 10	William !		
PI	WM-01-035 - New Mex	ico									
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w		Hereby o	certify that the above of	lescribed	wastes we	re delivered to	this facility	, that the		
A T L Y	AUTHORIZED SIGNATURE			CELL NO.		DAT	E	Ť	IME		
	They was the			STATE OF THE PARTY		2.0	nis obash		(10)		
	Charles and the second	0.00				Market			STATE OF THE PARTY		

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NOI	N-HAZARDOUS WASTE MANIF	EST	NO -	116220	1. PAG	GEO	F 2. TR	AILER NO.			
	3. COMPANY NAME	4, ADDRE	SS			5.	PICK-UP DA	TE	ARM TO		
G	PHONE NO	COVERN C						Control of	gray .		
	PHONE NO.	CITY		STATE		ZIP 6.	TNRCC LD.	NO.	AND T		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	BD:			8. CON	TAINER:	S 9. TOTAL		T 11. TEXAS WASTE ID#		
N	a-complete the state of the sta					17/10					
	b. 4 (1) (7)				Į,						
E	C. T. B. T. E. T. E. C.	1							e de la composición dela composición de la composición de la composición de la composición dela composición de la composición dela composición dela composición de la composic		
R	d.		1/3//	97							
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WAST	E PROFILE	NO.		
A									是代表的		
	14. IN CA	SE OF E		ENCY OR SPIL	L, CO	NTACT		UR EMERG	ENCY NO		
T											
o	shipping name and are classified, packed, marked, an	CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by pro- assified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, L									
R	PRINTED/TYPED NAME			SIGNATURE DAT							
T	16. TRANSPORTER (1)			17.	TI	RANSP	ORTER (2)			
R	NAME:			NAME:							
N S	TEXAS I.D. NO.			TEXAS I.D. NO.							
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	RGENC	Y CONT	ACT:				
O R	EMERGENCY PHONE:		APPEN	EMERGENCY PH	The second line was a second line with the second l						
T	18. TRANSPORTER (1): Acknowledgment of			19. TRANSPOI	RTER	(2): Ack	nowledgment	of receipt of	material		
E R	PRINTED/TYPED NAME	CHAN	JE 3	PRINTED/TYPED	NAME						
S	SIGNATURE	DATE		SIGNATURE			Pin	DATE	123291		
	1-1-1110	ADDRE		1			PHO				
D F	Lea Land, LLC			Marker 64, U. files East of Ca		*	180,	5/5-8	387-4048		
I A S C	PERMIT NO.		30 IV	20. COMMENTS	iiisoac	1, 1 1111	TO YEAR		CALLED TO		
PI	WM-01-035 - New Mex	ico									
S I A T	21. DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION:	I Hereby c	ertify that the above d	escribed	wastes w	vere delivered	to this facilit	y, that the		
LY	AUTHORIZED SIGNATURE	H TH	15018	CELL NO.		DA	TE		TIME		
. 8	LICENTUS SELECT		75 -			1	15/19/19	100			

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	EST	NO	116223	1. PAG	GEOF_	2, TRAIL	ER NO.	2		
C	3. COMPANY NAME	4. ADD	RESS			5. P	ICK-UP DATE		11.5		
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC LD. NO	AA I	4600		
E				SIALD		211 0. 1	INCC ID. NO				
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N	and the party of the company of the				110.	Type	QUARTE				
	b										
E	c.		1					-6.2			
	d.		1	AZD)							
R	12. COMMENTS OR SPECIAL INSTRUCTIONS.		-4	1,13,12			13. WASTE P	ROFILE N	0,		
A											
	14. IN CA	SE OF	EMERO	GENCY OR SPIL	L, CO	NTACT					
T	NAME	PHON					24-HOUR	EMERGE	NCY NO.		
	15.GENERATOR'S CERTIFICATION:	I Hereby	declare that	the contents of this co	onsignme	nt are fully	and accurately	described a	bove by proper		
0	shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled.	and are in a	Il respects in proper co	ondition fo	or transport	by highway acc	cording to a	pplicable		
R	PRINTED/TYPED NAME			SIGNATURE D.							
									1		
T R	16. TRANSPORTER (1)			17. TRANSPORTER (2)							
A	NAME:			NAME:							
N S	TEXAS I.D. NO.			TEXAS I.D. NO.							
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMI	ERGENC	Y CONTAC	CT:				
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	19. TRANSPO		(2): Ackno	owledgment of	receipt of n	naterial		
E	PRINTED/TYPED NAME			PRINTED/TYPEI) NAME						
R		D. Lawre	ri (Pi					2 / mp			
	SIGNATURE	DATE	DUCC.	SIGNATURE			PHONE	DATE			
	Lea Land, LLC	ADD	RESS: Mil	e Marker 64, U	S. Hw	y 62/18	The same of the sa		87-4048		
D F I A		-		Miles East of C				and the second			
S C P I O L	WM-01-035 - New Mex	ico		20. COMMENTS							
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION astes.	N: 1 Hereby	certify that the above of	described	wastes we	re delivered to	this facility,	that the		
LY	AUTHORIZED SIGNATURE		LUXT	CELL NO.	gulis	DAT	E	T	ME = 7)		
		THE S					1	- ()>		

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	EST	NO	116224	1. PAG	GEOF_	2. TRAIL	ER NO.			
G	3. COMPANY NAME	4. ADD	RESS			5. P	ICK-UP DATE				
	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO				
E		Hill -						1			
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8, CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N	a.					Hill					
	b.				T.						
E	C. C	1	-			2052	50.17				
R	d	Y.	44.0	77							
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	ROFILE N	O.		
A									Te Table		
	14. IN CA	SE OF		ENCY OR SPIL	L, CON	NTACT	24 HOUR	EMERGE	VCV NO		
T	Name	PHON	E NO				24-HOUR	EMERGE	NCY NO.		
0	15.GENERATOR'S CERTIFICATION:	I Hereby	declare that	lare that the contents of this consignment are fully and accurately described above by proare in all respects in proper condition for transport by highway according to applicable							
	international and national government regulations, in	cluding a	pplicable sta	e state regulations, and are the same materials previously approved by LEA LAN							
R	PRINTED/TYPED NAME			SIGNATURE DATE							
Т	16. TRANSPORTER (1)			17.	TEX	ANCRO	RTER (2)				
R	NAME:			NAME:			KIEK (2)				
A N	TEXAS I.D. NO.			TEXAS I.D. NO.							
S P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	RGENC	Y CONTAC	Ti.				
O R	EMERGENCY PHONE			EMERGENCY PH							
T E	18. TRANSPORTER (1): Acknowledgment of	of receipt	30	19. TRANSPOI	RTER (2): Ackno	owledgment of	receipt of n	naterial		
R	PRINTED/TYPED NAME	ALC: No be		PRINTED/TYPED	NAME,						
S	SIGNATURE	DATE		SIGNATURE	Trac?			DATE			
	Lea Land, LLC	ADD	RESS:	Montroy 64 II	C H.	60/10	PHONE:		37-4048		
D F	Lea Land, LLC			Marker 64, U. Ailes East of Ca			0,	3/3-00	7-4046		
I A S C	PERMIT NO.			20. COMMENTS		10,731			5.050		
P I O L	WM-01-035 - New Mex						1435				
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION astes.	: I Hereby o	ertify that the above d	escribed	wastes wer	e delivered to t	his facility,	that the		
r v	AUTHORIZED SIGNATURE			CELL NO.		DATI	E TOTAL	п	ME		
	/40 mg 50 mg						(F) V (Sept				

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	116225	1. PAG	1. PAGEOF 2. TRAILER NO.										
	3. COMPANY NAME	4. ADDRE	SS			5. P.	ICK-UP DATE							
G								A PHO	PHRALLS					
	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO	The	755					
E	7 NAME OF THE CRIPTION OF WASTE STUDY				8 CON	TAINERS	9. TOTAL	10. UNIT	11. TEXAS					
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:	178		No.	Type	QUANTITY	Wt/Vol.	WASTE ID#					
N	and the land to the land the land the land													
	b. 21/2/2019/00						والريال							
E	e,													
	d.													
R			43	4342	3,00	10.13	ing Sus							
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	ROFILE N	0.					
A									ANIA					
				GENCY OR SPILL, CONTACT 24-HOUR EMERGENCY NO.										
T	NAME	PHONE	NO				24-HOUR	. EMERGE	NCY NO.					
	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by pro-													
0	shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LL													
		icluding app	licable sta		the same	materials	previously appr	oved by LE						
R	PRINTED/TYPED NAME			SIGNATURE					DATE					
m	TD (MCDODTED (1)				my	NORG	PATER (A)							
T R	16. TRANSPORTER (1)			17.	11	KANSPU	ORTER (2)							
A	NAME:			NAME:										
N S	TEXAS I.D. NO.			TEXAS I.D. NO.										
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMERGENCY CONTACT:										
O R	EMERGENCY PHONE:	16-01-		EMERGENCY PHONE:										
T	18. TRANSPORTER (1); Acknowledgment of	of receipt of	material	19. TRANSPO	RTER	(2): Ackno	owledgment of	receipt of r	naterial					
E R	PRINTED/TYPED NAME /			PRINTED/TYPEL	NAME									
S	SIGNATURE	DATE		SIGNATURE				DATE						
		ADDRE	SS:				PHONE							
	Lea Land, LLC	Lev School		e Marker 64, U.	S. Hw	y 62/18			87-4048					
D F I A			301	Miles East of Ca	arlsbac	l, NM								
S C	PERMIT NO.			20. COMMENTS										
P I O L	WM-01-035 - New Mex	100												
S I A T	21 DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	certify that the above of	lescribed	wastes wer	re delivered to	this facility	, that the							
LY	AUTHORIZED SIGNATURE	CELL NO.	1	DAT	В	т	IME							
13	ZAST MENERAL STATE			1 11 11 11			DECEMBER .							
			487 S				4 2 1 1 1	100	Many State of the					

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	NO	116248	1, PAG	GEOF_	2. TRAIL	2. TRAILER NO.						
G	3. COMPANY NAME	4. ADDR	ESS			5. P	ICK-UP DATE						
	PHONE NO.	CITY		STATE		ZIP 6. TNRCC I.D. NO.							
E	MINE A Company of the												
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON No. 1	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #				
N					Kining	Дене	Name of						
	b.												
E	c. The first in the company was grant.												
70	d. A4 11 A15								Market M				
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	ROFILE N	0.				
Ā													
	14. IN CA	SE OF	EMERG	ENCY OR SPIL	L. CON	NTACT							
T	NAME	PHONE				MEE.	24-HOUR	EMERGE	NCY NO.				
	15 GENERATOR'S CERTIFICATION	I Haraby d	laclare that	tha contents of this so	notomasor	et ava fully	and accurately	described a	hove by proper				
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proshipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, L												
R	PRINTED/TYPED NAME			SIGNATURE		7.010			DATE				
T R	16. TRANSPORTER (1)			17.	TF	RANSPO	RTER (2)						
A	NAME:			NAME:									
N S	TEXAS I.D, NO.			TEXAS I.D. NO.									
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMERGENCY CONTACT:									
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	of receipt of	f material	EMERGENCY PH 19. TRANSPOI		2): Ackno	wledgment of	receipt of n	naterial				
T E	PRINTED/TYPED NAME			PRINTED/TYPED			, roughton or						
R S			11313	PRINTED/TYPEL	NAME								
	SIGNATURE	DATE		SIGNATURE				DATE					
	Lea Land, LLC	ADDRI		Marker 64, U.	S Hw	v 62/18	PHONE:		37-4048				
D F I A	24. 24.14, 220			Ailes East of Ca			,	0 10 00	77-10-10				
S C	PERMIT NO. WM-01-035 - New Mex			20. COMMENTS									
P I O L													
S I A T	21.DISPOSAL FACILITY'S CERTIFICATION facility is authorized and permitted to receive such w	reby certify that the above described wastes were delivered to this facility, that the					that the						
IV	AUTHORIZED SIGNATURE		CELL NO.	O. DATE TIME			ME						
	Dental Des	Alle						1					

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	116250	1. PAG	1. PAGEOF 2. TRAILER NO.									
	3. COMPANY NAME	4. ADDF	RESS			5. P	ICK-UP DATE		AL ALL				
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC LD; NO						
E				SIMIL		311 0.1	MCC ID. NO						
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:			8. CON No. 1	TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #				
N	a:	31445		Virginia.	140.	Туре	QUARTITI	TTO VOI.	WASILION				
	b.												
E	Commence of the commence of th												
	distribution of the second												
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:						IO WIL OTHER	DODU EAS					
A	12. COMMENTS ON SPECIAL INSTRUCTIONS.						13. WASTE P	ROFILEN					
A	14. IN CA	SE OF	EMERC	CENCY OR CRY L. CONTROL									
T	NAME NAME	PHON	E NO	ENCY OR SPILL, CONTACT 24-HOUR EMERGENCY NO.									
	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately descri												
0	O 15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to international and national government regulations, including applicable state regulations, and are the same materials previously approved by I												
R	PRINTED/TYPED NAME			SIGNATURE					DATE				
T R	16. TRANSPORTER (1)			17.	TF	RANSPO	ORTER (2)						
A	NAME:			NAME:									
N S	TEXAS I.D. NO.			TEXAS I.D. NO.									
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	RGENC	Y CONTAC	T:						
R	EMERGENCY PHONE: 18. TRANSPORTER (1); Acknowledgment of	of receipt	of material	EMERGENCY PH 19. TRANSPOI		(2): Ackno	owledgment of	receipt of r	naterial				
T E	PRINTED/TYPED NAME 125 25 2	7		PRINTED/TYPED									
R													
	SIGNATURE	DATE		SIGNATURE				DATE					
	Lea Land, LLC	ADDF		Marker 64, U.	S Hw	v 62/18	PHONE:		87-4048				
D F I A				Ailes East of Ca									
S C P I	PERMIT NO. WM-01-035 - New Mex		20. COMMENTS										
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION vastes.	: 1 Hereby o	ertify that the above d	lescribed	wastes wer	e delivered to	this facility	, that the				
LY	AUTHORIZED SIGNATURE		CELL NO.	DATE TIME			IME						
100			1000			1	TCHINNEL						

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	NO	116251	1. PA	GE_OF_	2. TRAIL	2. TRAILER NO.						
G	3. COMPANY NAME	4. ADD	RESS			5. P	CK-UP DATE		to the last				
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO		200				
E													
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #				
N	a.												
	b.												
E	C.												
R	d / // // // // // // // // // // // //												
·K	12. COMMENTS OR SPECIAL INSTRUCTIONS:			13, WASTE PROFILE NO.									
Α									Suleting				
	14. IN CA			GENCY OR SPILL, CONTACT									
T	NAME	PHON	E NO	24-HOUR EMERGENCY NO.									
	15.GENERATOR'S CERTIFICATION:	I Hereby	declare that	t the contents of this co	nsignme	nt are fully	and accurately	described a	bove by proper				
0	shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, cluding a	and are in pplicable st	all respects in proper co ate regulations, and are	ndition for the same	or transport materials [by highway acoreviously appr	cording to a oved by LE	pplicable A LAND, LLC				
R	PRINTED/TYPED NAME			SIGNATURE		LY LT			DATE				
T R	16. TRANSPORTER (1)			17. TRANSPORTER (2)									
A N	NAME: TEXAS I.D. NO.			NAME: TEXAS LD, NO.									
S P	IN CASE OF EMERGENCY CONTACT:			TEXAS I.D. NO. IN CASE OF EMB									
0	EMERGENCY PHONE:			EMERGENCY PH		CONTA							
R	18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	19. TRANSPORTER (2): Acknowledgment of receipt of material									
E R	PRINTED/TYPED NAME		ie per s	PRINTED/TYPED	NAME								
S	SIGNATURE	DATE	, Finis	SIGNATURE	girla;	34. 1		DATE	REAL S				
	1 1116	ADD	RESS:				PHONE		\$850m				
D F	Lea Land, LLC		e Marker 64, U. Miles East of Ca			0,	575-88	37-4048					
I A S C	PERMIT NO.		30	20. COMMENTS	arisoac	i, ivivi	-	e Dine					
P I O L	WM-01-035 - New Mex	ico											
SI	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	certify that the above d	lescribed	wastes wer	e delivered to	this facility,	that the						
L Y	AUTHORIZED SIGNATURE	1		CELL NO.		DAT		n	ME				
	140 3181 18 20 17 14	Alyn	1	A Mary August 1 C 4									

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	116257	I. PAG	GE_OF_	_ 2. TRAILER NO.									
G	3. COMPANY NAME	4. ADDF	RESS			5. P	ICK-UP DATE							
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO		Marine A					
E														
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #					
N	a. 1				F-(1)	Турс	QUARTER							
	b.													
E														
	d.													
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:				19-1		12 WASTE D	POEH E N						
A	12. COMMENTO OR SPECIAL INSTRUCTIONS:						13. WASTE P	KOFILE N						
A	14. IN CA	SE OF	EMED	DENCY OF CRIT	I CO	TOLOT								
Т	NAME	PHON		GENCY OR SPIL	L, CUI	VIACI	24-HOUR	EMERGE	NCY NO.					
	15.GENERATOR'S CERTIFICATION: 1 Hereby declare that the contents of this consignment are fully and accurately described above by pr													
О	15.GENERATOR'S CERTIFICATION: 1 Hereby declare that the contents of this consignment are fully and accurately described above by proshipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, Li													
R	PRINTED/TYPED NAME	My C		SIGNATURE				75. S	DATE					
EB.								1						
T R	16. TRANSPORTER (1)			17.	TI	RANSPO	ORTER (2)							
A	NAME:			NAME:										
N S	TEXAS I.D. NO.			TEXAS I.D. NO.										
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMP	ERGENC	Y CONTAC	TT:		10.71					
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	EMERGENCY PHONE: 19. TRANSPORTER (2): Acknowledgment of receipt of material										
T E	PRINTED/TYPED NAME			PRINTED/TYPEI										
R		411		PRINTEDITIFE	/ IVAIVII.									
	SIGNATURE	DATE		SIGNATURE		20140000		DATE	Market St.					
	Lea Land, LLC	ADDI		le Marker 64, U	S Hu	v 62/18	PHONE:		37-4048					
D F I A	244 2444, 220			Miles East of C			,							
S C P I	PERMIT NO. WM-01-035 - New Mex	20. COMMENTS		d direct										
O L S I A T	21. DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	certify that the above of	described	wastes we	re delivered to	this facility,	that the							
LY	AUTHORIZED SIGNATURE	7.1717	CELL NO.	17.1	DAT	Е	T	ME						
14-1		7.20	Car Shill						1.15					

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

				44005				I A L					
NON	N-HAZARDOUS WASTE MANIF	EST	NO	116258	1. PAC	GEOF_	_ 2. TRAII	2. TRAILER NO.					
	3. COMPANY NAME	4. ADD	RESS	5. PICK-UP DATE									
G		The same				THE LAND	A TRUE		Design 1				
	PHONE NO.	CITY		STATE	Z	ZIP 6. TI	NRCC LD. NO	RCC I.D. NO.					
E			gelle)		11/1/2								
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CONT	TAINERS Type	9. TOTAL QUANTITY	10. UNIT	11. TEXAS WASTE ID #				
N	a				INO.	Турс	QUARTIT	WO TOIL	THE TOTAL TOTAL				
	The production will be a feet the production		14,0,60										
	b.								SCHOOL STATE				
E	Ci Ci	1/1	- 14.16					Eur.					
	d				Single								
R	44.160												
	12. COMMENTS OR SPECIAL INSTRUCTIONS:					Till I	13. WASTE I	PROFILE	Ю.				
A						- 1							
	14. IN CA	SE OF	EMEDO	CENCY OR SRIL	I CON	TACT							
т	NAME	PHON		GENCY OR SPIL	L, COP	VIACI	24-HOUT	REMERGE	NCY NO.				
	15.GENERATOR'S CERTIFICATION:	I Hereby	declare that	the contents of this co	onsignmen	t are fully	and accurately	described	above by proper				
О	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proposinipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LI												
		cluding a	ipplicable su	1	the same	materiais į	reviously app	loved by Li					
R	PRINTED/TYPED NAME			SIGNATURE					DATE				
		7774											
T	16. TRANSPORTER (1)			17. TRANSPORTER (2)									
R A	NAME:			NAME:									
N	TEXAS I.D. NO.			TEXAS I.D. NO.									
S							-						
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	ERGENCY	CONTAC	1:						
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	c .		EMERGENCY PH	A CONTRACTOR OF THE PARTY OF TH	(2)	1.1		and the				
T				19. TRANSPO	RIER (Z): Ackno	wiedgment of	receipt of	material				
E R	PRINTED/TYPED NAME	er inc	The Control	PRINTED/TYPEI	NAME .		131313131						
S													
	SIGNATURE	DATE		SIGNATURE				DATE					
		ADD	RESS:				PHONE		with horse years				
D F	Lea Land, LLC			e Marker 64, U.		and the second second	0,	575-8	87-4048				
IA			30 1	Miles East of C	arlsbad	l, NM							
S C	PERMIT NO. WM-01-035 - New Mex			20, COMMENTS									
P I O L	WIVI-01-033 - New IVIEX	100											
SI	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the												
A T	facility is authorized and permitted to receive such w												
LY	AUTHORIZED SIGNATURE	Topas	DE THE	CELL NO.		DATI	B	Т	IME /				
	人名英格兰 医克里斯氏 医马泽纳					173							

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	NO	116309	1. PA	GEOF_	2. TRAIL	ER NO.	12						
	3. COMPANY NAME	4. ADDRE	SS			5. P	ICK-UP DATE							
G														
	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO		CTART R					
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:				TAINERS	9. TOTAL	10. UNIT	11. TEXAS					
N	a.c. the contract of the contr		-		No.	Туре	QUANTITY	Wt/Vol.	WASTE ID#					
	b.	100	A STATE OF											
E		ALC: N												
R	a 4/10 4D9D	7)												
1	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	ROFILE N	0.					
A									S I I I					
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO 24-HOUR EMERGENCY NO.													
Т	NAME	PHONE 1					24-HOUR	EMERGE	NCY NO.					
	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by prope													
0	shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC													
R	PRINTED/TYPED NAME			SIGNATURE				BAN.	DATE					
T R	16. TRANSPORTER (1)	W 14		17.	TI	RANSPO	RTER (2)							
A	NAME:			NAME:										
N S	TEXAS I.D. NO.			TEXAS I.D. NO.										
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	RGENC	Y CONTAC	er:							
O R	EMERGENCY PHONE:			EMERGENCY PHONE:										
T	18. TRANSPORTER (1): Acknowledgment of			19. TRANSPOI	RTER	(2): Ackno	owledgment of	receipt of n	naterial					
E R	PRINTED/TYPED NAME	745/3	1/2	PRINTED/TYPED	NAME	100	A A AA							
S	SIGNATURE VENEZUE GAME	DATE		SIGNATURE				DATE						
		ADDRE					PHONE:							
D F	Lea Land, LLC			Marker 64, U.			30,	575-88	37-4048					
I A S C	PERMIT NO.		30 1	Ailes East of Ca 20. COMMENTS	arisbac	1, INIVI	Sala y	N. Ori	DICKS I					
P I	WM-01-035 - New Mex	ico												
O L S I	21 DISPOSAL FACILITY'S CERTIFIC	I Hereby o	ertify that the above d	lescribed	wastes wer	e delivered to	his facility,	that the						
A T	facility is authorized and permitted to receive such w													
LY	AUTHORIZED SIGNATURE		CELL NO.		DAT	E	TI	ME						
		0.101/2	V 10 110	19658		100	120121111							

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NO	N-HAZARDOUS WASTE MANIF	NO	116310	1. PAG	GEOF_	2. TRAIL	2. TRAILER NO.					
	3. COMPANY NAME	4. ADD	RESS	44.6		5. P	ICK-UP DATE					
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC LD, NO		EL PARTIE			
E		CITI		SIAIL		311	MRGC LD. NO					
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID#			
N	and the arthresh Cardenaria Later Sorte				110.	турс	QUARTITI		WASTE ID #			
	b.								W.			
E	c.											
	d. / / / / / / / / / / / / / / / / / / /											
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	POPILE N				
A	12. COMMISSION ON STREET LINGTING CHOING.						13. WASTLT	KOTILETA				
	14. IN CA	SE OF	EMERG	GENCY OR SPILL, CONTACT								
Т	NAME	PHON			2,001		24-HOUR	EMERGE	NCY NO.			
	15.GENERATOR'S CERTIFICATION:	I Harrier	daglars that	the contents of this co		t ann Galle	and assumately	dararibad a	hous hy proper			
0	shipping name and are classified, packed, marked, and international and national government regulations, in	ndition fo	r transport	by highway acc	ording to a	pplicable						
R	PRINTED/TYPED NAME			SIGNATURE	Y	ide.			DATE			
T R	16. TRANSPORTER (1)		4	17. TRANSPORTER (2)								
A	NAME:		-	NAME:								
N S	TEXAS I.D. NO.			TEXAS I.D. NO.					A section -			
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMP	RGENC	Y CONTAC	CT:					
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	EMERGENCY PH		(2): Ackno	owledgment of	receipt of n	naterial			
T E	PRINTED/TYPED NAME			PRINTED/TYPEI								
R												
	SIGNATURE	DATE		SIGNATURE				DATE				
	Lea Land, LLC	ADD	RESS: Mile	Marker 64, U.	S. Hw	v 62/18	PHONE:		87-4048			
D F I A				Ailes East of Ca				The tree				
S C P 1	PERMIT NO. WM-01-035 - New Mex	ico		20. COMMENTS								
O L S I A T	21 DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.											
LY	AUTHORIZED SIGNATURE			CELL NO.		DATE TIME						

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

NO	N-HAZARDOUS WASTE MANIF	NO	116453	1. PAC	E_OF_	_ 2. TRAILER NO.							
	3. COMPANY NAME	4. ADDRI	ESS			5. P.	ICK-UP DATE						
G	PHONE NO.	CITY		CTATE		(ID	NIDGO LD NO		LEXT.				
	FROMENO	CITY		STATE		IP 6. T	NRCC I.D. NO		711				
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CONT	AINERS	9. TOTAL	10. UNIT	11. TEXAS				
N	a.				No.	Туре	QUANTITY	Wt/Vol.	WASTE ID #				
18	Part & Carlot Ballon Barrell Bay & Carlo			Maria (18)		HAD.							
E	b.												
L	C.		A M										
R	d. /////							Marie					
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE PROFILE NO.						
A									1,122,144				
	14. IN CA	SE OF I	EMERG	ENCY OR SPIL	L. CON	TACT							
T	NAME	PHONE					24-HOUR	EMERGE	NCY NO.				
	CENED ATODIC CODWAYS ATVON	11124			- 1			2 0 0					
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by prop shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LI												
R	PRINTED/TYPED NAME			SIGNATURE					DATE				
N.													
Т	16. TRANSPORTER (1)		THE REAL PROPERTY.	17.	TR	ANSPO	RTER (2)						
R	NAME:			NAME:									
N	TEXAS I.D. NO.			TEXAS I.D. NO.									
S P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	RGENCY	CONTAC	T:						
O R	EMERGENCY PHONE:			EMERGENCY PH	IONE:								
T	18. TRANSPORTER (1): Acknowledgment of	of receipt of	f material	19. TRANSPO	RTER (
E R	PRINTED/TYPED NAME	OVE	0 1/	PRINTED/TYPEI	NAME	VALUE DE	H-WEST		Acares .				
S	SIGNATURE 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	DATE	4.00	SIGNATURE		- West		DATE	All Sand				
		ADDRI	ESS:			Mines.	PHONE						
D F	Lea Land, LLC	-		e Marker 64, U.			30,	575-88	37-4048				
I A	DEDIVITATIO	Ailes East of Ca	arlsbad	, NM									
S C P I O L	WM-01-035 - New Mex	20. COMMENTS											
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	by certify that the above described wastes were delivered to this facility, that the					that the						
LY	AUTHORIZED SIGNATURE	te rolly		CELL NO.	EVH.	DAT	Е	TI	IME				
911	1 (1017) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					land and							

Appendix E Initial and Final C-141

NM OIL CONSERVATION

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

State of New Mexico

ARTESIA DISTRICT

State of New IVICATOR

Energy Minerals and Natural Resources SEP 0 7 2016

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

1220 South St. Francis Dr. Santa Fe, NM 87505

RECEIVED

Release Notification and Corrective Action													
		3278	14,	* 29 P 300		OPERA?			🛛 Initi	al Report	Final Repor		
		TO Energy,		380 Midland, TX 707			dley McMinn Io.: (432) 682-8	873	· · · · · · · · · · · · · · · · · · ·				
		Draw Unit B					c: Tank Batter		oment Re	moved)			
Surface Ow	mer: Feder	ral		Mineral O	wner:	ederal			API No	. 30-015-2	8049		
		· · ·		LOCA	TION	OF REI	EASE						
Unli Letter D	Section 13	Township 238	Range 29E	Feet from the	North/S	rth/South Line Feet from the North 475			Vest Line Vest	County: E	Eddy		
	Latitude 32.312222 Longitude -103.945556 NATURE OF RELEASE												
Type of Rele	ase: Crude	Oil		INAI	URE		Release: Unknov	vn	Volume	Recovered:	None		
								Date and	Ham of Di-	- ANYAMI			
Source of Ro	iease: Spill	5			_	Unknown	lour of Occurrent	e e	07-20-20	Hour of Dis	covery		
Was Immedi	ate Notico C		Yes [) No ⊠ Not Ro	quired	If YES, To	Whom?						
By Whom? Was a Water	course Dags	chado				Date and F	lour dume Impacting	the Wat	eroniese				
WIGE WINCE	comse icenc		Yes 🗵	No		11 125, 40	name makacang	tiic wan	n course.				
following rea	noval of tar	ks and equip	nent, Wil	Il remediate to OC				nk batte	ry reported	l in soil sam	ples by laboratory		
		and Cleanup / rated, treated		ken.* stment or disposed	offsite a	st OCD appro	oved facility. Re	fer to at	ached and	lytical 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.													
Signature:	\ll	2	hur	16.			OIL CON		4	V DIVISI) ON		
Printed Name	e: Luke Wi	lliams				Approved by	Environmental !	Speciali	st: [00	<u> </u>		
Title: EH&S	Coordinate	7(Approval Da	10: 918 14)	Expiratio	n Date: N	/A		
E-mail Addre	ess; Luke_V	Villiams@xto	energy.co	m		Conditions o	f Approval:			Attache	ed 🔲		
Date: 09-07		···		one: (432) 683-88'	73	Remedia	t Approvati tion per O.C	D. Ru	les & G	uldeline	s <u> </u>		
Attach Addi	tional Shee	ets If Necess		VIIV. (304) 003-00	·····	SUBMIT REMEDIATION PROPOSALINO 2RP-38							

Patterson, Heather, EMNRD

From:

Mark Larson < Mark@laenvironmental.com>

Sent:

Wednesday, September 07, 2016 4:54 PM

To: Cc: Patterson, Heather, EMNRD 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 38, September 7, 2016.pdf

Dear Heather,

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)



www.LAEnvironmental.com

"Serving the Permian Basin Since 2000"

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

State of New Mexico Energy Minerals and Natural Resources

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

Release Notification and Corrective Action

Form C-141 Revised August 8, 2011

						OPERA?	FOR		☐ Initia	al Report	\boxtimes	Final Report	
Name of Co						Contact: Dudley McMinn							
				Aidland, TX 707			No.: (432) 682-8						
Facility Nar	ne: Nash	Draw Unit B	attery #1	5 & #33		Facility Typ	e: Tank Batter	y (Equi	ipment Rei	moved)			
Surface Ow	ner: Fedei	ral		Mineral O	wner:	Federal			API No	. 30-015-2	8049		
				LOCA	TION	OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the		Cast/West Line County: Eddy				
D	13	23\$	29E	10]	North	475		West				
	I			I a 454 m d a 20 2	12222	Yanaitud	102 045556	<u> </u>		<u> </u>			
						-	e <u>-103.945556</u> E A CIE						
Type of Rele	ase: Crude	Oil		NAI	UKŁ	OF REL	EASE Release: Unknov	.VI)	Volume I	Recovered:	None		
			······································			Data and I	lour of Occurrence		Data and	Hour of Dis	cover	,	
Source of Re	iease: Spiii	S				Unknown			07-20-20				
Was Immedia	ate Notice (Yes [] No 🛛 Not Re	eauired	If YES, To	Whom?						
By Whom?	······································	td		J		Date and Hour							
Was a Water	course Reac	,	Yes 🏻	1 x1a		If YES, Ve	olume Impacting	the Wat	lercourse.				
XC 137	T											***************************************	
If a Watercou	irse was im	pacted, Descr	ibe Fully.	,									
				n Taken.* Hydroc I remediate to OC				nk batte	ry reported	in soil sam	ples by	laboratory	
		, ,				•							
Describe Are	a Affected	and Cleanup	Action Ta	ken.* Soil was ex	vesvated	I to 2 feet ha	s DP=04=01 and I	DP-04-0	3 over area	s measurin	o appre	oximately 20 x	
25 feet and 2	0 x 40 feet,	respectively.	Locations	s DP-04-02 and D	P-04-04	were excava	ted to maximum	depths	of 4 feet ov	er areas me	asuring	about 40 x 45	
feet and 15 x	c 20 feet, re	spectively. I.	aboratory	results of confirmathe bottom of the	nation s	soil samples t	from the excavati	ion side	walls confi	rmed BTEX	⟨ and T -04-05	PH below the	
to approxima	itely 1 foot	bgs over an a	rea measu	ring approximatel	ly 10 x 1	10 feet. The	excavations were	backfi	lled with ca	lliche. App	roxima	tely 613 cubic	
				Land Landfill, LL									
				e is true and comp									
				nd/or file certain r									
should their	or the environs h	ronment. The lave failed to a	acceptano dequately	ce of a C-141 reporting the control of the control	ort by the emediat	e contaminat	ion that nose a th	ceport reat to s	goes not re	neve me op er, surface v	ater, h	uman health	
or the enviro	nment. In a	ddition, NMC	CD accep	otance of a C-141	report d	oes not reliev	e the operator of	respon	sibility for o	compliance	with at	ny other	
federal, state.	or local lav	ws and/or regu	ılations.		T		011 000	CEDY	TATION	DIME	ONI		
							OIL CON	ISEK'	VAHUN	DIVISI	<u>UN</u>		
Signature:									. 0		, O .	00.	
Printed Name	e: Luke Wi	lliams				Approved by	Environmental S	speciali	st: Orac	aford	DU	vings	
Title: EH&S	Coordinate)r				Approval Date: 11/19/2019			Expiration Date:				
	E mail Address: Luke Williams@vtoenergy.com						Conditions of Approval:			•			
E-mail Address: Luke_Williams@xtoenergy.com									Attached				
Date: 03-23	-2017		Pho	one: (432) 683-88	73								