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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

					mita i	C, 141VI 0/2	003					
			Rele	ease Notific	catio	n and Co	orrective A	ction	l			
						OPERA'	ГOR		☐ Initi	al Report	\boxtimes	Final Repor
Name of Co		Enterprise C				Contact Cl	ristopher A Spo	ore, P.G				<u> </u>
Address 4	500 E Hwy	80, Midlan	d, Tx, 79	706			No. 432-214-32					
Facility Nat	ne Devoi	1 Thistle Fed	52H			Facility Typ	e Central Tanl	k Batter	у			
Surface Ow	ner BLM			Mineral C)wner				API No	. 30-025-4	1897	
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/W	est Line	County		
F	28	238	33E	180		North	1795		Vest	Lea		
				Latitude 32.		Longitud	le <u>-103.57966</u> EASE					_
Type of Relea							Release 97 bbl		Volume F	Recovered 2	0 bb1	
Source of Rel			tank trail	er		Date and H 7/6/16 04;	our of Occurrence			Hour of Disc		7/6/16
Was Immedia				No 🗌 Not Re	quired	Santa Fe @	vere left with NM 1325 on 7/6/16 at	IOCD Di	istrict 1 offed of activ	ities. BLM.		
By Whom? C Was a Watero	hristopher A	A Spore, P.G.	Enterpris	e Crude Oil		Date and Hour NMOCD 7/6/16 at 0832 & 0835; BLM 7/6/16 at 0938.						
was a water	ourse Reac		Yes 🛛	No		If YES, Vo	lume Impacting th	he Water	rcourse.			
Describe Caus Crude transpo 2x vacuum tru	se of Proble rt driver ov cks were in	m and Remederfilled tank to	lial Action railer durin	Taken.* ng loading. o location, and all	I free o	il was recovere	xd.					
Describe Area Spill site is a c Impacted calic of contaminan	Affected a saliche tank she/soils we ts.	nd Cleanup A battery pad. are excavated a	ction Take Irregular f and dispos	low path measuri sed of by Environ	ng ~17 mental	5' x 95'. contractor (Ta	lon/LPE). Discre					
public health of should their or	operators a or the environerations ha nent. In ad	re required to onment. The a ve failed to ac dition, NMOO	report and acceptance lequately in acceptance.	1/or file certain re c of a C-141 repor investigate and re	lease n t by the mediate	otifications and NMOCD ma contamination	nowledge and und perform correct rked as "Final Rent that pose a threat the operator of rent the control of the	ive action port" docated	ns for releases not relie	ases which reve the opera	nay end ator of l	danger liability
Signature: Mus Apre Printed Name: Christopher A Spore, P.G.						OIL CONSERVATION DIVISION Approved by Environmental Specialist:						Ц
Title: Senior F	ield Enviro	nmental Scien	ntist			Approval Date	: 4/10/2023	Ex	piration D			
E-mail Address	s: caspore@	eprod.com				Conditions of A	Approval:			Attached		

None

* Attach Additional Sheets If Necessary

Phone: 432-214-3264

Date: 9/26/16







talonlpe.com • 866.742.0742



Site Closure Report

Devon Thistle 28 CTB Enterprise: T16-079

Talon Project #700348.343.01

Prepared For:

Enterprise Crude Oil 4500 East Highway 80 Midland, Texas 79706

Prepared By:

Brian Payton Talon/LPE 2901 Hwy 349 Midland, TX 79706

SITE CLOSURE REPORT

DEVON THISTLE 28 CTB ENTERPRISE CRUDE OIL ENTERPRISE #T16-079 RP #4338

TALON/LPE PROJECT NO. 700348.343.01

PREPARED FOR: ENTERPRISE CRUDE OIL 4500 EAST HIGHWAY 80 MIDLAND, TEXAS 79706

Prepared By:

Brian Payton Project Manager

Melissa Decker District Manager

Shane Curie, PG Professional Geologist

Talon/LPE 2901 State Highway 349 Midland, Texas 79706

July 19, 2016

i



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1.0 INTRODUCTION

1.1 Objectives and Site Background

Talon/LPE (Talon) was retained by Enterprise Crude Oil (Enterprise) to provide environmental consulting services at the Devon operated Thistle 28 CTB (site). The purpose of this report is to document remediation and site restoration activities undertaken regarding the release of crude oil at the subject site.

The site is located approximately 24.5 miles northwest of the city of Jal, in Lea County, New Mexico. The GPS coordinates for the site are 32.282491° north latitude and 103.580079° west longitude. A crude oil release occurred as a result of truck driver error during truck loading activities. Remediation activities occurred on site following guidance drafted by the New Mexico Energy, Natural Resources Department (EMNRD), New Mexico Oil Conservation Division (OCD) rules (NMAC 19.15.30 Remediation and NMAC 20.6.2 Ground and Surface Water Protection) and the New Mexico EMNRD OCD Guidelines for Remediation of Leaks, Spills and Releases as guidance.

On July 6, 2016, a release of crude oil occurred at the referenced site from a transport truck during loading activities. The release was determined to be approximately 97 barrels (bbl) of crude oil lost with 20 bbl recovered, resulting in a net loss of 77 bbl of crude oil. Enterprise completed a C-141 Release Notification and Corrective Action Report on July 6, 2016. Impacts from the release crude oil were limited to the tank battery pad. The release impacted a total area that measured approximately 90 feet wide and 175 feet in length. A Topographic Map depicting the location of the Site is included as Figure 1. An Aerial Photograph of the Site is attached as Figure 2. Site Details are provided as Figure 3.

1.2 NMOCD Site Classification

The site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to crude oil releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19-15-30 Remediation. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

A search of the New Mexico Water Rights (NMWRRS) database maintained by the New Mexico Office of the State Engineer, Provided information for Section 28, Township 23S, Range 33E. The provided information indicated that groundwater should be encountered at approximately 400 feet below ground surface (bgs). A search of the NMWRRS database indicated there are no water wells within 1000 feet of the release. There are no surface water bodies within 5000 feet of the release. Based on depth to groundwater and proximity to surface water, the site received a ranking of zero (0). Guidelines for this release site are listed below:

Compound	Remediation Threshold
Benzene	10 mg/kg (ppm)
BTEX	50 mg/kg (ppm)
TPH	5000 mg/kg (ppm)
Chloride	1,000 mg/kg

2.0 INITIAL SITE ACTIVITIES

On July 6, 2016, Enterprise personnel dispatched two vacuum trucks to collect all free crude oil. The recovered oil was returned to the Enterprise pipeline system. An emergency utility line locate was placed, prior to excavation and remediation activities. Based on olfactory and visual observations, the horizontal extent was determined to be an irregular shape measuring approximately 175 feet long and 90 feet wide. The vertical extent ranged from two (2) inches to 1.5 feet bgs. Talon personnel conducted an initial assessment of the site and initiated site excavation activities.

3.0 SOIL EXCAVATION, REMEDIATION, AND BACKFILL ACTIVITIES

3.1 Remedial Excavation Activities

From July 6, 2016, through July 11, 2016, Talon conducted soil excavation activities. During that time, impacted soil was excavated utilizing a rubber tired backhoe and hand tools. Impacted soil that was excavated included the top layer of the caliche pad as well as top soil located underneath the well pad. Approximately 80 cubic yards of impacted soil was stockpiled on site prior to disposal via dump truck to Lea Land, LLC (Lea Land) in Carlsbad, New Mexico from July 7, 2016, through July 12, 2016.

The final excavation limits were initially determined using visual and olfactory senses. Laboratory analyses of samples collected at the bottom of the excavation were used to confirm when regulatory cleanup levels were achieved. Details of the soil sampling activities and laboratory results are presented in Section 4.0 of this report.

The final excavation limits measured approximately of 90 feet wide, 175 feet in length. Vertical depth ranged from two (2) inches to 1.56 feet bgs. Photographic Documentation of excavation activities is presented in Appendix C. Copies of the Waste Manifests is presented in Appendix F.

3.2 Backfill Activities

On July 11, 2016, and July 12, 2016, the excavated area was backfilled and graded to match pre-release conditions. Fresh soil procured from Lea Land was utilized as backfill material. Backfill activities were completed by utilizing a rubber tired backhoe.

4.0 SOIL SAMPLING ACTIVITIES

4.1 Sample Collection

During excavation activities, confirmation soil samples were collected on July 6, 2016, and July 7, 2016. Six (6) confirmation soil samples were collected and designated as (SS-1, SS-2, SS-3, SS-4, SS-5, and SS-6). Following NMOCD request, additional samples were collected by advancing a hand auger. The samples were designated as SS-6B (2" bgs), SS-6C (5" bgs), and SS-6D (5' bgs). The soil samples were collected by Talon personnel using industry accepted, standard operating procedures. These procedures include wearing new, clean nitrile gloves, and collecting laboratory samples using decontaminated or disposable hand tools (when applicable) to prevent cross-contamination.

Talon personnel collected soil samples for benzene, toluene, ethylbenzene and total xylenes (BTEX), total petroleum hydrocarbons (TPH), and chloride concentrations. The samples were collected in laboratory provided sample containers, immediately placed in an ice-chilled cooler, and transported to Xenco Laboratories in Midland, Texas.

4.2 Analytical Results

Initial laboratory analytical results indicated that TPH concentrations for all samples collected were less than 50.0 mg/Kg, which is well below the regulatory clean up levels of 5,000 mg/Kg. Laboratory results indicated that BTEX concentrations for all soils samples were below the remediation threshold of 10 mg/Kg. Laboratory results for the soil samples collected indicated that Chloride levels were below the recommended clean up levels of 1,000 mg/Kg.

Copies of the laboratory analytical results and chain of custody documentation are presented in Appendix D. A summary of the excavation confirmation soil sample analytical results are presented on Table 1 and Table 2 in Appendix B.

5.0 CONCLUSION

5.1 Conclusions

- A crude oil release was reported by Enterprise at the site on July 6, 2016, as a result of driver error during truck loading activities. Enterprise personnel estimated that 97 bbl of crude oil were released and 20 bbl were recovered, resulting in a net loss of 77 bbl of crude oil.
- Excavation activities were conducted by Talon personnel from July 6, 2016, to July 11, 2016. Excavated material was transported to Lea Land in Carlsbad, New Mexico.
- The excavated area was backfilled and graded to match pre-release conditions with uncontaminated material procured from Lea Land. Backfill activities were completed by utilizing a rubber tired backhoe.

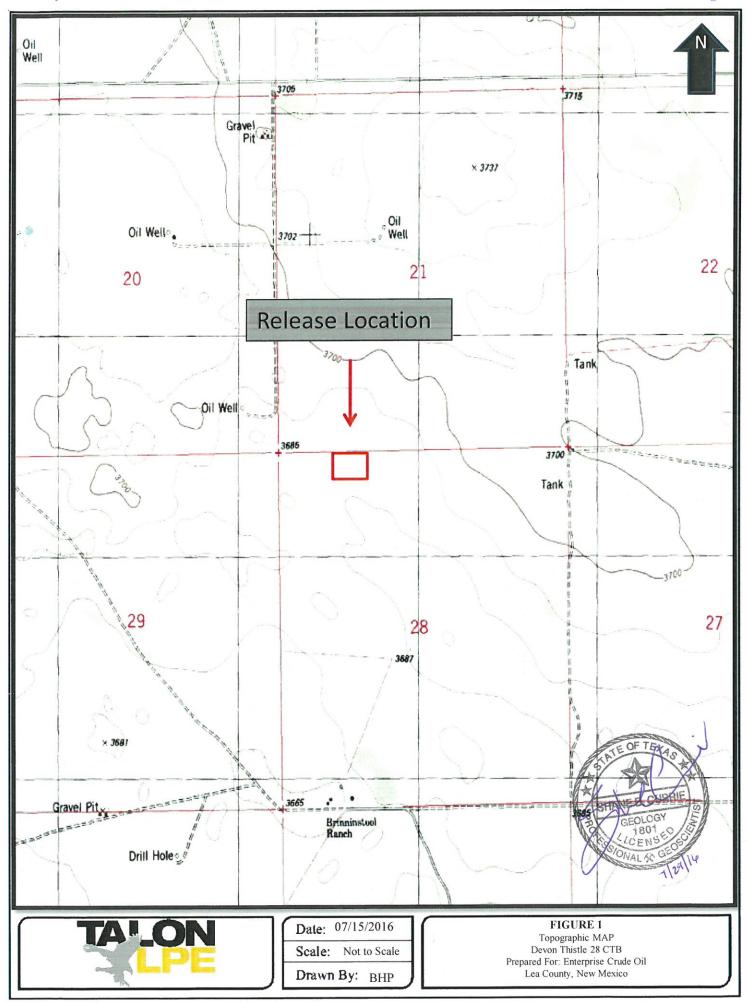
5.2 Recommendations

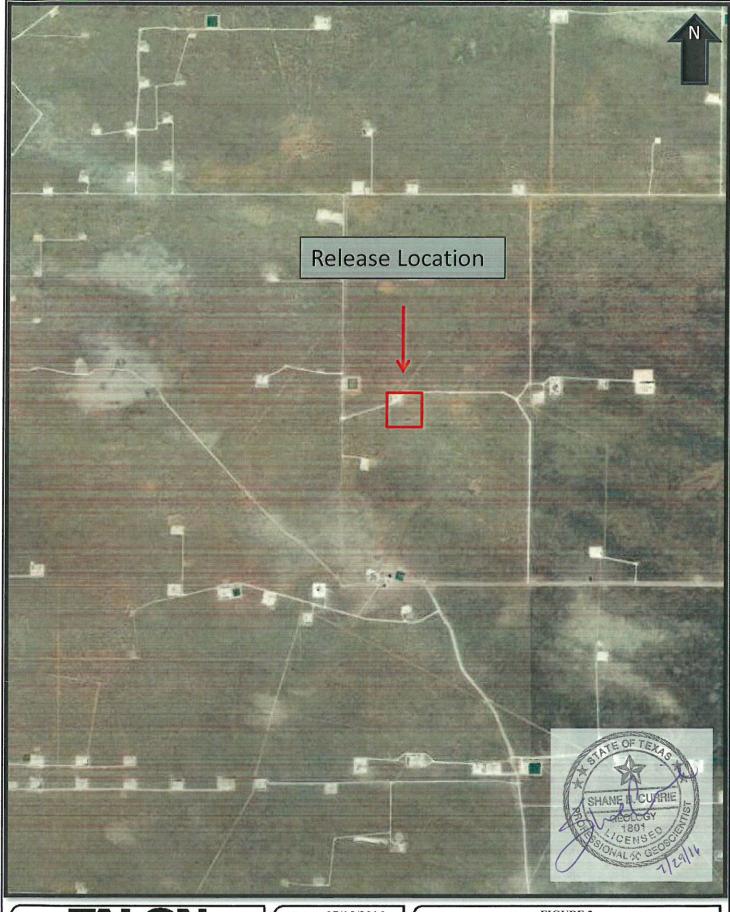
Based on laboratory analytical results of soil samples collected from the excavation limits, the vertical extent of the release area is delineated so that TPH, BTEX, and Chloride concentrations are below the soil cleanup level.

This report will be the final documentation regarding the release. Based on the remediation activities and data presented in this report, no further action is proposed for this site.

APPENDIX A

FIGURES





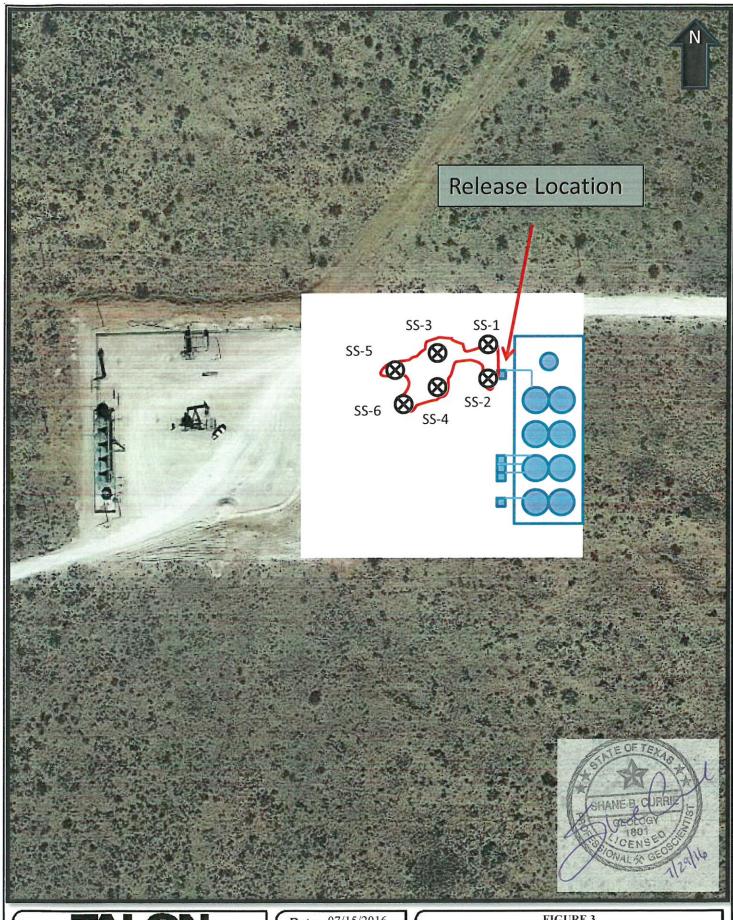


Date: 07/15/2016

Scale: Not to Scale

Drawn By: BHP

FIGURE 2
Aerial Map
Devon Thistle 28 CTB
Prepared For: Enterprise Crude Oil
Lea County, New Mexico





Date: 07/15/2016

Scale: Not to Scale

Drawn By: BHP

FIGURE 3

Site Details Devon Thistle 28 CTB Prepared For: Enterprise Crude Oil Lea County, New Mexico

APPENDIX B

TABLES



TABLE 1

CONCENTRATIONS OF TPH AND BTEX IN SOIL

DEVON THISTLE 28 CTB ENTERPRISE CRUDE OIL 24.5 MILES NORTHWEST OF JAL, NEW MEXICO

TALON/LPE PROJECT NUMBER: 700348.343.01

	ı	METHOD: 8015	М	METHOD: 8021				
SAMPLE LOCATION	SAMPLE DATE	DRO (mg/Kg)	GRO (mg/Kg)	TOTAL TPH (mg/Kg)	Benzene	Toulene	Ethyl- benzene	Total Xylenes
SS-1	7/6/2016	1,420	74	1,530	ND	0.00725	0.01360	0.10400
SS-2	7/6/2016	1,370	56	1,470	ND	0.00248	0.00279	0.02680
SS-3	7/7/2016	39	ND	39	ND	ND	ND	ND
SS-4	7/7/2016	ND	ND	ND	ND	ND	ND	ND
SS-5	7/7/2016	ND	ND	ND	ND	ND	ND	ND
SS-6	7/7/2016	1,470	39	1,530	0.00259	0.03160	0.01020	0.05160
Remedial Threshold				5,000	10			

(ND) = (Non-Detectable)

^{*} Bolded values are in excess of the NMOCD Remediation Thresholds



TABLE 2

CONCENTRATIONS OF CHLORIDE IN SOIL

DEVON THISTLE 28 CTB ENTERPRISE CRUDE OIL LEA COUNTY, NEW MEXICO

TALON/LPE PROJECT NUMBER: 7000348.343.01

			METHOD: 300.0
SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH	CHLORIDE (mg/Kg)
SS-1	7/6/2016	SURFACE	193
SS-2	7/6/2016	SURFACE	107
SS-3	7/7/2016	SURFACE	11
SS-4	7/7/2016	SURFACE	39
SS-5	7/7/2016	SURFACE	ND
SS-6	7/7/2016	SURFACE	1,610
SS-6B	9/15/2016	2 IN. BGS	42
SS-6C	9/15/2016	5 IN. BGS	282
SS-6D	9/15/2016	5 FT. BGS	ND
Remedial Threshold			3,000

^{*} **Bolded** values are in excess of the Remediation Thresholds

APPENDIX C

PHOTOGRAPHIC DOCUMENTATION



Photographic Documentation

Project Number: 700348.343.01 Enterprise Crude Oil- Devon Thistle 28 CTB Lea County, New Mexico

Photograph No. 1

Direction: Southwest

Description:Source of crude oil release and flowpath.



Photograph No. 2

Direction: Northeast

Description: Crude oil flowpath.



TALON

Photographic Documentation

Project Number: 700348.343.01 Enterprise Crude Oil- Devon Thistle 28 CTB Lea County, New Mexico

Photograph No. 3

Direction: Southwest

Description:

Rubber tired backhoe performing excavation activities.



Photograph No. 4

Direction: Southwest

Description:

Excavation with hand tools around conduit lines.



TALON

Photographic Documentation

Project Number: 700348.343.01 Enterprise Crude Oil- Devon Thistle 28 CTB Lea County, New Mexico

Photograph No. 5

Direction: South

Description: View of excavation activities.



Photograph No. 6

Direction: East

Description:

Release site following excavation activities.



TALON

Photographic Documentation

Project Number: 700348.343.01 Enterprise Crude Oil- Devon Thistle 28 CTB Lea County, New Mexico

Photograph No. 7

Direction: Northeast

Description:

View of excavation site following excavation activities.



Photograph No. 8

Direction: Northeast

Description:

Release site following backfilling activities.



APPENDIX D

LABORATORY ANALYTICAL DATA REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

Analytical Report 533104

for Talon/LPE Co.

Project Manager: Brian Payton
Enterprise-Devon Thistle 28 CTB
700348.343.01
15-JUL-16

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





15-JUL-16

Project Manager: **Brian Payton Talon/LPE Co.**2901 S State Highway 349
Midland, TX 79706

Reference: XENCO Report No(s): 533104

Enterprise-Devon Thistle 28 CTBProject Address: Lea Co., New Mexico

Brian Payton:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 533104. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 533104 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Knus Roah

Project Manager

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Sample Cross Reference 533104



Talon/LPE Co., Midland, TX

Enterprise-Devon Thistle 28 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-1	S	07-06-16 15:15	- 4 In	533104-001
SS-2	S	07-06-16 15:27	- 4 In	533104-002



CASE NARRATIVE



Client Name: Talon/LPE Co.

Project Name: Enterprise-Devon Thistle 28 CTB

 Project ID:
 700348.343.01
 Report Date:
 15-JUL-16

 Work Order Number(s):
 533104
 Date Received:
 07/11/2016

Sample receipt non conformances and comments:



CASE NARRATIVE



Client Name: Talon/LPE Co.

Project Name: Enterprise-Devon Thistle 28 CTB

 Project ID:
 700348.343.01
 Report Date:
 15-JUL-16

 Work Order Number(s):
 533104
 Date Received:
 07/11/2016

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 533104

Talon/LPE Co., Midland, TX

Project Name: Enterprise-Devon Thistle 28 CTB



Project Id: 70
Contact: B

Project Location:

700348.343.01 Brian Payton

Lea Co., New Mexico

Date Received in Lab: Mon Jul-11-16 11:10 am

Report Date: 15-JUL-16 **Project Manager:** Kelsey Brooks

	Lab Id:	533104-0	001	533104-	002		
Analysis Requested	Field Id:	SS-1		SS-2			
Anaiysis Requesieu	Depth:	4 In		4 In			
	Matrix:	SOIL	,	SOIL	,		
	Sampled:	Jul-06-16	15:15	Jul-06-16	15:27		
BTEX by EPA 8021B	Extracted:	Jul-12-16	17:00	Jul-12-16	17:00		
	Analyzed:	Jul-12-16	18:06	Jul-12-16	17:46		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		ND	0.00149	ND	0.00150		
Toluene		0.00725	0.00199	0.00248	0.00200		
Ethylbenzene		0.0136	0.00199	0.00279	0.00200		
m,p-Xylenes		0.0504	0.00199	0.0122	0.00200		
o-Xylene		0.0323	0.00299	0.00936	0.00299		
Total Xylenes		0.0827	0.00199	0.0216	0.00200		
Total BTEX		0.104	0.00149	0.0268	0.00150		
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-14-16	10:00	Jul-14-16	10:00		
	Analyzed:	Jul-15-16 (01:39	Jul-15-16	01:47		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		193	10.0	107	10.0		
TPH by SW 8015B	Extracted:	Jul-13-16	12:30	Jul-13-16	12:30		
	Analyzed:	Jul-13-16	16:09	Jul-13-16	17:27		
	Units/RL:	mg/kg	RL	mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons		74.1	15.0	56.1	15.0		
C10-C28 Diesel Range Hydrocarbons		1420	15.0	1370	15.0		
Total TPH		1530	15.0	1470	15.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks
Project Manager



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	
	(281) 240-4200 (214) 902 0300 (210) 509-3334 (432) 563-1800



Form 2 - Surrogate Recoveries

Project Name: Enterprise-Devon Thistle 28 CTB

Work Orders: 533104,

Project ID: 700348.343.01

Lab Batch #: 997905 Matrix: Soil Sample: 533104-002 / SMP Batch: 1

Units: mg/k	g Date Analyzed: 07/12/16 17:46	SURROGATE RECOVERY STUDY							
	BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
	Analytes			[D]					
1,4-Difluorobenzene		0.0279	0.0300	93	80-120				
4-Bromofluorobenzer	ne	0.0283	0.0300	94	80-120				

Lab Batch #: 997905 Sample: 533104-001 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/12/16 18:06	SURROGATE RECOVERY STUDY							
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
		Analytes			[D]					
1,4-Difluoro	obenzene		0.0283	0.0300	94	80-120				
4-Bromoflu	orobenzene		0.0299	0.0300	100	80-120				

Sample: 533104-001 / SMP Lab Batch #: 998051 Batch: Matrix: Soil

Units: mg/kg Date Analyzed: 07/13/16 16:09 SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	99.9	107	70-135	
o-Terphenyl	51.7	50.0	103	70-135	

Lab Batch #: 998051 **Sample:** 533104-002 / SMP Batch: Matrix: Soil

Units:	nits: mg/kg Date Analyzed: 07/13/16 17:27			SURROGATE RECOVERY STUDY									
	TP	H by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1-Chlorooc	ctane		99.9	99.7	100	70-135							
o-Terpheny	yl		48.3	49.9	97	70-135							

Batch: Lab Batch #: 997905 **Sample:** 710874-1-BLK / BLK Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/12/16 10:18	SURROGATE RECOVERY STUDY								
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1,4-Difluoro	benzene	11mily tes	0.0307	0.0300	102	80-120					
4-Bromofluo	orobenzene		0.0291	0.0300	97	80-120					

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: Enterprise-Devon Thistle 28 CTB

Work Orders: 533104,

...../1....

Sample: 710924-1-BLK / BLK

Project ID: 700348.343.01

Lab Batch #: 998051

TT...*4...

Date Analyzed: 07/13/16 13:20

Matrix: Solid Batch: 1

Units:	mg/kg	Date Analyzed: 07/13/16 13:20	SURROGATE RECOVERY STUDY								
	TPI	H by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
		Analytes									
1-Chlorooct	ane		106	100	106	70-135					
o-Terpheny	1		52.5	50.0	105	70-135					

Lab Batch #: 997905 **Sample:** 710874-1-BKS / BKS Batch: Matrix: Solid

-1----1- 07/12/17 00:01

Units: mg/kg Date Analyzed: 0//12/16	09:01 SI	JRROGATE RI	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes		[-]	[D]	,,,==	
1,4-Difluorobenzene	0.0340	0.0300	113	80-120	
4-Bromofluorobenzene	0.0307	0.0300	102	80-120	

Lab Batch #: 998051 Sample: 710924-1-BKS / BKS Batch: Matrix: Solid

Units: mg/kg Date Analyzed: 07/13/16 13:49 SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	49.4	50.0	99	70-135	

Lab Batch #: 997905 **Sample:** 710874-1-BSD / BSD Batch: 1 Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/12/16 09:17	SURROGATE RECOVERY STUDY									
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1,4-Difluor	robenzene		0.0326	0.0300	109	80-120						
4-Bromoflu	uorobenzene		0.0295	0.0300	98	80-120						

Batch: Lab Batch #: 998051 Sample: 710924-1-BSD / BSD Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/13/16 14:19	SURROGATE RECOVERY STUDY								
	TP	H by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooct	tane		113	100	113	70-135					
o-Terpheny	1		50.2	50.0	100	70-135					

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: Enterprise-Devon Thistle 28 CTB

Work Orders: 533104,

Sample: 533104-002 S / MS

Project ID: 700348.343.01

Lab Batch #: 997905

Sample. 333104-002 57 Mic

Batch: 1 Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/12/16 20:17	SURROGATE RECOVERY STUDY							
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
		Analytes			[D]					
1,4-Difluorol	benzene		0.0336	0.0300	112	80-120				
4-Bromofluo	robenzene		0.0319	0.0300	106	80-120				

Units: mg/kg **Date Analyzed:** 07/13/16 22:12 SURROGATE RECOVERY STUDY **Amount** True Control TPH by SW 8015B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 105 99.6 105 70-135 o-Terphenyl 49.8 99 70-135 49.1

Units: mg/kg Date Analyzed: 07/12/16 20:35 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

Units:	mg/kg	Date Analyzed: 07/13/16 22:39	SURROGATE RECOVERY STUDY								
	TP	H by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooc	tane		102	99.6	102	70-135					
o-Terpheny	·1		45.4	49.8	91	70-135					

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



mg/kg

Units:

BS / BSD Recoveries

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY



Project Name: Enterprise-Devon Thistle 28 CTB

Work Order #: 533104 Project ID: 700348.343.01

Analyst: PJB Date Prepared: 07/12/2016 Date Analyzed: 07/12/2016

 Lab Batch ID:
 997905
 Sample:
 710874-1-BKS
 Batch #:
 1
 Matrix:
 Solid

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00150	0.100	0.105	105	0.100	0.110	110	5	70-130	35	
Toluene	< 0.00200	0.100	0.104	104	0.100	0.107	107	3	70-130	35	
Ethylbenzene	< 0.00200	0.100	0.0984	98	0.100	0.0992	99	1	71-129	35	
m,p-Xylenes	< 0.00200	0.200	0.198	99	0.200	0.199	100	1	70-135	35	
o-Xylene	< 0.00300	0.100	0.0933	93	0.100	0.0934	93	0	71-133	35	

Analyst: MNR **Date Prepared:** 07/14/2016 **Date Analyzed:** 07/14/2016

Lab Batch ID: 998100 Sample: 710952-1-BKS Batch #: 1 Matrix: Solid

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[2]	[0]	[2]	[12]	resure [1]	[0]				
Chloride	<10.0	250	254	102	250	234	94	8	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



mg/kg

Units:

BS / BSD Recoveries



Project Name: Enterprise-Devon Thistle 28 CTB

Project ID: 700348.343.01 **Work Order #:** 533104

Date Prepared: 07/13/2016 **Date Analyzed:** 07/13/2016 **Analyst:** PJB

Sample: 710924-1-BKS **Lab Batch ID:** 998051 **Batch #:** 1 Matrix: Solid

Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
TPH by SW 8015B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Analytes		1-1	[-,	1-1	[2]		["					
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	886	89	1000	853	85	4	70-135	35		
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	993	99	1000	959	96	3	70-135	35		

Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries





Work Order #: 533104 998100 Lab Batch #:

Project ID: 700348.343.01

Date Prepared: 07/14/2016

Analyst: MNR

Date Analyzed: 07/15/2016 **QC- Sample ID:** 533260-002 S

Batch #: Matrix: Soil

Repo	orting Units: mg/kg	MAT	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
	Inorganic Anions by EPA 300	Parent Sample Result	Sample Spike Result %R Limits Flag [A] [B] [C] [D] %R				
	Analytes	[A]	[B]				
Chl	loride	113	250	351	95	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Page 38 of 96

Project Name: Enterprise-Devon Thistle 28 CTB

533104 Work Order #:

Project ID: 700348.343.01

Lab Batch ID:

997905

QC- Sample ID: 533104-002 S

Batch #:

Matrix: Soil

Date Analyzed:

07/12/2016

Date Prepared: 07/12/2016

Analyst: PJB

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00150	0.0998	0.0900	90	0.0998	0.0816	82	10	70-130	35	
Toluene	0.00248	0.0998	0.0926	90	0.0998	0.0839	82	10	70-130	35	
Ethylbenzene	0.00279	0.0998	0.0886	86	0.0998	0.0802	78	10	71-129	35	
m,p-Xylenes	0.0122	0.200	0.185	86	0.200	0.170	79	8	70-135	35	
o-Xylene	0.00936	0.0998	0.0924	83	0.0998	0.0843	75	9	71-133	35	

Lab Batch ID:

998051

QC- Sample ID: 533186-003 S

Batch #:

Matrix: Soil

Date Analyzed:

07/13/2016

Date Prepared: 07/13/2016

Analyst: PJB

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW 8015B	Parent Sample Result	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C10 Gasoline Range Hydrocarbons	<14.9	996	806	81	996	791	79	2	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<14.9	996	808	81	996	833	84	3	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Sample Duplicate Recovery



Project Name: Enterprise-Devon Thistle 28 CTB

Work Order #: 533104

Lab Batch #: 998100 **Project ID:** 700348.343.01

 Date Analyzed:
 07/15/2016 00:29
 Date Prepared:
 07/14/2016
 Analyst: MNR

 QC- Sample ID:
 533260-002 D
 Batch #:
 1
 Matrix:
 Soil

SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
113	109	4	20	
	Parent Sample Result [A]	Parent Sample Result [A] Sample Duplicate Result [B]	Parent Sample Result [A] Sample Duplicate Result [B]	Result Duplicate RPD Limits [A] Result (B)

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit



HAIN OF CUSTOD

office: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously neg	conditions of service unles	s XENCO's standard terms and	s affiliates, subcontractors and assign	client company to XENCO Laboratories and its	ites a valid purchase order from	shment of samples constitu	olice: Signature of this document and relinquis
Cool Temp: 6.0 KID.R-0	able On Ice	Preserved where applicable	Custody Seal #	Received By:	Date Time:		neimquisned by:
	Received By:	Date Time:	Relinquished By:	3 M Q	2/1/1/10		Wilker
	Received By:	Date Time:	Relinquished By:	Received By:	7.10 1000		601
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	FED-EX / UPS: Tracking #				3:00 pm	Lab, if received by	TAT Starts Day received by Lab, if received by 3:00 pm
				TRRP Checklist			3 Day EMERGENCY
			UST / RG -411	Level 3 (CLP Forms)	AT	Contract TAT	2 Day EMERGENCY
			TRRP Level IV	Level III Std QC+ Forms		7 Day TAT	Next Day EMERGENCY
			Level IV (Full Data Pkg /raw data)	Level II Std QC		5 Day TAT	Same Day TAT
	Notes:		ation	Data Deliverable Information			Turnaround Time (Business days)
							10
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ried Continents		× × ×	×	1515 5	-0-7- F		
		TF B	HNO3 H2SO4 NaOH NaHSO MEOH	Time Matrix bottles # of HCI NaOH/2 Acetate	Sample Depth Date		
		PH TE I	served		Control	of Collection	No. Field ID / Point of Collection
WW= Waste Water		X X			Callinglia	100	
0=011		30		9	TO NOTICE		Samplers's Name:
W= Waste Water W= Wine		CS		South Color		-	Preject Contact:
SW = Surface water		0-0		To:	io: Invoice To:	Phone No:	PONTOCO!
GW =Ground Water DW = Drinking Water		RC		S CO NX		×	midland !
A= Air S = SoiVSed/Solid) 0-	Thistle 18 CT	Project Location:	Project Location		Company Address:
Matrix Codes	formation	Analytical Information	200348,343.01	nformation		on	Client / Reporting Information
533104	Xenco Job#	Xenco Quote #		www.xenco.com		Texas (210-509-3334	Service Center - San Antonio, Texas (210-509-3334)
Tampa, Florida (813-620-2000)	-449-8800)	Norcross, Georgia (770-449-8800)					Sonies (214-902-0300)
Lakeland, Florida (863-646-8526)	1800)	Odessa, Texas (432-563-1800)					Pallas Tavas (914 000 0900)



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Talon/LPE Co.

Work Order #: 533104

Date/ Time Received: 07/11/2016 11:10:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used: R8

;	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		6	
#2 *Shipping container in good condition?		N/A	
#3 *Samples received on ice?		Yes	
#4 *Custody Seal present on shipping contain	ner/ cooler?	N/A	
#5 *Custody Seals intact on shipping contain	er/ cooler?	N/A	
#6 Custody Seals intact on sample bottles?		N/A	
#7 *Custody Seals Signed and dated?		N/A	
#8 *Chain of Custody present?		Yes	
#9 Sample instructions complete on Chain of	Custody?	Yes	
#10 Any missing/extra samples?		No	
#11 Chain of Custody signed when relinquish	ned/ received?	Yes	
#12 Chain of Custody agrees with sample lab	pel(s)?	Yes	
#13 Container label(s) legible and intact?		Yes	
#14 Sample matrix/ properties agree with Ch	ain of Custody?	Yes	
#15 Samples in proper container/ bottle?		Yes	
#16 Samples properly preserved?		Yes	
#17 Sample container(s) intact?		Yes	
#18 Sufficient sample amount for indicated to	est(s)?	Yes	
#19 All samples received within hold time?		Yes	
#20 Subcontract of sample(s)?		No	
#21 VOC samples have zero headspace (les	s than 1/4 inch bubble)?	N/A	
#22 <2 for all samples preserved with HNO3, samples for the analysis of HEM or HEM-SGT analysts.		N/A	
#23 >10 for all samples preserved with NaAs	O2+NaOH, ZnAc+NaOH?	N/A	

* Must be o Analyst:	ompleted for after-hours de	livery of samples prior to placing in PH Device/Lot#:	n the refrigerator
	Checklist completed by:	Mary Olegis Negron Mary Negron	Date: <u>07/12/2016</u>
	Checklist reviewed by:	Kelsey Brooks	Date: 07/12/2016

Analytical Report 532980

for Talon/LPE Co.

Project Manager: Brian Payton
Enterprise-Devon Thistle 28 CTB
700348.343.01
08-JUL-16

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





08-JUL-16

Project Manager: **Brian Payton Talon/LPE Co.**2901 S State Highway 349
Midland, TX 79706

Reference: XENCO Report No(s): 532980

Enterprise-Devon Thistle 28 CTBProject Address: Lea Co., New Mexico

Brian Payton:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 532980. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 532980 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Knus Roah

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 532980



Talon/LPE Co., Midland, TX

Enterprise-Devon Thistle 28 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-3	S	07-07-16 12:15	- 1 ft	532980-001
SS-4	S	07-07-16 12:30	- 2 ft	532980-002
SS-5	S	07-07-16 14:25	- 1 ft	532980-003

Version: 1.%



CASE NARRATIVE



Client Name: Talon/LPE Co.

Project Name: Enterprise-Devon Thistle 28 CTB

 Project ID:
 700348.343.01
 Report Date:
 08-JUL-16

 Work Order Number(s):
 532980
 Date Received:
 07/08/2016

Sample receipt non conformances and comments:



CASE NARRATIVE



Client Name: Talon/LPE Co.

Project Name: Enterprise-Devon Thistle 28 CTB

 Project ID:
 700348.343.01
 Report Date:
 08-JUL-16

 Work Order Number(s):
 532980
 Date Received:
 07/08/2016

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 532980

Talon/LPE Co., Midland, TX

Project Name: Enterprise-Devon Thistle 28 CTB



Project Id: Contact:

700348.343.01 Brian Payton

Project Location: Lea C

Lea Co., New Mexico

Date Received in Lab: Fri Jul-08-16 08:35 am

Report Date: 08-JUL-16

Project Manager: Kelsey Brooks

								1	
	Lab Id:	532980-0	001	532980-0	002	532980-0	003		
Analysis Requested	Field Id:	SS-3		SS-4		SS-5			
Anaiysis Requesieu	Depth:	1 ft		2 ft		1 ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Jul-07-16 1	2:15	Jul-07-16 1	2:30	Jul-07-16	14:25		
BTEX by EPA 8021B	Extracted:	Jul-08-16 1	0:00	Jul-08-16 1	0:00	Jul-08-16	0:00		
	Analyzed:	Jul-08-16 1	0:08	Jul-08-16 1	1:13	Jul-08-16	0:40		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		ND	0.00150	ND	0.00150	ND	0.00149		
Toluene		ND	0.00200	ND	0.00200	ND	0.00198		
Ethylbenzene		ND	0.00200	ND	0.00200	ND	0.00198		
m,p-Xylenes		ND	0.00200	ND	0.00200	ND	0.00198		
o-Xylene		ND	0.00300	ND	0.00299	ND	0.00298		
Total Xylenes		ND	0.00200	ND	0.00200	ND	0.00198		
Total BTEX		ND	0.00150	ND	0.00150	ND	0.00149		
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-08-16 1	0:00	Jul-08-16 1	0:00	Jul-08-16	0:00		
	Analyzed:	Jul-08-16 1	3:37	Jul-08-16 1	3:45	Jul-08-16	4:09		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		10.9	10.0	39.0	10.0	ND	10.0		
TPH by SW 8015B	Extracted:	Jul-08-16 (9:00	Jul-08-16 0	9:00	Jul-08-16 (9:00		
	Analyzed:	Jul-08-16 0	9:23	Jul-08-16 0	9:47	Jul-08-16	0:11		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons		ND	15.0	ND	15.0	ND	15.0		
C10-C28 Diesel Range Hydrocarbons		39.0	15.0	ND	15.0	ND	15.0		
Total TPH		39.0	15.0	ND	15.0	ND	15.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Kelsey Brooks Project Manager

Knis Roah



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	



Project Name: Enterprise-Devon Thistle 28 CTB

Work Orders: 532980,

ma/lea

Sample: 532980-001 / SMP

Project ID: 700348.343.01

Lab Batch #: 997703

I Inita.

Date Analyzed: 07/08/16 09:23

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 07/08/16 09:23	SU	Found [A] Amount [B] Recovery %R [D] 95.2 99.8 95	STUDY		
TPH by SW 8015B	Amount Found [A]	Amount		Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	95.2	99.8	95	70-135	
o-Terphenyl	45.8	49.9	92	70-135	

Units:	mg/kg	Date Analyzed: 07/08/16 09:47	SURROGATE RECOVERY STUDY					
	TP	H by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooc	ctane	Analy Cos	94.1	100	94	70-135		
o-Terpheny	yl		45.7	50.0	91	70-135		

Lab Batch #: 997704 **Sample:** 532980-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 07/08/16 10:08 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0300	0.0300	100	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 997703 Sample: 532980-003 / SMP Batch: 1 Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/08/16 10:11	SURROGATE RECOVERY STUDY						
	TPI	H by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooc	ctane	Time y eco	90.6	99.8	91	70-135			
o-Terpheny	yl		43.8	49.9	88	70-135			

Lab Batch #: 997704 **Sample:** 532980-003 / SMP **Batch:** 1 **Matrix:** Soil

Units:	mg/kg	Date Analyzed: 07/08/16 10:40	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorob	enzene	11mi y ves	0.0311	0.0300	104	80-120			
4-Bromofluor	robenzene		0.0311	0.0300	104	80-120			

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Version: 1.%

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Enterprise-Devon Thistle 28 CTB

Work Orders: 532980,

Project ID: 700348.343.01

Lab Batch #: 997704

Sample: 532980-002 / SMP

Matrix: Soil Batch: 1

Units:	mg/kg	Date Analyzed: 07/08/16 11:13	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluoro	benzene		0.0306	0.0300	102	80-120			
4-Bromoflu	orobenzene		0.0280	0.0300	93	80-120			

Lab Batch #: 997704 **Sample:** 710720-1-BLK / BLK Batch: 1 Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/07/16 17:15	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluor	obenzene		0.0300	0.0300	100	80-120			
4-Bromoflu	orobenzene		0.0294	0.0300	98	80-120			

Sample: 710747-1-BLK / BLK **Lab Batch #:** 997703 Batch: Matrix: Solid

Date Analyzed: 07/07/16 17:20 **Units:** mg/kg SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.2	100	98	70-135	
o-Terphenyl	48.3	50.0	97	70-135	

Lab Batch #: 997704 **Sample:** 710720-1-BKS / BKS Batch: Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/07/16 15:55	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluor	robenzene	Timery ees	0.0305	0.0300	102	80-120			
4-Bromofluorobenzene			0.0334	0.0300	111	80-120			

Batch: Lab Batch #: 997703 **Sample:** 710747-1-BKS / BKS Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/07/16 17:44	SURROGATE RECOVERY STUDY					
	TP	H by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooct	ane		115	100	115	70-135		
o-Terpheny	1		49.7	50.0	99	70-135		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Batch:

Project Name: Enterprise-Devon Thistle 28 CTB

Work Orders: 532980,

Sample: 710720-1-BSD / BSD

Project ID: 700348.343.01

Lab Batch #: 997704

Sample: /10/20-1-DSD / DSD

1 Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/07/16 16:11	SURROGATE RECOVERY STUDY					
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]			
1,4-Difluorol	benzene		0.0307	0.0300	102	80-120		
4-Bromofluorobenzene			0.0311	0.0300	104	80-120		

Lab Batch #: 997703 Sample: 710747-1-BSD/BSD Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 07/07/16 18:08 SURROGATE RECOVERY STUDY **Amount** True Control TPH by SW 8015B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 113 100 113 70-135 o-Terphenyl 48.4 50.0 97 70-135

Lab Batch #: 997704 **Sample:** 532800-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 07/07/16 16:27 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0342	0.0300	114	80-120	

Units:	mg/kg	Date Analyzed: 07/07/16 16:43	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluor	robenzene		0.0313	0.0300	104	80-120			
4-Bromoflu	uorobenzene		0.0326	0.0300	109	80-120			

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries



Project Name: Enterprise-Devon Thistle 28 CTB

Work Order #: 532980 **Project ID:** 700348.343.01

Date Prepared: 07/07/2016 **Date Analyzed:** 07/07/2016 **Analyst:** PJB

Lab Batch ID: 997704 Sample: 710720-1-BKS **Batch #:** 1 Matrix: Solid

Units: mg/kg		BLAN	K/BLANK S	SPIKE / I	BLANK S	SPIKE DUPI	LICATE	RECOVE	ERY STUD	ΣΥ	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[/1]	[B]	[C]	[D]	[E]	Result [F]	[G]	76	/ UI	/ UKI D	

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00150	0.100	0.0920	92	0.100	0.0975	98	6	70-130	35	
Toluene	< 0.00200	0.100	0.0901	90	0.100	0.0953	95	6	70-130	35	
Ethylbenzene	< 0.00200	0.100	0.0937	94	0.100	0.0982	98	5	71-129	35	
m,p-Xylenes	< 0.00200	0.200	0.193	97	0.200	0.202	101	5	70-135	35	
o-Xylene	< 0.00300	0.100	0.0954	95	0.100	0.0994	99	4	71-133	35	

Date Prepared: 07/08/2016 **Date Analyzed:** 07/08/2016 **Analyst:** MNR

Lab Batch ID: 997748 **Batch #:** 1 Matrix: Solid **Sample:** 710772-1-BKS

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.0	250	242	97	250	259	104	7	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



mg/kg

Units:

BS / BSD Recoveries

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY



Project Name: Enterprise-Devon Thistle 28 CTB

Work Order #: 532980 Project ID: 700348.343.01

Analyst: ARM Date Prepared: 07/07/2016 Date Analyzed: 07/07/2016

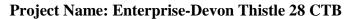
Lab Batch ID: 997703Sample: 710747-1-BKSBatch #: 1Matrix: Solid

TPH by SW 8015B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	958	96	1000	917	92	4	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	1010	101	1000	986	99	2	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries





Work Order #: 532980 Lab Batch #: 997748

Date Prepared: 07/08/2016

Project ID: 700348.343.01

Date Analyzed: 07/08/2016 **QC- Sample ID:** 532894-001 S

Analyst: MNR

Batch #:

Matrix: Soil

Reporting Units: mg/kg

Reporting Units: mg/kg	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	1750	2500	4120	95	80-120	

Lab Batch #: 997748

Date Analyzed: 07/08/2016 **QC- Sample ID:** 533040-001 S **Date Prepared:** 07/08/2016

Analyst: MNR

Batch #:

Matrix: Soil

Reporting Units: mg/kg	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	<10.0	250	209	84	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Version: 1.%



Form 3 - MS / MSD Recoveries



Page 55 of 96

Project Name: Enterprise-Devon Thistle 28 CTB

532980 Work Order #:

997704

mg/kg

QC- Sample ID: 532800-001 S

Batch #:

Matrix: Soil

Lab Batch ID: **Date Analyzed:**

Date Prepared: 07/07/2016

Project ID: 700348.343.01

Reporting Units:

07/07/2016

Analyst: PJB

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00150	0.0998	0.0633	63	0.0998	0.0558	56	13	70-130	35	X
Toluene	< 0.00200	0.0998	0.0602	60	0.0998	0.0526	53	13	70-130	35	X
Ethylbenzene	< 0.00200	0.0998	0.0522	52	0.0998	0.0470	47	10	71-129	35	X
m,p-Xylenes	< 0.00200	0.200	0.118	59	0.200	0.102	51	15	70-135	35	X
o-Xylene	< 0.00299	0.0998	0.0643	64	0.0998	0.0557	56	14	71-133	35	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Sample Duplicate Recovery



Project Name: Enterprise-Devon Thistle 28 CTB

Work Order #: 532980

Lab Batch #: 997748 **Project ID:** 700348.343.01

 Date Analyzed:
 07/08/2016 13:06
 Date Prepared:
 07/08/2016
 Analyst: MNR

 QC- Sample ID:
 532894-001 D
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: mg/kg	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte		[D]			
Chloride	1750	1870	7	20	

Lab Batch #: 997748

 Date Analyzed:
 07/08/2016 14:55
 Date Prepared:
 07/08/2016
 Analyst: MNR

 QC- Sample ID:
 533040-001 D
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: mg/kg	SAMPLE A	SAMPLE	DUPLIC	ATE REC	OVERY
Inorganic Anions by EPA 300/300.1 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	<10.0	<10.0	0	20	U

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

Version: 1.%

Page 15 of 17

Final 1.000

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Dallas, Texas (214-902-0300)

CHAIN OF CUSTODY

Odessa, Texas (432-563-1800)

Lakeland, Florida (863-646-8526)

5 Custody Seal # Preserved where applicable On ice C./F.0 & C. Orrected Tenns.	able	Preserved where applicable	Custody Seal #	Heceived By:	Cate IIIIe:		o primature of this decrease
	4		4	3	Date Time:		Relinquished by:
ਰੈਪ-	Received Rv	Date Time:	Relinquished By:	Received By:	Date Time:		1
By:	Received By:	Date Time:	Relinquished By:	Sis negatived by:	7-8-16 \$		Relinguished by:
# 611	Butter of O. Hacking #		E POSSESSION, INCLUDING COURIER	Data Time: Data Time:	Date Time:	SAMPLE CUSTOD	Relinquished by Sampler:
	EX / IIPS: Trackin				00 pm	by Lab, if received by 3:0	TAT Starts Day received by Lab, if received by 3:00 pm
				TRRP Checklist			3 Day EMERGENCY
			UST / RG -411	Level 3 (CLP Forms)		Contract TAT	_ coay emenceNcy
			TRRP Level IV	Level III Std QC+ Forms		DayTAT	O DESCRIPTION OF THE PROPERTY
		data)	Level IV (Full Data Pkg /raw data)	Level II Std QC		5 Day IAI	Next Day EMERGENCY
	Notes:		mation	Data Deliverable Information			Same Day TAT
						s days)	Turnaround Time (Business days)
							*
		X '	< >	1425	1, 0		55.5
		× 7 × 7 × >	× .	1230	تم		
Field Comments		25	H	\$ (S)	1 70		000
		3T.	cetate NO3 2SO4 aOH aHSO4 EOH	Time Matrix bottles ICI	Sample Date		
WW= Waste Water		EX	Number of preserved bottles		Collection	Field ID / Point of Collection	No. Field ID / Po
0=0		G				00	80.40 PA
W= Waste Water		R:		PO Number:	PON	NON	mplers's Name:
SL = Sludge		0-	•	かつのうたらへ	1	excon.com	Project Contact:
P = Product		7		Invoice To:	Invoi	trionipe/smone No:	らいってんか
GW =Ground Water DW = Drinking Water			Mexico	ex Co Ney	7		Email:
S = Soil/Sed/Solid		(C	INISTE 25 CITS	Project Location:	Proje	Z	Company Address:
)	10 Cho 9450	Project Name/Number:	T P		Company, Name / Branch
Matrix Codes	Analytical Information	Analytical	9	Broker Incometic DOOPLO		nation	Client / Reporting Information
532960	Valido God #						
	0-449-6600)	Xenco Quote # You		HOU COURT MINIM		iio, Texas (210-509-3334)	Service Center - San Antonio, Texas (210-509-3334)
PARAMETER BANK SECT BENEZO		Norrace Convole (77	2220				



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Talon/LPE Co.

Date/ Time Received: 07/08/2016 08:35:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 532980

Temperature Measuring device used: R8

Work Order #. 332300		
	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		2.6
#2 *Shipping container in good condition	?	N/A
#3 *Samples received on ice?		Yes
#4 *Custody Seal present on shipping co	ontainer/ cooler?	N/A
#5 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#6 Custody Seals intact on sample bottle	es?	N/A
#7 *Custody Seals Signed and dated?		N/A
#8 *Chain of Custody present?		Yes
#9 Sample instructions complete on Cha	in of Custody?	Yes
#10 Any missing/extra samples?		No
#11 Chain of Custody signed when reline	quished/ received?	Yes
#12 Chain of Custody agrees with samp	le label(s)?	Yes
#13 Container label(s) legible and intact	?	Yes
#14 Sample matrix/ properties agree with	n Chain of Custody?	Yes
#15 Samples in proper container/ bottle?		Yes
#16 Samples properly preserved?		Yes
#17 Sample container(s) intact?		Yes
#18 Sufficient sample amount for indicat	ed test(s)?	Yes
#19 All samples received within hold time	e?	Yes
#20 Subcontract of sample(s)?		No
#21 VOC samples have zero headspace		N/A
#22 <2 for all samples preserved with HI samples for the analysis of HEM or HEM-		N/A
analysts.	COT Which are vermed by the	
#23 >10 for all samples preserved with N	laAsO2+NaOH, ZnAc+NaOH?	N/A
* Must be completed for after-hours de	livery of samples prior to placing in	n the refrigerator
Analyst:	PH Device/Lot#:	
	no o o	
Checklist completed by:	Mary Olean Negron Mary Negron	Date: 07/08/2016
	n/ M	
Checklist reviewed by:	Mus Moah Kelsey Brooks	Date: 07/08/2016

Analytical Report 532981

for Talon/LPE Co.

Project Manager: Brian Payton
Enterprise-Devon Thistle 28 CTB
700348.343.01
14-JUL-16

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





14-JUL-16

Project Manager: **Brian Payton Talon/LPE Co.**2901 S State Highway 349
Midland, TX 79706

Reference: XENCO Report No(s): 532981

Enterprise-Devon Thistle 28 CTBProject Address: Lea Co., New Mexico

Brian Payton:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 532981. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 532981 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Knus Roah

Project Manager

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Sample Cross Reference 532981



Talon/LPE Co., Midland, TX

Enterprise-Devon Thistle 28 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-6	S	07-07-16 14:45	- 3 In	532981-001



CASE NARRATIVE



Client Name: Talon/LPE Co.

Project Name: Enterprise-Devon Thistle 28 CTB

 Project ID:
 700348.343.01
 Report Date:
 14-JUL-16

 Work Order Number(s):
 532981
 Date Received:
 07/08/2016

Sample receipt non conformances and comments:



CASE NARRATIVE



Client Name: Talon/LPE Co.

Project Name: Enterprise-Devon Thistle 28 CTB

 Project ID:
 700348.343.01
 Report Date:
 14-JUL-16

 Work Order Number(s):
 532981
 Date Received:
 07/08/2016

Sample receipt non conformances and comments per sample:

None



700348.343.01

Project Id:

Certificate of Analysis Summary 532981

Talon/LPE Co., Midland, TX

Project Name: Enterprise-Devon Thistle 28 CTB



Date Received in Lab: Fri Jul-08-16 08:35 am

Report Date: 14-JUL-16

Contact: Brian Payton **Project Location:** Lea Co., New Mexico Project Manager: Kelsey Brooks

	Lab Id:	532981-001			
Analysis Requested	Field Id:	SS-6			
Anaiysis Kequesiea	Depth:	3 In			
	Matrix:	SOIL			
	Sampled:	Jul-07-16 14:45			
BTEX by EPA 8021B	Extracted:	Jul-12-16 18:20			
SUB: T104704534-15-1	Analyzed:	Jul-13-16 02:21			
	Units/RL:	mg/kg RL			
Benzene		0.00259 0.00198			
Toluene		0.0316 0.00198			
Ethylbenzene		0.0102 0.00198			
m,p-Xylenes		0.0370 0.00396			
o-Xylene		0.0146 0.00198			
Total Xylenes		0.0516 0.00198			
Total BTEX		0.0960 0.00198			
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-13-16 19:45			
	Analyzed:	Jul-14-16 13:34			
	Units/RL:	mg/kg RL			
Chloride		1610 100			
TPH by SW 8015B	Extracted:	Jul-08-16 09:00			
Analyzed:		Jul-08-16 10:35			
	Units/RL:	mg/kg RL			
C6-C10 Gasoline Range Hydrocarbons		39.4 15.0			
C10-C28 Diesel Range Hydrocarbons		1470 15.0			
Total TPH		1530 15.0			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Knis Roah Kelsey Brooks Project Manager



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	



Project Name: Enterprise-Devon Thistle 28 CTB

Work Orders: 532981,

... _ /1_ _

Sample: 532981-001 / SMP

Project ID: 700348.343.01

Lab Batch #: 997703

T T-- 24 -- -

Data Analysis de 07/09/16 10:25

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 07/08/16 10:35 SURROGATE RECOVERY STUDY							
TPH by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	89.3	99.9	89	70-135			
o-Terphenyl	41.3	50.0	83	70-135			

Units: mg/kg Date Analyzed: 07/13/16 02:21 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Recovery Limits Amount Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0319 0.0300 106 80-120 4-Bromofluorobenzene 0.0324 0.0300 108 80-120

Lab Batch #: 997703 Sample: 710747-1-BLK / BLK Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 07/07/16 17:20 SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.2	100	98	70-135	
o-Terphenyl	48.3	50.0	97	70-135	

Lab Batch #: 997981 Sample: 710923-1-BLK / BLK Batch: 1 Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/12/16 19:18	SURROGATE RECOVERY STUDY						
	вте	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
		Analytes			נען				
1,4-Difluor	robenzene		0.0295	0.0300	98	80-120			
4-Bromofluorobenzene			0.0321	0.0300	107	80-120			

Lab Batch #: 997703 Sample: 710747-1-BKS / BKS Batch: 1 Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/07/16 17:44	SURROGATE RECOVERY STUDY						
	TP	H by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooct	ane		115	100	115	70-135			
o-Terpheny	1		49.7	50.0	99	70-135			

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Enterprise-Devon Thistle 28 CTB

Work Orders: 532981,

Sample: 710923-1-BKS / BKS

Project ID: 700348.343.01

Lab Batch #: 997981

Matrix: Solid Batch: 1

Units: mg/	kg	Date Analyzed: 07/12/16 18:27	SURROGATE RECOVERY STUDY					
	·	EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
	An	alytes			[2]			
1,4-Difluorobenzene	•		0.0355	0.0300	118	80-120		
4-Bromofluorobenzene			0.0338	0.0300	113	80-120		

Lab Batch #: 997703 **Sample:** 710747-1-BSD / BSD Batch: Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/07/16 18:08	SU	RROGATE RI	ECOVERY S	STUDY	
	TP	H by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooct	tane		113	100	113	70-135	
o-Terpheny	·1		48.4	50.0	97	70-135	

Sample: 710923-1-BSD / BSD Lab Batch #: 997981 Batch: Matrix: Solid

Date Analyzed: 07/12/16 18:44 **Units:** mg/kg SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0353	0.0300	118	80-120	
4-Bromofluorobenzene	0.0325	0.0300	108	80-120	

Sample: 532903-001 S / MS **Lab Batch #:** 997981 Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/12/16 19:52 SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]			
1,4-Difluor	robenzene		0.0339	0.0300	113	80-120		
4-Bromoflu	uorobenzene		0.0316	0.0300	105	80-120		

Batch: Lab Batch #: 997981 Sample: 532903-001 SD / MSD Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/12/16 20:10	SURROGATE RECOVERY STUDY					
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluoro	benzene		0.0350	0.0300	117	80-120		
4-Bromofluo	orobenzene		0.0326	0.0300	109	80-120		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries



Project Name: Enterprise-Devon Thistle 28 CTB

Work Order #: 532981 Project ID: 700348.343.01

Analyst: FOV Date Prepared: 07/12/2016 Date Analyzed: 07/12/2016

Lab Batch ID: 997981 **Sample:** 710923-1-BKS **Batch #:** 1 **Matrix:** Solid

U	Inits:	mg/kg	K SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
		BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Analy	ytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Г	Benzene		< 0.00200	0.100	0.0845	85	0.100	0.0882	88	4	70-130	35	

	[A]	Added	Result	%R	Added	Duplicate	%R	%	%R	%RPD	riag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene	< 0.00200	0.100	0.0845	85	0.100	0.0882	88	4	70-130	35	
Toluene	< 0.00200	0.100	0.0802	80	0.100	0.0840	84	5	70-130	35	
Ethylbenzene	< 0.00200	0.100	0.0811	81	0.100	0.0838	84	3	71-129	35	
m,p-Xylenes	< 0.00400	0.200	0.166	83	0.200	0.172	86	4	70-135	35	
o-Xylene	< 0.00200	0.100	0.0862	86	0.100	0.0883	88	2	71-133	35	

Analyst: MNR **Date Prepared:** 07/13/2016 **Date Analyzed:** 07/14/2016

Lab Batch ID: 998070 Sample: 710940-1-BKS Batch #: 1 Matrix: Solid

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.0	250	253	101	250	261	104	3	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Units:

BS / BSD Recoveries



Project Name: Enterprise-Devon Thistle 28 CTB

Project ID: 700348.343.01 Work Order #: 532981

Date Prepared: 07/07/2016 **Date Analyzed:** 07/07/2016 Analyst: ARM

Lab Batch ID: 997703 Sample: 710747-1-BKS **Batch #:** 1 Matrix: Solid

Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
TPH by SW 8015B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]						
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	958	96	1000	917	92	4	70-135	35			
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	1010	101	1000	986	99	2	70-135	35			

Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries





Work Order #: 532981 998070 Lab Batch #:

Date Analyzed: 07/14/2016

Project ID: 700348.343.01

Date Prepared: 07/13/2016

Analyst: MNR

QC- Sample ID: 532978-001 S Reporting United mg/kg

Batch #: Matrix: Soil

keporting Units: mg/kg		RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	40600	50000	101000	121	80-120	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Page 71 of 96

Project Name: Enterprise-Devon Thistle 28 CTB

532981 Work Order #:

997981

QC- Sample ID: 532903-001 S

Batch #:

Matrix: Soil

Project ID: 700348.343.01

Lab Batch ID: **Date Analyzed:**

07/12/2016

Date Prepared: 07/12/2016

Analyst: FOV

Reporting Units: mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]	[0]	[D]	[E]	result [1]	[G]	, •	/011	/ URI D	
Benzene	< 0.00199	0.0996	0.0846	85	0.100	0.0843	84	0	70-130	35	
Toluene	< 0.00199	0.0996	0.0797	80	0.100	0.0802	80	1	70-130	35	
Ethylbenzene	< 0.00199	0.0996	0.0799	80	0.100	0.0804	80	1	71-129	35	
m,p-Xylenes	< 0.00398	0.199	0.162	81	0.200	0.163	82	1	70-135	35	
o-Xylene	< 0.00199	0.0996	0.0840	84	0.100	0.0845	85	1	71-133	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Sample Duplicate Recovery



Project Name: Enterprise-Devon Thistle 28 CTB

Work Order #: 532981

Lab Batch #: 998070 **Project ID:** 700348.343.01

 Date Analyzed:
 07/14/2016 12:55
 Date Prepared:
 07/13/2016
 Analyst: MNR

 QC- Sample ID:
 532978-001 D
 Batch #:
 1
 Matrix:
 Soil

Reporting Units: mg/kg	SAMPLE / SAMPLE DUPLICATE RECOVE						
	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag		
Analyte		[B]					
Chloride	40600	36600	10	20			

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit



CHAIN OF CUSTODY

service unless previously net orrected Temp: 2.66	standard terms and conditions of s	iliates, subcontractors and assigns XENCO's	n client company to XENCO Laboratories and its affi	a valid purchase order fro	and relinquishment of samples constitutes	Notice: Signature of this document
Received By: Custody Seal # Preserved where applicable On ice Coole Temp: 5 Custody Seal # Preserved where applicable On ice Coole Temp: IR ID:R-8	erved where applicable	Custody Seal # Prese	Received By: 5	Date Time:		Relinquished by:
Racelved By:	Date Time: Receiv	Relinquished By:	Received By:	Date Time:		Helinquisned by:
Received By:	te Time:	Relinquished By:	S1 Per Ned By:	7-8-16 08351		1 8 Type
	RY	SSESSION, INCLUDING COURIER DELIVE	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY	Y MUST BE DOCUMENT	SAMPLE CUSTOR	
acking #	FED-EX / UPS: Tracking #			00 pm	TAT Starts Day received by Lab, if received by 3:00 pm	TAT Starts Day rece
			TRRP Checklist			3 Day EMERGENCY
		UST / RG -411	Level 3 (CLP Forms)		Contract TAT	2 Day EMERGENCY
		TRRP Level IV	Level III Std QC+ Forms		7 Day TAT	Next Day EMERGENCY
		Level IV (Full Data Pkg /raw data)	Level II Std QC		5 Day TAT	Same Day TAT
	Notes:		Data Deliverable Information		Jusiness days)	Turnaround Time (Business days)
						9
						8
						7
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						4
						ω
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	X	××	144531	3" 7746		1 282-6
Field Comments	CI	TPH	Time Matrix bottles HC	Sample Depth Date	Field ID / Point of Collection	No. Field ID
WW= Waste Water		Number of preserved bottles		Gollection		
O II Oii			nber:	PO Number:	107	Samplers's Name:
WW= Waste Water W = Wine		20	teconoting	16	97	Project Contact:
SW = Surface water SL = Sludge		5	*	Invoice To:	Phone No:	Email:
GW =Ground Water DW = Drinking Water		B COR	Co New	Les	マ大	Midler
A= Air S = Soil/Sed/Solid			or 150 - De	Project	1.7	Company Name / Branch:
Matrix Codes	Alaiyuda IIIOIII au	10,548,343,01	Project Information 1003 i		formation	Client / Reporting Information
092	Analytical Information					
Xenco Job# 73000		Xenco Quote #	www.xenco.com		Service Center - San Antonio, Texas (210-509-3334)	Service Center - San Aı
Tampa, Florida (813-620-2000)	Norcross, Georgia (770-449-8800)	Norcross			0300)	Dallas, Texas (214-902-0300)
Lakeland, Florida (863-646-8526)	Odessa, Texas (432-563-1800)	Odessa,			0-4200)	Stafford, Texas (281-240-4200)



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Talon/LPE Co.

Date/ Time Received: 07/08/2016 08:35:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 532981

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments							
#1 *Temperature of cooler(s)?	•	2.6							
#2 *Shipping container in good condition	n?	N/A							
#3 *Samples received on ice?		Yes							
#4 *Custody Seal present on shipping co	ontainer/ cooler?	N/A							
#5 *Custody Seals intact on shipping co		N/A							
#6 Custody Seals intact on sample bottle		N/A							
#7 *Custody Seals Signed and dated?		N/A							
#8 *Chain of Custody present?		Yes							
#9 Sample instructions complete on Cha	ain of Custody?	Yes							
#10 Any missing/extra samples?		No							
#11 Chain of Custody signed when reline	quished/ received?	Yes							
#12 Chain of Custody agrees with samp	le label(s)?	Yes							
#13 Container label(s) legible and intact	?	Yes							
#14 Sample matrix/ properties agree with	h Chain of Custody?	Yes							
#15 Samples in proper container/ bottle?	?	Yes							
#16 Samples properly preserved?		Yes							
#17 Sample container(s) intact?		Yes							
#18 Sufficient sample amount for indicat	red test(s)?	Yes							
#19 All samples received within hold tim	e?	Yes							
#20 Subcontract of sample(s)?		No							
#21 VOC samples have zero headspace	e (less than 1/4 inch bubble)?	N/A							
#22 <2 for all samples preserved with HI samples for the analysis of HEM or HEM analysts.		N/A							
#23 >10 for all samples preserved with N	NaAsO2+NaOH, ZnAc+NaOH?	N/A							
* Must be completed for after-hours delivery of samples prior to placing in the refrigerator Analyst: PH Device/Lot#:									
Checklist completed by:	Mary Olexis Region Mary Negron	Date: <u>07/08/2016</u>							
Checklist reviewed by:	Kniskoah	Date: 07/08/2016							

Kelsey Brooks

Analytical Report 536919

for Talon/LPE Co.

Project Manager: Nathan Callicoatte
Thistle 28
700348.343.01
23-SEP-16

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400) Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



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23-SEP-16

Project Manager: Nathan Callicoatte

Talon/LPE Co.

2901 S State Highway 349 Midland, TX 79706

Reference: XENCO Report No(s): 536919

Thistle 28

Project Address: Lea Co. NM

Nathan Callicoatte:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 536919. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 536919 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Knus Koah

Project Manager

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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 536919



Talon/LPE Co., Midland, TX

Thistle 28

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-6B	S	09-15-16 12:30	- 2 In	536919-001
SS-6C	S	09-15-16 12:45	- 5 In	536919-002
SS-6D	S	09-15-16 13:00	- 5 ft	536919-003



CASE NARRATIVE



Client Name: Talon/LPE Co. Project Name: Thistle 28

 Project ID:
 700348.343.01
 Report Date:
 23-SEP-16

 Work Order Number(s):
 536919
 Date Received:
 09/16/2016

Sample receipt non conformances and comments:



CASE NARRATIVE



Client Name: Talon/LPE Co. Project Name: Thistle 28

 Project ID:
 700348.343.01
 Report Date:
 23-SEP-16

 Work Order Number(s):
 536919
 Date Received:
 09/16/2016

Sample receipt non conformances and comments per sample:

None



Project Location:

Certificate of Analysis Summary 536919

Talon/LPE Co., Midland, TX

Project Name: Thistle 28



Project Id: 700348.343.01

Lea Co. NM

Contact: Nathan Callicoatte

Date Received in Lab: Fri Sep-16-16 08:30 am

Report Date: 23-SEP-16

Project Manager: Kelsey Brooks

	Lab Id:	536919-0	536919-001		02	536919-00)3		
Analysis Requested	Field Id:	SS-6B		SS-6C		SS-6D			
Anatysis Requestea	Depth:	2 In		5 In		5 ft			
	Matrix:	SOIL	SOIL			SOIL			
	Sampled:	ed: Sep-15-16 12:30		Sep-15-16 12:45		Sep-15-16 13:00			
Inorganic Anions by EPA 300/300.1	Extracted:	Sep-22-16 09:00		Sep-22-16 09:00		Sep-22-16 09:00			
	Analyzed:	Sep-22-16 12:51		Sep-22-16 13:14		Sep-22-16 13:22			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		41.8	10.0	282	10.0	ND	10.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Mus Hoah

Kelsey Brooks



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	
	(281) 240-4200 (214) 902 0300 (210) 509-3334 (432) 563-1800



BS / BSD Recoveries



Project Name: Thistle 28

Work Order #: 536919 Project ID: 700348.343.01

Analyst: MNR Date Prepared: 09/22/2016 Date Analyzed: 09/22/2016

Units: mg/kg		BLAN	K /BLANK S	SPIKE / 1	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUD	PΥ	
Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	<10.0	250	244	98	250	238	95	2	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Page 84 of 96

Project Name: Thistle 28

Work Order #: 536919

Project ID: 700348.343.01

Lab Batch ID:

3000568

QC- Sample ID: 536919-001 S

Batch #:

Matrix: Soil

Matrix: Soil

Date Analyzed:

09/22/2016

Date Prepared: 09/22/2016

Analyst: MNR

Reporting Units:

Reporting Units:

mg/kg

mg/kg

Analyst: Mini

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Sample %R	Added	Duplicate Spiked Sample Result [F]	%R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
Chloride	41.8	250	299	103	250	292	100	2	90-110	20	

Lab Batch ID: 3000568 **QC- Sample ID:** 537017-001 S **Batch #:** 1

Date Analyzed: 09/22/2016 **Date Prepared:** 09/22/2016

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analyst: MNR

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	1900	1250	3070	94	1250	3040	91	1	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



CHAIN OF CUSTODY

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of sen 8 Samplers's Name: Project Contact: Email: 1211: (32/K@/2/2/) Phone No. Company Name / Branch: Same Day TAT 3 Day EMERGENCY Next Day EMERGENCY 2 Day EMERGENCY Service Center - San Antonio, Texas (210-509-3334) Dallas, Texas (214-902-0300) TAT Starts Day received by Lab, if received by 3:00 pm Client / Reporting Information 25-60 55-60 55-6B Turnaround Time (Business days) Newher (Field ID / Point of Collection Natha Callinate DAOI HUY 345 TolorLPE (2/1/ Jost Hx) Contract TAT 7 Day TAT S Day TAT 432 3492468 Sete Time: وَي S Received By: 5/16 PO Number Project Name/Number: Received By: 300 She ्रह् Time 200 TRRP Checklist Level 3 (CLP Forms) Level III Std QC+ Forms Level II Std QC Project Information 700348, 343,01 Thiste 38 Data Deliverable Information # of HCI NaOH/Zn Acetate HNO3 Custody Seal # SESSION, INCLUDING COURIER DELIVERY TRRP Level IV Level IV (Full Data Pkg /raw data) UST / RG -411 меон Chlorides Odessa, Texas (432-563-1800) Norcross, Georgia (770-449-8800) Preserved where applicable Date Time Date Time: FED-EX / UPS: Tracking # Received By: Received By: Xenco Job # Lakeland, Florida (863-646-8526) Tampa, Florida (813-620-2000) Field Comments A= Air S = Soil/Sed/Solid WW= Waste Water W = Wipe SL = Sludge WW= Waste Water SW = Surface water P = Product GW =Ground Water
DW = Drinking Water **Matrix Codes**



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Talon/LPE Co.

Date/ Time Received: 09/16/2016 08:30:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 536919

Temperature Measuring device used: R8

Work Order #. 550515					
	Sample Receipt Checklist	Comments			
#1 *Temperature of cooler(s)?		2.8			
#2 *Shipping container in good condition	?	N/A			
#3 *Samples received on ice?		Yes			
#4 *Custody Seal present on shipping co	ontainer/ cooler?	N/A			
#5 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A			
#6 Custody Seals intact on sample bottle	es?	N/A			
#7 *Custody Seals Signed and dated?		N/A			
#8 *Chain of Custody present?		Yes			
#9 Sample instructions complete on Cha	in of Custody?	Yes			
#10 Any missing/extra samples?		No			
#11 Chain of Custody signed when reline	quished/ received?	Yes			
#12 Chain of Custody agrees with sample	e label(s)?	Yes			
#13 Container label(s) legible and intact	?	Yes			
#14 Sample matrix/ properties agree with	n Chain of Custody?	Yes			
#15 Samples in proper container/ bottle?	,	Yes			
#16 Samples properly preserved?		Yes			
#17 Sample container(s) intact?		Yes			
#18 Sufficient sample amount for indicat	ed test(s)?	Yes			
#19 All samples received within hold time	e?	Yes			
#20 Subcontract of sample(s)?		No			
#21 VOC samples have zero headspace	(less than 1/4 inch bubble)?	N/A			
#22 <2 for all samples preserved with HI samples for the analysis of HEM or HEM-		N/A			
analysts. #23 >10 for all samples preserved with N	laAsO2+NaOH, ZnAc+NaOH?	N/A			
* Must be completed for after-hours de	livery of samples prior to placing in	the refrigerator			
Analyst:	PH Device/Lot#:				
	0				
Checklist completed by:	Jessica Kramer	Date: 09/16/2016			
Checklist reviewed by:	Mms Moah Kelsey Brooks	Date: 09/16/2016			

APPENDIX E

NMOCD RELEASE NOTIFICATION AND CORRECTIVE ACTION (C-141)

District 1
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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notifica	atio	n and Co	rrective A	ction	1			
						OPERA'	ГOR		□ Initia	al Report		Final Report
Name of Co		Enterprise C					nristopher A Spe	ore, P.C				- mar respon
		80, Midlan		706			No. 432-214-32					
Facility Nar	ne Devoi	Thistle Fed	52H			Facility Typ	e Central Tanl	k Batte	гу			
Surface Ow	ner BLM			Mineral O	wner				API NO	. 30-025-4	1807	
						LOEDE	EAGE	~~	7117110	. 50-025-4	1077	
Unit Letter	Section	Township	Range			OF REJ	Feet from the	East	West Line	Country		
F	28	23S	33E	180		North	1795		West Line	County Lea		
		I		Latitude 32.2	8248	Longitud	le <u>-103.57966</u>					
				NATI	URE	OF RELI	EASE					
Type of Relea						-	Release 97 bbl	_	Volume R	ecovered 20	0 bbl	
Source of Rel			tank trail	ег		Date and H 7/6/16 04:	our of Occurrenc	e	Date and 0430	Hour of Disc	covery	7/6/16
Was Immedia	te Notice C					If YES, To						
		×	Yes L	No Not Rec	quired	Messages V	vere left with NM 1325 on 7/6/16 a	OCD D	District I off	ice. Spoke	with Ca	rl Chavez in
By Whom? C	hristopher .	A Spore, P.G.	Enterpris	se Crude Oil			our NMOCD 7/6					938.
Was a Watero	ourse Reac		Yes 🛛	l No			lume Impacting t					
If a Watercou	rse was Im	pacted, Descri	be Fully.*									
Describe Cau						700						
Crude transpo	ort driver ov	erfilled tank t	railer duri	ng loading.								
Emergency lin	icks were in	mmediately di	spatched	to location, and all on for excavating ir	free oi	l was recover	ed.					
		as minuted in	preparatio	iii ioi excuvating ii	прасте	a carrene.						
Describe Area												
Spill site is a	caliche tank	(battery pad.	Irregular	flow path measuring the flow path of	ig ~17:	5' x 95'.	almilian tha mat		-1			
Impacted calie	che/soils wi	ill be transpor	ted to Lea	Land, LLC for dis	posal.	elease and sto	ockpiling the mate	erial on	plastic.			
Confirmation	samples wi	Il be collected	from the	excavation to dem	onstrat	e remedial ac	tion levels have b	een ach	ieved.			
Closure repor	t will be ge	nerated and su	ibmitted to	all involved parti	es.							
I hereby certif	y that the in	nformation gi	ven above	is true and comple	te to th	ne best of my	knowledge and u	nderstar	nd that pursi	uant to NMC)CD rul	es and
regulations all	operators :	are required to	report an	d/or file certain rel	ease no	otifications ar	d perform correc	tive acti	ons for rele	ases which r	may end	langer
public health	or the envir	onment. The	acceptanc	e of a C-141 report	by the	NMOCD ma	arked as "Final Re	eport" d	oes not relie	eve the opera	itor of l	iability
or the environ	ment. In a	ddition. NMO	CD accept	investigate and rer tance of a C-141 re	neurate	e contamination	on that pose a three	esnonsi	ound water,	surface wat	er, hum	an health
federal, state,	or local law	vs and/or regu	lations.		P		me operator of r	Сэроны	omity for co	impirance wi	tii airy t	Mici
	11/1	11					OIL CONS	SERV	ATION	DIVISIO	N	
Signature: (nus	a Xaa	e						1			
						Annroved by	Environmental Sp	necialist	· Jamit	lyer		
Printed Name	: Christoph	ier A Spore, P	.G.			ipproved by		CCIAIIS	· ·	183		
Title: Senior	Field Envir	onmental Scie	entist			Approval Date	07/08/2016	F	Expiration I	Date: 09/08/2	2016	
E-mail Addres	ss: caspore	@eprod.com				Conditions of	Approval:					
							es only. Delineate	and rei	nediate per	Attached		
Date: 7/6/16	onal Ch.		ne: 432-2	14-3264		MOCD guide				1RP 433	8	
Attach Addit	ionai Snee	is II Necessa	ıry							nJXK16190 pJXK16190		

APPENDIX F

WASTE MANIFEST

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				115017	1. PA	GE_O	F	2. TRAIL	ER NO.	1044	
	3. COMPANY NAME	4. ADDI	RESS	rce		5	. PICK	-UP DATE			
G	PHONE NO. (432) 230-1414	STATE TX 79703	ZIP 6. TNRCC I.D. NO.								
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:			8. CON No.	TAINER Type		TOTAL	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	a. Hon-Regulated, Non Hazardous vvasi	(e			140.	Type	Qu	ANTITI	wu voi.	WASTE ID #	
E	b.										
L	c.	# 10									
R	d. 23,400			y to the second of			-	WI CER P		Ermin -	
A	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13.	WASTEP	ROFILE NO). 18582	
				GENCY OR SPIL	L, CO	NTACT			El CER CEI	TOTA NO	
T	NAME	PHON	E NO			1		24-HOUR	EMERGEN	NCY NO.	
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled,	and are in a	all respects in proper con	ndition fo	r transpo	ort by h	ighway acc	ording to ap	pplicable	
R	PRINTED/TYPED NAME	SIGNATURE	ATURE DATE								
T	16. TRANSPORTER (1)	to all lies		17.	TF	RANSP	ORT	ER (2)			
R	NAME:			NAME:						1931	
N S				TEXAS I.D. NO.							
P				IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:							
R T	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of			19. TRANSPORTER (2): Acknowledgment of receipt of material							
E R	PRINTED/TYPED NAME	U.94	to as	PRINTED/TYPED NAME							
S	SIGNATURE AND MICE	DATE	7/11	SIGNATURE	Zależ			D	ATE	TIME	
	Las Land LLC	ADDF		- Maulson 64 III	C II	62/1	90	PHONE:	575 00'	7 4049	
DF	Lea Land, LLC			e Marker 64, U. Miles East of Ca			80,		575-88	/-4046	
I A S C P I O L	PERMIT NO. 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		: I Hereby	certify that the above d	escribed	wastes w	ere del	ivered to th	is facility, the	hat the	
LY	AUTHORIZED SIGNATURE	Diz	a Albert	CELL NO.	7000 E	DA	TE	772010	TIM	1E 4-5	

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

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

LEA LAND, LLC

	1300 WEST MAIN ST	REET • C	OKLAHOMA	CITY, OK 73106 • 1	PHONE (405) 236-4	231	MAK				
NON	-HAZARDOUS WASTE MANIF	EST	NO 1	15005	1. PA	GEOF_	2. TRAI	LER NO.	044			
	3. COMPANY NAME	4. ADDF	RESS	ay 80	5. PICK-UP DATE							
G	PHONE NO.	ZIP 6. TNRCC I.D. NO.										
E	(432) 230-1414	STATE		706								
L	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:	ry day		8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #			
N	a.					w/#x						
	b.	Will be a			25 (4)		Carolin W. S.					
E	c.					200	Charles Sold					
R	d. 19.(20)								- e			
	12. COMMENTS OR SPECIAL INSTRUCTIONS:	in the same of	ir selici esti et	na sela Cipica nesis	Sultin in	SECTION OF THE PARTY OF	13. WASTE I	ROFILE N). 18582			
A												
	14. IN CA	SE OF		ENCY OR SPIL	L, CO	NTACT	24-HOUF	EMERGE	NCY NO.			
T	Kin Slaughter	5/5-8	37-4048									
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, I											
R	PRINTED/TYPED NAME		the test	SIGNATURE DATE								
T	16. TRANSPORTER (1)	ab spoile		17.	TI	RANSPO	ORTER (2)					
R A	NAME:		i auto	NAME:					i man			
N S	TEXAS I.D. NO.		THINS	TEXAS I.D. NO.								
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMERGENCY CONTACT:								
O R	EMERGENCY PHONE:			EMERGENCY PHONE: 19. TRANSPORTER (2): Acknowledgment of receipt of material								
T E	18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	Commence of the Commence of th								
R	PRINTED/TYPED NAME	Harry	, ,7/7	PRINTED/TYPED NAME								
S	SIGNATURE	DATE 7	-7-16	SIGNATURE	Valle I			DATE	0 1/201			
	I I I II C	ADDI		Markon 64 III	C II	a. 62/19	PHONE:	575-88	7 4049			
D F	Lea Land, LLC			Marker 64, U. Tiles East of C.			50,	3/3-00	/1040			
I A S C	PERMIT NO.	Sparing.	gozlaria in	20. COMMENTS		d september	THE PARTY	A THE PARTY	DOWN A			
PI	WM-01-035 - New Mex	cico										
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	CATION vastes.	: I Hereby c	ertify that the above of	described	wastes wer	re delivered to t	his facility, t	hat the			
LY	AUTHORIZED SIGNATURE	1	Line Column	CELL NO.		DAT	E 7/7/2018	TIN	ME			
1	LUMB LUNG	les							COPIES 4 & 5			
I A S C P I O L S I A T	WM-01-035 - New Mex 21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	Miles East of Carlsbad, NM 20. COMMENTS certify that the above described wastes were delivered to this facility, that the CELL NO. DATE TIME										

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

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

LEA LAND, LLC

1300 WEST MAIN STREET • O	KLAHOMA CITY, OF	K 73106 • PHC	ONE (405) 236-4257
---------------------------	------------------	---------------	--------------------

						17	-NIUNI				
NOI	N-HAZARDOUS WASTE MANIF	115004	1. PAG	1. PAGEOF 2. TRAILER NO.							
G	3. COMPANY NAME	4. ADDRESS	hway 80		5. F	PICK-UP DATE	3				
·	PHONE NO.	CITY	STATE		ZIP 6. T	NRCC I.D. NO		The Market State of the State o			
	(432) 230-1414		706	NRCC I.D. NC		dien -					
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	NAME OF DESCRIPTION OF WASTE SURPED.					8. CONTAINERS 9. TOTAL 10. UNIT 11.				
				No.	Type	QUANTITY	Wt/Vol.	WASTE ID#			
N	a. 101-Regulated, Non Mazaroous svas										
	b.						R. T.				
E	c.										
	d. 21 100										
R	36,480		des en las grant de S		1,000		v Add	your 15			
	12. COMMENTS OR SPECIAL INSTRUCTIONS:	trading of the design				13. WASTE P	ROFILE N	0,582			
A											
			RGENCY OR SPII	LL, CON	NTACT						
T	NAME	PHONE NO				24-HOUR	EMERGE	NCY NO.			
	IS CENEDATODIS CEDTIFICATIONS	Y 17 1 1 1 1 1 1			C 11		1 9 1				
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and are in	all respects in proper co	ondition for	r transport	by highway acc	ording to ap	pplicable			
R	PRINTED/TYPED NAME	SIGNATURE	SIGNATURE DATE								
	ATTIC BUATTETTON							OHMOUV.			
T	16. TRANSPORTER (1)		17.	TR	ANSPO	RTER (2)		5/15/5			
R	NAME:		NAME:					e verr			
N	TEXAS I.D. NO.		TEXAS I.D. NO.					M. France			
S	IN CASE OF EMERGENCY CONTACT:	AVID ATKINS	a transfer by	IN CASE OF EMERGENCY CONTACT:							
0	EMERGENCY PHONE:	6) 441-4835	EMERGENCY PHONE:								
R	18. TRANSPORTER (1): Acknowledgment of	of receipt of materia	19. TRANSPORTER (2): Acknowledgment of receipt of material								
T E	PRINTED/TYPED NAME	adilla	DDINITED/TVDEI	NAME				wear year			
R	PRINTED/TITED NAME_	7	PRINTED/TYPEI	J NAME _		TATE COMPANY					
S	SIGNATURE	DATE	_ SIGNATURE	MATERIAL SERVICES	Ery Money	D	ATE	or 92m			
		ADDRESS:				PHONE:					
D E	Lea Land, LLC		ile Marker 64, U			0,	575-88	7-4048			
D F I A		30	Miles East of C	arlsbad,	, NM		THE PERSON NAMED IN				
S C P I	PERMIT NO. WM-01-035 - New Mex	ico	20. COMMENTS					E MINE			
O L S I	21.DISPOSAL FACILITY'S CERTIFIC	ATION: I Hereb	y certify that the above	described w	vastes were	delivered to th	is facility t	hat the			
A T	facility is authorized and permitted to receive such w	vastes.					, 0				
LY	AUTHORIZED SIGNATURE	Granden and Life	CELL NO.	- 7127	DATE	7/7/2018	TIM	1E			
	Janto Lonzal				100		3	20			
	The second secon										

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

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

LEA LAND, LLC

	1300 WEST MAIN S	IREEI • (JKLAHOM	A CITY, OK /3106 •	PHONE (405) 236-4	4257	IOI)		
NO	N-HAZARDOUS WASTE MANIF	EST	NO	114994	1. PA	GEOF	2. TRAII	ER NO.	1044		
G	3. COMPANY NAME	COMPANY NAME 4. ADDRESS 4600 E. Highway 80									
G	PHONE NO. 700348.343.01	CITY		STATE	7/6/2016 ZIP 6. TNRCC I.D. NO.						
E	(432) 230-1414	Midia		TX		708	Trice I.D. Ive	Acres de la companya della companya de la companya de la companya della companya			
L	7. NAME OR DESCRIPTION OF WASTE SHIPPE			Territoria delle a mine	8. CON	TAINERS		10. UNIT	11. TEXAS		
N	a.				No.	Type	QUANTITY	Wt/Vol.	WASTE ID #		
1	"Non-Regulated, Non Hazardous Was b.	te				CM					
E	D.	Manual Con-				ar news	Cherical C				
L	c.				e la Svin						
R	d. NT 1/4DD			,	200						
K	12. COMMENTS OR SPECIAL INSTRUCTIONS:				English.		13. WASTE P	ROFILE NO	О.		
A	DEVON THISTLE 28 CTB								08582		
	14. IN CA	SE OF	FMFRC	ENCY OR SPIL	I CON	JTACT					
Т	NAME	PHON	E NO		L, COI	TACT	24-HOUR	EMERGEN	NCY NO.		
	Kin Slaughter		197-4048				e verrient				
0	15. GENERATOR'S CERTIFICATION: 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	ndition fo	r transport	t by highway acco	ording to ap	plicable		
R	PRINTED/TYPED NAME			SIGNATURE					DATE		
	ATTN BRIAN PEYTON										
T	16. TRANSPORTER (1)	ma ku da		17.	TR	ANSPO	ORTER (2)				
R A	NAME: TALON LPE			NAME:					e letter		
N	TEXAS I.D. NO.			TEXAS I.D. NO.							
S P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	ERGENCY CONTACT:						
O R	EMERGENCY PHONE: (575)) 441-4	835	EMERGENCY PH							
T	18. TRANSPORTER (1): Acknowledgment of	of receipt of	of material	19. TRANSPOI	PRTER (2): Acknowledgment of receipt of material						
E R	PRINTED/TYPED NAME	21.	114	PRINTED/TYPED NAME							
S	SIGNATURE	DATE		2018 SIGNATURE	SIGNATURE DATE						
		ADDR	ESS:				PHONE:				
	Lea Land, LLC			Marker 64, U.	S. Hwy	y 62/18		575-887	7-4048		
D F I A			30 N	Iiles East of Ca	rlsbad	, NM	10 0 000	production of the second			
S C P I O L	PERMIT NO. WM-01-035 - New Mex	ico		20. COMMENTS					Busta -		
S I A T	21. DISPOSAL FACILITY'S CERTIFIC , facility is authorized and permitted to receive such w		: I Hereby c	ertify that the above d	escribed v	vastes wer	e delivered to thi	s facility, th	nat the		
LY	AUTHORIZED SIGNATURE	A. F.	Mark Ro	CELL NO.	To like	DATE	7/6/2016	TIM	Е		
	MATTON VONZA	/12						112	:05		

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

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LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

							1./	1101			
NON	N-HAZARDOUS WASTE MANIF	115027	1. PA	GEOF_	2. TRAII	LER NO.	1044				
	3. COMPANY NAME	4. ADDR	Comme		rel ligh	5. PICK-UP DATE					
G	Enterprise Products			7/12/2016	if a biga	was the sale					
	PHONE NO.	CITY		STATE ZIP 6. TNRCC I.D. NO.							
E	(432) 230-1414	Midia	no	TX 79703	lo covi	TARTERS	O TOTAL	LIO IDUT	II TEVAC		
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N	a. Ion-Regulated, Non Hazardous Wast	e			1	CM	西 特特特				
	b.	almai y									
E		AAL S				Mark Street					
	C.										
	d.W1 9/1/1	Mary Control		TORN THE RESERVE TO A STATE OF		135114					
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:			THE PERSON NAMED IN	Printered Total	100 P.	13. WASTE P	POEILE N	0		
	DEVON THISTLE 28 CTB					Name of	13. WASTER	ROFILE N	18582		
A											
				GENCY OR SPIL	L, CO	NTACT	A4 HOUR	El ŒP CE	VOLVA		
T	NAME Kin Staughter	PHONE	E NO				24-HOUR	EMERGE	NCY NO.		
	15.GENERATOR'S CERTIFICATION:		1 1 1			C 11	and an assessable	described a	L		
0	shipping name and are classified, packed, marked, and	d labeled, a	and are in	all respects in proper co	ndition fo	or transport	by highway acc	ording to a	pplicable		
	international and national government regulations, in	cluding ap	plicable st	ate regulations, and are the same materials previously approved by LEA LAND, LLC							
R	PRINTED/TYPED NAME			SIGNATURE DATE							
T	16. TRANSPORTER (1)			17.	TF	RANSPO	RTER (2)	Lati			
R A	NAME: TALON LPE			NAME:					Marie A		
N	TEXAS I.D. NO.			TEXAS I.D. NO.					a usar - T		
S	IN CASE OF EMERGENCY CONTACT:	AVID A		IN CASE OF EMERGENCY CONTACT:							
0	collections of the second of the 1975			EMERGENCY PHONE:							
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	of receipt o	of material	19. TRANSPORTER (2): Acknowledgment of receipt of material							
T E	.f . e . 1 . 1	Veres							att the		
R	PRINTED/TYPED NAME	7	7.44	PRINTED/TYPED	NAME		<u> </u>				
S	SIGNATURE	DATE	4/1	SIGNATURE			Г	ATE	re te ma		
		ADDR	ESS:				PHONE:				
	Lea Land, LLC		Mil	e Marker 64, U.	S. Hw	y 62/18	0,	575-88	7-4048		
DF			30	Miles East of Ca	arlsbac	l, NM					
I A S C	PERMIT NO.			20. COMMENTS					Mari		
PI	WM-01-035 - New Mex	ico									
O L S I	21.DISPOSAL FACILITY'S CERTIFIC		: I Hereby	certify that the above d	escribed	wastes were	e delivered to the	nis facility, t	hat the		
A T	facility is authorized and permitted to receive such w		illen fel	Alexander source		TO SAITH	7/12/2016				
L Y	AUTHORIZED SIGNATURE	1	Wiscella.	CELL NO.	4 6	DATE		TIN	ИЕ		
	MAND Simonly	(7				U A A		1	2:00		
	and the Market							-			

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

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 1			115009	1. PA	GEOI	-	2. TRAIL	ER NO.	1100			
G	3. COMPANY NAME	ay 90		5.	PICK	-UP DATE						
G	PHONE NO.	CITY		STATE		ZIP 6.	6. TNRCC I.D. NO.			2 7 111		
E	(432) 230-1414	TX	79	706				MANA.				
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:	March M. M.		8. CON No.	TAINERS Type		TOTAL	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N	a.	e				CMI						
	b.				1000	unit en				1000		
E	c.							E E DE L				
R	d. 45 (21)											
K	12. COMMENTS OR SPECIAL INSTRUCTIONS:				- 15 min	LERON SITE	13.	WASTE P	ROFILE NO	D. FOD		
A												
	MANGE	SE OF		ENCY OR SPIL	L, CON	NTACT		24 HOLIB	EMERGEN	ICV NO		
T	NAME laughter	PHON	ENO					24-HOUK	EWEKGE	NCT NO.		
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 DATE									
T R	16. TRANSPORTER (1)	relita		17. TRANSPORTER (2)								
A	NAME:			NAME:						A PARTY S		
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	of receipt	of material	EMERGENCY PHONE: 19. TRANSPORTER (2): Acknowledgment of receipt of material								
T E	PRINTED/TYPED NAME	ad	1/2	PRINTED/TYPED NAME								
R S	SIGNATURE	DATE	7/8	SIGNATURE DATE								
	SIGNATURE	ADDI	SESS.	SIGNATURE				PHONE:	AIL			
	Lea Land, LLC			Marker 64, U.	S. Hw	y 62/13	80,		575-88	7-4048		
D F I A		Miles East of Carlsbad, NM										
S C P I O L	WM-01-035 - New Mex	20. COMMENTS	er etzen									
S I A T	21. DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w		: I Hereby o	eertify that the above d	lescribed	wastes we	re del	ivered to th	is facility, th	nat the		
LY	AUTHORIZED SIGNATURE	3		CELL NO.	AL PLET	DAT	E	6/2016	TIM	IE .DO		

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

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

District II

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

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 203573

CONDITIONS

Operator:	OGRID:
ENTERPRISE PRODUCTS OPERATING, L.P.	234137
ATTN: LAND DEPARTMENT	Action Number:
HOUSTON, TX 772104324	203573
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Create By		Condition Date
bhal	None None	4/10/2023