

Soil Assessment and Remediation Work Plan

Shugart 25 Fed Com #001 Eddy County, NM API# 30-015-31454 *2RP-2474, *2RP-5454

Prepared For:

Devon Energy Corporation 6488 Seven Rivers Highway Artesia, NM 88210

Prepared By:

TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

October 15, 2020

Page | 1

Mr. Jim Amos BLM Carlsbad Field Office 620 East Greene Street Carlsbad, NM 88220

Mr. Mike Bratcher **NMOCD District 2** 811 S. 1st Street Artesia, NM 88210

Subject: Soil Assessment and Remediation Work Plan Shugart 25 Fed Com #001 Eddy County, NM API# 30-015-31454

Dear Mr. Amos & Mr. Bratcher,

Devon Energy Corporation (Devon) has contracted Talon/LPE (Talon) to perform soil assessment and a remediation work plan for the above-referenced location. The results of our soil assessment and proposed remediation activities are contained herein.

Site Information

The Shugart 25 Fed Com #1 is located approximately forty (40) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter K, Section 25, Township 18 South, and Range 31 East in Eddy County, New Mexico. More specifically, the latitude and longitude for the release are 32.7167778 North and -103.8251343 West. A site map is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Kermit-Berino fine sands, 0 to 3 percent slopes. See Appendix II for the referenced soil survey. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of alluvium and eolian sand deposits. Drainage courses in this area are well drained.

Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 430-feet below ground surface (BGS). See Appendix II for the referenced groundwater depth. This site is located within a low potential Karst area.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

Approximate Depth to	o Groundwater 430 Feet/BGS
□Yes ⊠No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or playa lake
□Yes ⊠No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church
∐Yes ⊠No	Within 500 feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock watering purposes
□Yes ⊠No	Within 1000 feet of any freshwater well or spring
∐Yes ⊠No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
□Yes ⊠No	Within 300 feet of a wetland
□Yes ⊠No	Within the area overlying a subsurface mine
□Yes ⊠No	Within an unstable area
□Yes ⊠No	Within a 100-year floodplain

Because the release did not occur in any of these areas and the depth to groundwater is greater than 100-feet in-depth, based on the site characterization data, the cleanup criteria for this site are as follows.

Table I Closure Criteria for Soils Impacted by a Release							
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**				
>100 feet	Total Chlorides***	EPA 300.0 or SM4500 CI B	20,000 mg/kg				
	ТРН	EPA SW-846 Method 8015M	2,500 mg/kg				
	(GRO+DRO+MRO)						
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg				
	BTEX	EPA SW-846 Method 8021B or	50 mg/kg				
		8260B					
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg				

Incident Descriptions

*2RP-2474. On August 8, 2014, a leak occurred on a 3" ball valve on a poly transfer line causing an estimated 7 bbls of produced water to be released outside the containment of the tank battery. There was no produced water recovered and the line was repaired.

*2RP-5454. On May 13, 2019, a lovejoy on the water transfer pump failed to causing multiple leaks resulting in a total release of 106.6 bbls of produced water. 105 bbls of fluid were released inside the lined containment and were recovered. 1.6 bbls of fluid were released onto the location.

On November 27, 2019, a transfer pump failed causing a water tank to overflow. An estimated 400 bbls of produced water were released with the vac truck being able to recover the 400 bbls. All fluids were contained and retrieved within the steel-lined containment.

The initial C-141's are attached in Appendix III.

Soli Sampling									
Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1	L Closure Crite NMAC	eria 19.15.29	50 mg/kg	10 mg/kg		combined = mg/kg		2500 mg/kg	20,000 mg/kg
W. Composite	2/26/2020	0	ND	ND	ND	314	62.1	375.1	14900
N. Composite	2/26/2020	0	ND	ND	ND	42.9	ND	42.9	7600
E. Composite	2/26/2020	0	ND	ND	ND	401	157	558	6530
S. Composite	2/26/2020	0	ND	ND	ND	ND	ND	ND	47600
		0-1	ND	ND	ND	ND	ND	ND	9730
S-1	2/26/2020	2	ND	ND	ND	ND	ND	ND	432
5-1 2/	2/26/2020	3	ND	ND	ND	ND	ND	ND	192
		4	ND	ND	ND	ND	ND	ND	96
S-2	2/26/2020	0-1	ND	ND	ND	ND	ND	ND	1260
5-2	2/26/2020	2- R	ND	ND	ND	ND	ND	ND	368
		0-1	ND	ND	ND	ND	ND	ND	7330
6.2	2/26/2020	2	ND	ND	ND	ND	ND	ND	160
S-3	2/20/2020	3	ND	ND	ND	ND	ND	ND	80
		4	ND	ND	ND	ND	ND	ND	32
S-4	2/26/2020	0-1	ND	ND	ND	ND	ND	ND	4160
3-4	2/20/2020	2- R	ND	ND	ND	ND	ND	ND	112
		0-1	ND	ND	ND	ND	ND	ND	2000
S-5	2/26/2020	2	ND	ND	ND	ND	ND	ND	64
		3	ND	ND	ND	ND	ND	ND	48

Soil Sampling

ND-Analyte Not Detected

Proposed Remedial Actions

- The impacted area labeled S-Composite, which is comprised of a fivepoint composite sample taken from the south side of the containment wall, will be excavated to a depth of 1.0-feet deep.
- The bottom and sidewalls of the excavations will be advanced until field titration results for total chlorides are below Table 1 Closure Criteria 19.15.29 NMAC. Five-point composite samples will then be collected from the bottom and each side wall of the excavation. The samples will be laboratory analyzied for total chlorides via EPA Method 300.0 to verify field results before the excavation is backfilled.
- All of the excavated material will be hauled to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- The NMOCD will be notified via an email to be given the opportunity to be present for the liner inspection before this project is completed.
- A final closure report documenting the remedial actions and a Final C-141 will be provided to the NMOCD District II Artesia Office.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE

Rebecca Pons Project Manager

David J. Adkins Regional Manager

Attachments: Appendix I Site Map, Karst Map, TOPO Map & Location Map Appendix II Groundwater Data, Soil Survey & FEMA Flood Zone Appendix III Initial C-141's Appendix IV Laboratory Data



<u>APPENDIX I</u>

SITE MAP

KARST MAP

ΤΟΡΟ ΜΑΡ

LOCATION MAP

. Released to Imaging: 1/21/2021 3:32:46 PM

Received by OCD: 10/15/2020 12:34:55 PM Devon Snugart 25 red Com 1

API 30-015-31454 Eddy County New Mexico Site Plan



-

Legend

Page 8 of 57

- Sample Position
- / Impact Area-2014
- Impact Area-5/13/19
- 🕹 USGS











<u>APPENDIX II</u>

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

. Released to Imaging: 1/21/2021 3:32:46 PM

Received by OCD: 10/15/2020 12:34:55 PM Page 13 of 57 nmwris.ose.state.nm.us/nmwris/ReportProxy?gueryData=%7B"report"%3A"waterColumn"%2C%0A"BasinDiv"%3A"true"%2C %0A basin...



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer

(R=POD has been replaced, O=orphaned,

replaced & no longer	O=orpha	÷	(quarters are 1=NW 2=NE			E 3=SW 4=SE)									
serves a water right file.)	C=the fil closed)	le is			qua			e sma	allest to	(N	AD83 UTM in n	neters)	(In feet	.)	
		POD Sub-		Q	Q	Q								w	ater
POD Number CP 00849 POD1	Code	basin (CP	County LE						Rng 31E	X 608012	Y 3618757* 🌍	DistanceDep 2722	othWellDepth 300	WaterCo	lumn
CP 00672		CP	LE		4	4	07	18S	32E	612475	3624947* 🌍	5040	524	430	94
CP 00672 CLW475398	0	CP	LE		4	4	07	18S	32E	612475	3624947* 🌍	5040	540	460	80
CP 00814 POD1		CP	LE		2	2	08	18S	32E	614074	3626168* 🌍	6920	480		
CP 00563 POD1		CP	LE	1	1	2	19	19S	32E	612118	3613376* 🌍	7402	300		
CP 01656 POD2		CP	LE	3	4	3	17	19S	32E	613364	3613648 🌍	7586	70		
CP 01656 POD1		CP	LE	3	4	3	17	19S	32E	613368	3613646 🌍	7590	70		
CP 00829 POD1		CP	LE		2	4	16	19S	31E	606165	3614009* 🌍	7592	120		
CP 01656 POD3		CP	LE	3	4	3	17	19S	32E	613374	3613633 🌍	7604	30		
CP 00640 POD1		CP	LE		2	2	19	19S	32E	612621	3613280* 🌍	7645	260	102	158
<u>CP 00677</u>		CP	LE		1	1	26	18S	32E	617750	3621373* 🌍	7695	700		
CP 01554 POD1		CP	LE	2	2	1	22	19S	31E	607166	3613354 🌍	7725	400		
CP 01554 POD2		CP	LE	2	2	1	22	19S	31E	607165	3613322 🌍	7755	400		
											Aver	age Depth to W	ater:	330 fee	et
												Minimum De	pth:	102 fee	et
												Maximum De	oth:	460 fee	et
Record 13 Count: UTMNAD83 Radiu	s Search	(in mete	e <u>rs):</u>												
Easting (X): 61	0104.484		Nort	hin	g (Y	():	3620	0499.2	205		Radius: 8000				
*UTM location was derive	nd from DI	SS - 600	Holp												

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/23/20 11:07 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

KM-Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q Elevation: 3,100 to 4,200 feet Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F Frost-free period: 190 to 230 days Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent Berino and similar soils: 35 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Plains, alluvial fans Landform position (three-dimensional): Talf, rise Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: A Ecological site: Deep Sand (R042XC005NM) Hydric soil rating: No

USDA

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

Description of Berino

Setting

Landform: Fan piedmonts, plains Landform position (three-dimensional): Riser Down-slope shape: Convex Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand H2 - 17 to 50 inches: fine sandy loam H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 40 percent
Salinity, maximum in profile: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 15, Sep 15, 2019





-egend FISREPORT FOR DETAILED PECIAL FLOOD AZARD AREAS OF LOOD HAZARD OTHER AREAS GENERAL STRUCTURES OTHER FEATURES		LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway O.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X Area of Minimal Flood Risk due to Levee Zone D Area of Undetermined Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone X Effective LOWRs Area of Undetermined Flood Hazard Zone X Effective LOWRs Area of Undetermined Flood Hazard Zone X Effective Constal Transect Base Flood Elevation Line (BFE) Limit of Study Limit of Study Limit of S
HER AREAS OF		annual chance flood with less than one foot or with of less than one square m conditions 1% Annual e Flood Hazard <i>Zone X</i> with Reduced Flood Risk d vith Reduced Flood Risk d vith Flood Risk due to Lev
OTHER AREAS	NO SCREEN	Area of Minimal Flood Hazard zone Effective LOMRs Area of Undetermined Flood Hazard
GENERAL STRUCTURES	Ξļ	3
OTHER FEATURES		Sections with 1% r Surface Elevatior al Transect Flood Elevation Lin of Study of Study iction Boundary iction Boundary al Transect Baseli e Baseline e Baseline
MAP PANELS		Digital Data Available N No Digital Data Available Unmapped
-0	The pi point: an au	The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.
This map complies with digital flood maps if it is The basemap shown cor accuracy standards	complies with od maps if it is map shown cor standards	map complies with FEMA's standards for the use of tal flood maps if it is not void as described below. basemap shown complies with FEMA's basemap uracy standards
The flood hazard inform authoritative NFHL web was exported on 1/23/ reflect changes or amei time. The NFHL and effu become superseded by	ard informa NFHL web to on <u>1/23/2</u> is or amen IL and effe rseded by r	The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/23/2020 at 1:14:55 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.
This map image is w elements do not app legend, scale bar, m FIRM panel number, rIRM panel number, regulatory purposes.	nge is void i not appear: bar, map c umber, and umber, and nd unmoder rposes.	This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifies flRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



APPENDIX III

INITIAL C-141's

. Released to Imaging: 1/21/2021 3:32:46 PM

PM					Page 18 of 5		
					Form C-141 Revised March 17, 1999		
1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220				outh St. Francis Dr.			
elease Notific	ation	and Co	orrective A	ction	WB		
OP	PERAT	OR		🛛 Initial Re			
6137	(Contact	Roger Herna				
]	Telephone	e No. 575-74	48-5238			
	F	Facility T	ype Oil We	[]			
Mineral	Owner	r		Lease	No.		
LOCA	TION	OFREI	EASE				
e Feet from the 1980			Feet from the 1980	East/West Line West	County Eddy		
NAT	TIRE	OF REL	EASE				
	UILL				Recovered 55bbls		
		Date and Hour of Occurrence Date and Hour of Discovery 2/2/12.					
		If YES, To Whom?					
No Not Re	equired	Justin Frye	, BLM – Eddy C	ounty & Mike Br	atcher, OCD		
🖾 No		If YES, Vo	olume Impacting t	he Watercourse.	RECEIVED		
ly.*					FEB 08 2012		
					NMOCD ARTESIA		
er. Vacuum truck wa				spill that was kep	ot within the containment,		
Taken.* ine containment.							
rt and/or file certain r tance of a C-141 repo tely investigate and r	release no ort by the remediate	otifications a NMOCD m e contaminat	nd perform correc narked as "Final R ion that pose a thr ve the operator of	tive actions for re eport" does not re eat to ground wat responsibility for	eleases which may endanger elieve the operator of liability er, surface water, human health compliance with any other		
		OIL CONSERVATION DIVISION					
		Approved by	DBHEDESUPErvi	Sorting Dra	HUNLING		
		Approval Da	FEB 1 6 2	012 Expiration	n Date: NA		
				0:11			
		Conditions o	f Approval: NIA	Final	Attached		
	Sta Energy Min Oil C 1220 Sa elease Notific OF 6/37 Mineral LOCA e Feet from the 1980 NAT NAT	State of N Energy Minerals a Oil Conserv 1220 South Santa Fe, elease Notification OPERAT 6/37 0 1 6/37 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	State of New Mexi Energy Minerals and Natura Oil Conservation Div 1220 South St. Franc Santa Fe, NM 875 Please Notification and Co OPERATOR GU37 Contact Telephone Facility T Mineral Owner LOCATION OF REL Mineral Owner LOCATION OF REL No Not Required Justin Frye Date and F 2/2/12, 8:1 If YES, To Justin Frye Date and F 2/2/12, 8:1 If YES, Vo No Ily.*	State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 elease Notification and Corrective Ad OPERATOR [2007] Contact Roger Hernan Telephone No. 575-74 Facility Type Oil We Mineral Owner LOCATION OF RELEASE e Feet from the North/South Line South South Feet from the 1980 NATURE OF RELEASE Volume of Release 55bbls Date and Hour of Occurrence 2/2/12, 8:19 AM If YES, To Whom? Justin Frye, BLM – Eddy Co Date and Hour 2/3/12, 8:09 If YES, Volume Impacting to No Not Required Justin Frye, BLM – Eddy Co Date and Hour 2/3/12, 8:09 If YES, Volume Impacting to Ily.*	State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Elease Notification and Corrective Action OPERATOR Initial Re OPERATOR Initial Re Using Contact Roger Hernandez Telephone No. 575-748-5238 Facility Type Oil Well Mineral Owner Lease LOCATION OF RELEASE E e Feet from the South North/South Line P80 Feet from the Vest NATURE OF RELEASE Volume of Release 55bbls Volume of 2/2/12, 8:19 AM 8:19AM If YES, To Whom? Justin Frye, BLM – Eddy County & Mike Br Bate and Hour 2/3/12, 8:05 AM If YES, Volume Impacting the Watercourse. Image: No If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. In.* ine containment. Date and perform corrective actions for retainer of a C-141 report by the NMOCD marked as "Final Report" does not relive the operator of responsibility for s. OIL CONSERVATION Approved by Distagee Bereaded as the provent operator of responsibility for s.		

.

Received by OCD: 10/15/2020 12:34:55 PM

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
,

HOBBS OCD State of New Mexico Energy Minerals and Natural Resources

AUG 1 5 20 Pail Conservation Division 1220 South St. Francis Dr. Form C-141 Revised August 8, 2011

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

BECENTER Santa Fe, NM 87505

Release Notification and Corrective Action

	OPERATOR	🛛 Initia	al Report	Final Report
Name of Company Devon Energy	Contact Rudy Zuniga			
Address PO Box 250 Artesia, NM 88211	Telephone No. 575- 390-5435			
Facility Name Shugart 25 Federal Com 1	Facility Type Gas			
Surface Overan Federal	10	LADIN		

Surface Owner: Federal

Mineral Owner

API No. 30-015-31454

	LOCATION OF RELEASE								
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	
K	25	18S	31E	1980	SOUTH	1980	WEST	EDDY	

Latitude: ____ Longitude: ____

NATURE	OF RELEASE	
Type of Release Ball valve to load line left open 🦰 🔊 🔊	Volume of Release: 7 bbls	Volume Recovered: 0
Source of Release: Produced Water	Date and Hour of Occurrence	Date and Hour of Discovery
- AN	08/08/14 3:30 AM	08/08/14 3:30 AM
Vas Immediate Notice Given?	If YES, To Whom?	
🛛 Yes 🔲 No 🗌 Not Required	Rudy Zuniga-Foreman/Hubert	Perry-Night Foreman/Randy Gladden-
		uz-EHS/Roy White-Senior Production
	Foreman/Mike Bratcher-OCD/J	eff Robertson-BLM
By Whom? Freddy Ramirez/Jason Anderson - Night lease operators	Date and Hour: 08/08/14 3:30	AM
Vas a Watercourse Reached?	If YES, Volume Impacting the Wa	atercourse.
🗌 Yes 🖾 No		
Describe Cause of Problem and Remedial Action Taken.* On August 8, 2014 at the Shugart 25 Federal #1, a leak occurred on a water to be released outside the facility. There was no produced wate		
Describe Area Affected and Cleanup Action Taken.*		
The area affected outside the facility was 7 feet wide by 12 feet long. activities.	Diversified was contacted to perfor	m the site assessment and soil sampling
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release in public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report does not be acceptance not be acceptance of a C-141 report does not be acceptance not be acc	otifications and perform corrective a e NMOCD marked as "Final Report" e contamination that pose a threat to	ctions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health

federal, state, or local laws and/or regulations.

Signature: Shammy Ingram		<u>OIL CONSER</u>	VATION I	DIVISION	
Printed Name: Shammy Ingram		Approved by Environmental Specia	list:		
Title: Field Admin Support	,	Approval Date: 8-15-14	Expiration D	Date: 10-17-14	
E-mail Address: Shammy.Ingran	n@dvn.com	Conditions of Approval: SiTE Supply rego. Pelinute & reachaste and	nd.	Attached	
Date: August 15, 2014	Phone: 575-748-0174	Poliante Erachere au	ea as por	1RP-3245	
* Attach Additional Sheets If Neo	cessary	N no Co guides . Sub-mi (-141 by 10-17 -14	2 fiel	Ogrid	
		(-141 by 10-17 -14	V	NT01422	
		AUF 1-R		p 70 1422	

. Released to Imaging: 1/21/2021 3:32:46 PM

•

1025 N. FICIEN DT., HOODS, INVI 88240	e of New Mexico erals and Natural Resources	5
District IIIOil Co1000 Rio Brazos Road, Aztec, NM 874101220 SDistrict IV1220 S	onservation Division South St. Francis Dr.	Satisfield accordance with 19.15.29 NMAC.
1220 S. St. Francis Dr., Santa Fe, NM 87505 San	ta Fe, NM 87505	RECEIVED
	tion and Corrective	Action
NAB1425241401	OPERATOR	Initial Report 🗌 Final Report
Name of Company Devon Energy1/37Address PO Box 250 Artesia, NM 88211	Contact Rudy Zuniga Telephone No. 575- 390	5/35
Facility Name Shugart 25 Federal Com 1	Facility Type Gas	
Surface Owner: Federal Mineral Ow	vner	API No. 30-015-31454
LOCA	FION OF RELEASE	
Unit Letter Section Township Range Feet from the	North/South Line Feet from th	
K 25 18S 31E 1980	SOUTH 1980	WEST EDDY
Latitude	e: Longitude:	
NATU	JRE OF RELEASE	
Type of Release Ball valve to load line left open	Volume of Release: 7 bb	
Source of Release: Produced Water	Date and Hour of Occurr 08/08/14 3:30 AM	ence Date and Hour of Discovery 08/08/14 3:30 AM
Was Immediate Notice Given?	If YES, To Whom?	
Yes 🗌 No 🗌 Not Req		/Hubert Perry-Night Foreman/Randy Gladden- ancio Cruz-EHS/Roy White-Senior Production
		r-OCD/Jeff Robertson-BLM
By Whom? Freddy Ramirez/Jason Anderson - Night lease operation	ators Date and Hour: 08/08/14	3:30 AM
Was a Watercourse Reached?	If YES, Volume Impacti	
If a Watercourse was Impacted, Describe Fully.*		
n a watercourse was impacted, Describe Funy."		
Describe Cause of Problem and Remedial Action Taken.* On August 8, 2014 at the Shugart 25 Federal #1, a leak occurred water to be released outside the facility. There was no produced		
Describe Area Affected and Cleanup Action Taken.* The area affected outside the facility was 7 feet wide by 12 feet l activities.	long. Diversified was contacted	to perform the site assessment and soil sampling
I hereby certify that the information given above is true and comple regulations all operators are required to report and/or file certain rel public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and report or the environment. In addition, NMOCD acceptance of a C-141 re- federal, state, or local laws and/or regulations.	ease notifications and perform co t by the NMOCD marked as "Fina mediate contamination that pose a	rrective actions for releases which may endanger al Report" does not relieve the operator of liability threat to ground water, surface water, human health
Signature: Shammy Ingram	OIL CO	DNSERVATION DIVISION
Printed Name: Shammy Ingram	Approved by Environment	NA
Title: Field Admin Support	Approval Date: 9/9/	Expiration Date:
E-mail Address: Shammy.Ingram@dvn.com	Conditions of Approval:	Attached
Date: August 15, 2014 Phone: 575-748-0174	Remediation per OCD Ru	
* Attach Additional Sheets If Necessary	SUBMIT REMEDIATION	PROPOSAL NO 2RP-2474
	LATER THAN: 10[4]]	4 Lnr- 4 M

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Page 21 of 50

Incident ID	NAB1425241401
District RP	2RP-2474
Facility ID	30-015-31454
Application ID	pAB1425241215

Release Notification

Responsible Party

Responsible Party: Devon Energy	OGRID: 328947	
Contact Name: Tom Bynum	Contact Telephone: 580-748-1613	
Contact email: <u>Tom.Bynum@dvn.com</u>	Incident # (assigned by OCD): NAB1914957336	
Contact mailing address: PO Box 250 Artesia, NM 88211		

Location of Release Source

Latitude <u>32.71680</u> Longitude <u>-103.82510</u>

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Shugart 25 Federal #1	Site Type: Oil Production		
Date Release Discovered: 08/08/14	API# (if applicable) 30-015-00192		

Unit Letter	Section	Township	Range	County
K	25	18S	31E	Eddy

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

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

Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (bbls) 7 bbl	Volume Recovered (bbls) 0
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	🗌 Yes 🖾 No
Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (Mcf)	Volume Recovered (Mcf)
Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
	Volume Released (bbls) 7 bbl Is the concentration of dissolved chloride in the produced water >10,000 mg/l? Volume Released (bbls) Volume Released (Mcf)

Cause of Release:

On August 8,2014 at the Shugart 25 Federal

#1 a leak occurred on a 3" ball valve located on the poly transfer line casing an estimate 7 bbls of produced water to release outside the facility, no fluid was recovered. The poly line was repaired.

Page 22 of 50

Page	2
------	---

Oil Conservation Division

Incident ID	NAB1425241401
District RP	2RP-2474
Facility ID	30-015-31454
Application ID	pAB1425241215

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

Initial Response

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

 \square The source of the release has been stopped.

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

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

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

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

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

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

_

cerived by OCD: 10/15/2020 12:34:55 PM State of New Mexico			Page 23 of 5	
COIIII C-141	Oil Conservation Division		Incident ID	NAB1425241401
age 4			District RP	2RP-2474
			Facility ID	30-015-31454
			Application II	D pAB1425241215
regulations all operators are republic health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Signature: email:Rpons@talonl		ifications and per OCD does not re- eat to groundwar responsibility fr _ Title:F Date:10/	erform corrective actions for elieve the operator of liabilit ter, surface water, human he or compliance with any othe Project Manager	r releases which may endanger y should their operations have ealth or the environment. In
OCD Only				
Received by:		Date	:	

Received by OCD: 10/15/2020 12:34:55 PM Form C-141 State of New Mexico

Oil Conservation Division

Incident ID	NAB1425241401
District RP	2RP-2474
Facility ID	30-015-31454
Application ID	pAB1425241215

Remediation Plan

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Page 5

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.			
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: <u>Rebecca Pons</u> Title: <u>Project Manager</u>			
Signature: Date: _ <u>10/14/2020</u>			
email: <u>Rpons@talonlpe.com</u> Telephone: <u>575-441-0980</u>			
OCD Only			
Received by: Date:			
Approved Approved with Attached Conditions of Approval Denied Deferral Approved			
Signature: Date:			

•

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	NAB1914957336
District RP	2RP-5454
Facility ID	
Application ID	pAB1914956037

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Amanda T. Davis	Contact Telephone 575-748-0176
Contact email amanda.davis@dvn.com	Incident # (assigned by OCD) NAB1914957336
Contact mailing address 6488 Seven Rivers HWY	

Location of Release Source

Latitude 32.7167778

Longitude -103.8251343

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Shugart 25 Fed Com #001	Site Type Gas
Date Release Discovered 5/13/2019	API# (if applicable) 30-015-31454

Unit Letter	Section	Township	Range	County
K	25	18S	31E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)		
Produced Water	Volume Released (bbls) 106.6	Volume Recovered (bbls) 105		
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No		
Condensate	Volume Released (bbls)	Volume Recovered (bbls)		
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)		
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)		
Cause of Release Water transfer pump was leaking from lovejoy and caused it to leak from multiple spots on the pump. Affected area inside containment 30'x60'x5". Affected area outside of containment 25'x10'x3/4". All fluid stayed on the pad.				

eived by OCD: 10/15/20.				Page 26
m C-141	State of New Mexic		Incident ID	NAB1914957336
e 2	Oil Conservation Divis	sion	District RP	2RP-5454
			Facility ID	
			Application ID	pAB1914956037
Was this a major	If YES, for what reason(s) does the	e responsible party consid	er this a major release	?
release as defined by	This is considered a major			
19.15.29.7(A) NMAC?		spin beeddae it ie e	VOI 20 DDLO.	
Yes No				
		To whom? Whon and h	www.hat maana (nhana	amail ata)?
	notice given to the OCD? By whom?			
	ent to Debhorah Mckinne, C Briswold from Wesley Mathe			na venegas, mike
		ws on 5/15/15.		
	Init	ial Response		
		<u>^</u>		
The responsible	party must undertake the following actions in	nmediately unless they could cre	eate a safety hazard that wo	uld result in injury
The source of the rel	ease has been stopped.			
The impacted area ha	as been secured to protect human hea	lth and the environment.		
	ave been contained via the use of ber		ids, or other containm	ent devices.
Released materials h	nave been contained via the use of ber recoverable materials have been remo	rms or dikes, absorbent pa		ent devices.
Released materials hAll free liquids and r	recoverable materials have been remo	rms or dikes, absorbent pa		ent devices.
Released materials hAll free liquids and r		rms or dikes, absorbent pa		ent devices.
Released materials hAll free liquids and r	recoverable materials have been remo	rms or dikes, absorbent pa		ent devices.
Released materials hAll free liquids and r	recoverable materials have been remo	rms or dikes, absorbent pa		ent devices.
Released materials hAll free liquids and r	recoverable materials have been remo	rms or dikes, absorbent pa		ent devices.
Released materials hAll free liquids and r	recoverable materials have been remo	rms or dikes, absorbent pa		ent devices.
 Released materials h All free liquids and n If all the actions described 	recoverable materials have been remo ed above have <u>not</u> been undertaken, e	rms or dikes, absorbent pa oved and managed approp explain why:	oriately.	
 Released materials h All free liquids and r If all the actions describe Per 19,15,29,8 B, (4) NN 	recoverable materials have been remo ed above have <u>not</u> been undertaken, e MAC the responsible party may com	ms or dikes, absorbent pa oved and managed approp xplain why:	riately. diately after discovery	of a release. If remediation
 Released materials h All free liquids and r If all the actions describe Per 19.15.29.8 B. (4) NN has begun, please attach 	recoverable materials have been remo ed above have <u>not</u> been undertaken, e MAC the responsible party may comm a narrative of actions to date. If re	ms or dikes, absorbent pa oved and managed approp xplain why: nence remediation immedial efforts have been	diately after discovery successfully complete	of a release. If remediation
 Released materials h All free liquids and n If all the actions described Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containment 	MAC the responsible party may common a narrative of actions to date. If reen tarea (see 19.15.29.11(A)(5)(a) NM	rms or dikes, absorbent pa oved and managed approp explain why: mence remediation imme medial efforts have been MAC), please attach all in	diately after discovery successfully complete formation needed for	of a release. If remediation ed or if the release occurre closure evaluation.
 Released materials h All free liquids and n If all the actions described Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmed L hereby certify that the infi 	MAC the responsible party may common a narrative of actions to date. If reent area (see 19.15.29.11(A)(5)(a) NM	rms or dikes, absorbent pa oved and managed approp explain why: mence remediation imme- medial efforts have been MAC), please attach all in te to the best of my knowled	diately after discovery successfully complete formation needed for ge and understand that p	of a release. If remediation ed or if the release occurre closure evaluation. ursuant to OCD rules and
 Released materials h All free liquids and n If all the actions described Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmed I hereby certify that the infregulations all operators are public health or the environ 	MAC the responsible party may comment a narrative of actions to date. If re- ent area (see 19.15.29.11(A)(5)(a) NM formation given above is true and complete e required to report and/or file certain relevant ment. The acceptance of a C-141 report	mence remediation imme medial efforts have been MAC), please attach all in te to the best of my knowled ease notifications and perfor by the OCD does not reliev	diately after discovery successfully complete formation needed for ge and understand that p m corrective actions for e the operator of liability	of a release. If remediation ed or if the release occurrence closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have
 Released materials h All free liquids and n If all the actions described Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmed I hereby certify that the infregulations all operators are public health or the enviror failed to adequately investi 	MAC the responsible party may comment a narrative of actions to date. If re- ent area (see 19.15.29.11(A)(5)(a) NM formation given above is true and complet e required to report and/or file certain rele- nment. The acceptance of a C-141 report igate and remediate contamination that po-	mence remediation imme medial efforts have been MAC), please attach all in te to the best of my knowled ease notifications and perfor by the OCD does not reliev ose a threat to groundwater, s	diately after discovery successfully complete formation needed for ge and understand that p m corrective actions for e the operator of liability surface water, human her	of a release. If remediation ed or if the release occurrence closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have alth or the environment. In
Released materials h All free liquids and n If all the actions described Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containment I hereby certify that the information regulations all operators are public health or the environ failed to adequately investia addition, OCD acceptance	MAC the responsible party may comment a narrative of actions to date. If re- ent area (see 19.15.29.11(A)(5)(a) NM formation given above is true and complete e required to report and/or file certain relevant ment. The acceptance of a C-141 report	mence remediation imme medial efforts have been MAC), please attach all in te to the best of my knowled ease notifications and perfor by the OCD does not reliev ose a threat to groundwater, s	diately after discovery successfully complete formation needed for ge and understand that p m corrective actions for e the operator of liability surface water, human her	of a release. If remediation ed or if the release occurrence closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have alth or the environment. In
Released materials h All free liquids and n If all the actions described If all the actions described Per 19.15.29.8 B. (4) NN has begun, please attach within a lined containmed I hereby certify that the infi regulations all operators are public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations.	MAC the responsible party may comment an anarrative of actions to date. If reent area (see 19.15.29.11(A)(5)(a) NM formation given above is true and complete required to report and/or file certain relentation. The acceptance of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation.	mence remediation immedial efforts have been MAC), please attach all in te to the best of my knowled ease notifications and perfor by the OCD does not reliev ose a threat to groundwater, serator of responsibility for comparison of the composite of the second se	diately after discovery successfully complete formation needed for ge and understand that p m corrective actions for e the operator of liability surface water, human her ompliance with any othe	of a release. If remediation ed or if the release occurrence closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have alth or the environment. In
Released materials h All free liquids and n If all the actions described If all the actions described Per 19.15.29.8 B. (4) NN has begun, please attach within a lined containmed I hereby certify that the infi regulations all operators are public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations.	MAC the responsible party may comment an anarrative of actions to date. If reent area (see 19.15.29.11(A)(5)(a) NM formation given above is true and complete required to report and/or file certain relentation. The acceptance of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation.	mence remediation immedial efforts have been MAC), please attach all in te to the best of my knowled ease notifications and perfor by the OCD does not reliev ose a threat to groundwater, serator of responsibility for comparison of the composite of the second se	diately after discovery successfully complete formation needed for ge and understand that p m corrective actions for e the operator of liability surface water, human hea ompliance with any othe Associate	of a release. If remediation ed or if the release occurrence closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have alth or the environment. In
Released materials h All free liquids and n If all the actions described If all the actions described Per 19.15.29.8 B. (4) NN has begun, please attach within a lined containmed I hereby certify that the infi regulations all operators are public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations.	MAC the responsible party may comment an anarrative of actions to date. If reent area (see 19.15.29.11(A)(5)(a) NM formation given above is true and complete required to report and/or file certain relentation. The acceptance of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation.	mence remediation immedial efforts have been MAC), please attach all in te to the best of my knowled ease notifications and perfor by the OCD does not reliev ose a threat to groundwater, serator of responsibility for comparison of the composite of the second se	diately after discovery successfully complete formation needed for ge and understand that p m corrective actions for e the operator of liability surface water, human hea ompliance with any othe Associate	of a release. If remediation ed or if the release occurrence closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have alth or the environment. In
 Released materials h All free liquids and n If all the actions described If all the actions described Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmed I hereby certify that the infregulations all operators are public health or the enviror failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: Kend Signature: Kend 	MAC the responsible party may commended above have <u>not</u> been undertaken, ended at a narrative of actions to date. If response to a complete required to report and/or file certain release and remediate contamination that poor of a C-141 report does not relieve the open of a C-141 report does not relieve the open a DeHoyos	mence remediation immedial efforts have been MAC), please attach all in te to the best of my knowled ease notifications and perfor by the OCD does not reliev by the OCD does not reliev cose a threat to groundwater, serator of responsibility for compared to the term of term of the term of term	diately after discovery successfully complete formation needed for ge and understand that p m corrective actions for e the operator of liability surface water, human her ompliance with any other Associate 2019	of a release. If remediation ed or if the release occurrence closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have alth or the environment. In
 Released materials h All free liquids and n If all the actions described If all the actions described Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmed I hereby certify that the infregulations all operators are public health or the enviror failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: Kend Signature: Kend 	MAC the responsible party may comment an anarrative of actions to date. If reent area (see 19.15.29.11(A)(5)(a) NM formation given above is true and complete required to report and/or file certain relentation. The acceptance of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation.	mence remediation immedial efforts have been MAC), please attach all in te to the best of my knowled ease notifications and perfor by the OCD does not reliev by the OCD does not reliev cose a threat to groundwater, serator of responsibility for compared to the term of term of the term of term	diately after discovery successfully complete formation needed for ge and understand that p m corrective actions for e the operator of liability surface water, human hea ompliance with any othe Associate	of a release. If remediation ed or if the release occurrence closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have alth or the environment. In
 Released materials h All free liquids and n If all the actions described If all the actions described Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containmed I hereby certify that the infregulations all operators are public health or the enviror failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: Kend Signature: Kend 	MAC the responsible party may commended above have <u>not</u> been undertaken, ended at a narrative of actions to date. If response to a complete required to report and/or file certain release and remediate contamination that poor of a C-141 report does not relieve the open of a C-141 report does not relieve the open a DeHoyos	mence remediation immedial efforts have been MAC), please attach all in te to the best of my knowled ease notifications and perfor by the OCD does not reliev by the OCD does not reliev cose a threat to groundwater, serator of responsibility for compared to the term of term of the term of term	diately after discovery successfully complete formation needed for ge and understand that p m corrective actions for e the operator of liability surface water, human her ompliance with any other Associate 2019	of a release. If remediation ed or if the release occurrence closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have alth or the environment. In
 Released materials h All free liquids and n If all the actions described Per 19.15.29.8 B. (4) NN has begun, please attach within a lined containmed I hereby certify that the information of the environ failed to adequately investive addition, OCD acceptance and/or regulations. Printed Name: Kend Signature: Kendra.de 	MAC the responsible party may commended above have <u>not</u> been undertaken, ended at a narrative of actions to date. If response to a complete required to report and/or file certain release and remediate contamination that poor of a C-141 report does not relieve the open of a C-141 report does not relieve the open a DeHoyos	mence remediation immedial efforts have been MAC), please attach all in te to the best of my knowled ease notifications and perfor by the OCD does not reliev by the OCD does not reliev cose a threat to groundwater, serator of responsibility for compared to the term of term of the term of term	diately after discovery successfully complete formation needed for ge and understand that p m corrective actions for e the operator of liability surface water, human her ompliance with any other Associate 2019	of a release. If remediation ed or if the release occurrence closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have alth or the environment. In
 Released materials h All free liquids and n If all the actions described Per 19.15.29.8 B. (4) NN has begun, please attach within a lined containmed I hereby certify that the information of the environ failed to adequately investive addition, OCD acceptance and/or regulations. Printed Name: Kend Signature: Kendra.de occD Only 	MAC the responsible party may commended above have <u>not</u> been undertaken, ended at a narrative of actions to date. If response to a complete required to report and/or file certain release and remediate contamination that poor of a C-141 report does not relieve the open of a C-141 report does not relieve the open a DeHoyos	mence remediation immedial efforts have been MAC), please attach all in te to the best of my knowled ease notifications and perfor by the OCD does not reliev by the OCD does not reliev cose a threat to groundwater, serator of responsibility for compared to the term of term of the term of term	diately after discovery successfully complete formation needed for ge and understand that p m corrective actions for e the operator of liability surface water, human her ompliance with any othe Associate 2019 75-748-3371	of a release. If remediation ed or if the release occurrence closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have alth or the environment. In

Received by OCD: 10/15/2020 12:34:55 PM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

Incident ID	NAB1914957336
District RP	2RP-5454
Facility ID	30-015-31454
Application ID	pAB1914956037

Page 27 of 50

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 10/1	5/2020 12:34:55 PM State of New Mexico		Incident ID	Page 28 of 5
		Oil Conservation Division		NAB1914957336
Page 4	Oil Conservation Division			2RP-5454
			Facility ID	30-015-31454
			Application ID	pAB1914956037
regulations all operators public health or the envir failed to adequately inve addition, OCD acceptance and/or regulations. Printed Name:		tifications and perform of OCD does not relieve th reat to groundwater, surf	corrective actions for rele ne operator of liability sh face water, human health pliance with any other fe anager	eases which may endanger ould their operations have or the environment. In
OCD Only Received by: Crist	ina Eads	Date: 01/2	21/2021	

Received by OCD: 10/15/2020 12:34:55 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 29 of	50
Incident ID	NAB1914957336	
District RP	2RP-5454	
Facility ID	30-015-31454	
Application ID	pAB1914956037	l

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Signature: Date: 10/14/2020
email: <u>Rpons@talonlpe.com</u> Telephone: <u>575-441-0980</u>
OCD Only
Received by: Cristina Eads Date: 01/21/2021
Approved With Attached Conditions of Approval Denied Deferral Approved
Signature: Autor Date: 01/21/2021

Page 5

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Page 30 of 50

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID ₆₁₃₇
Contact Name Amanda T. Davis	Contact Telephone 575-748-0176
Contact email amanda.davis@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers HWY	

Location of Release Source

Latitude 32.71680

Longitude -103.82510

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Shugart 25 Federal #1	Site Type Oil	
Date Release Discovered 11/27/2019	API# (if applicable)	

Unit Letter	Section	Township	Range	County
К	25	18S	31E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____

Nature and Volume of Release

Crude Oil	ial(s) Released (Select all that apply and attach calculations or specific Volume Released (bbls)	Volume Recovered (bbls)					
Produced Water	Volume Released (bbls) 400	Volume Recovered (bbls) 400					
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No					
Condensate	Volume Released (bbls)	Volume Recovered (bbls)					
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)					
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)					
Cause of Release Water tank over flowed due to transfer pump failure. Fluid stayed within containment.							

Re

•

orm C-141	State of New Mexico	Incident ID
ge 2	Oil Conservation Division	
		Facility ID
		Application ID
Was this a major release as defined by		esponsible party consider this a major release?
19.15.29.7(A) NMAC?	I his is considered a major f	elease because it is over 25 BBLS.
Yes No		
If VES was immediate n		o whom? When and by what means (phone, email, etc)?
Email notification se		.gov, Robert Hamlet, Jim Griswold, Victoria Venegas
	Initia	l Response
The responsible	party must undertake the following actions imm	ediately unless they could create a safety hazard that would result in injury
The source of the rel	asso has been stormed	
	as been secured to protect human healt	and the environment
		s or dikes, absorbent pads, or other containment devices.
	recoverable materials have been remov	
	ed above have <u>not</u> been undertaken, ex	
	<u> </u>	
has begun, please attach	a narrative of actions to date. If rem	ence remediation immediately after discovery of a release. If remediation edial efforts have been successfully completed or if the release occurr AC), please attach all information needed for closure evaluation.
I hereby certify that the inf	e required to report and/or file certain relea nment. The acceptance of a C-141 report b	to the best of my knowledge and understand that pursuant to OCD rules and se notifications and perform corrective actions for releases which may endange y the OCD does not relieve the operator of liability should their operations hav a threat to groundwater, surface water, human health or the environment. In
public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations.	of a C-141 report does not relieve the oper-	tor of responsibility for compliance with any other federal, state, or local laws
public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations.	of a C-141 report does not relieve the oper-	tor of responsibility for compliance with any other federal, state, or local laws
public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: Kendr Signature: Kendr	igate and remediate contamination that pose of a C-141 report does not relieve the oper Ira DeHoyos a DeHoyos hoyos@dvn.com	tor of responsibility for compliance with any other federal, state, or local laws

OCD Only

Received by: _____ Date: _____



APPENDIX IV

LABORATORY DATA

. Released to Imaging: 1/21/2021 3:32:46 PM



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 05, 2020

CHRIS JONES TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: SHUGART 25 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 03/02/20 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: W. COMP (H000660-01)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.89	94.6	2.00	3.00	
Toluene*	<0.050	0.050	03/03/2020	ND	1.90	94.9	2.00	2.81	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.91	95.4	2.00	2.84	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.52	92.0	6.00	2.81	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 97.7% 73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14900	16.0	03/03/2020	ND	432	108	400	0.00	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	314	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	62.1	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	86.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	100	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Ditreene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: N. COMP (H000660-02)

BTEX 8021B	mg	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/03/2020	ND	1.89	94.6	2.00	3.00	
Toluene*	<0.050	0.050	03/03/2020	ND	1.90	94.9	2.00	2.81	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.91	95.4	2.00	2.84	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.52	92.0	6.00	2.81	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.5 % 73.3-129

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	42.9	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	88.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.8	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celleg Z. Kerre-

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: E. COMP (H000660-03)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.89	94.6	2.00	3.00	
Toluene*	<0.050	0.050	03/03/2020	ND	1.90	94.9	2.00	2.81	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.91	95.4	2.00	2.84	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.52	92.0	6.00	2.81	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.5 % 73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	401	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	157	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	87.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the samplesi delified above. This reproduced except in full with written approval of Cardinal Laboratories.

Celley Ditreme-

Celey D. Keene, Lab Director/Quality Manager


PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number: Project Location:	700794.304.01 DEVON - LEA CO NM	Sample Received By:	Tamara Oldaker

Sample ID: S. COMP (H000660-04)

mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	03/03/2020	ND	1.89	94.6	2.00	3.00	
<0.050	0.050	03/03/2020	ND	1.90	94.9	2.00	2.81	
<0.050	0.050	03/03/2020	ND	1.91	95.4	2.00	2.84	
< 0.150	0.150	03/03/2020	ND	5.52	92.0	6.00	2.81	
<0.300	0.300	03/03/2020	ND					
	mg, Result <0.050 <0.050 <0.050 <0.150	mg/kg Result Reporting Limit <0.050	mg/kg Analyze Result Reporting Limit Analyzed <0.050	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <0.050	mg/kg Analyzed Method Blank BS Result Reporting Limit Analyzed Method Blank BS <0.050	mg/kg Analyzed Method Blank BS % Recovery <0.050	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	mg/kg Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 98.4 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	47600	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	87.2	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	90.1	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, whether based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Di treene

Released to Imaging: 1/21/2021 3:32:46 PM

Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 1 0-1' (H000660-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

.....

Surrogate: 4-Bromofluorobenzene (PIL 99.0 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	91.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.4	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whotsoever shall be deemed waived unless made in writing and received by Cardinal within (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samplesi dentified above. This reproduced except in full with written approval of Cardinal Laboratories.

Celleg Di Keene

Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

73.3-129

Sample ID: S - 1 2' (H000660-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	< 0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.8%

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	85.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.9	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim anising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in witing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incrude by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Di treene-

Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Project Location: Devon - LEA CO NM	Received: Reported: Project Name: Project Number: Project Location:	03/02/2020 03/05/2020 SHUGART 25 FED 1 700794.304.01 DEVON - LEA CO NM	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	02/26/2020 Soil Cool & Intact Tamara Oldaker
Project Location: Devon - Lea CO NM	,	DEVON - LEA CO NM		

Sample ID: S - 1 3' (H000660-07)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 98.2 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	92.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.1	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celleg Di treere

Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 1 4' (H000660-08)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.0 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC				to secondare	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	91.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.1	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or othervise. Results relate only to the samples identified above. This reproduced except in full with written approval of Cardinal Laboratories.

Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received: Reported: Project Name: Project Number: Project Location:	03/02/2020 03/05/2020 SHUGART 25 FED 1 700794.304.01 DEVON - LEA CO NM	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	02/26/2020 Soil Cool & Intact Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 2 0-1' (H000660-09)

BTEX 8021B	mg/	mg/kg		d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	< 0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.3 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	87.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.4	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Dithere

Celey D. Keene, Lab Director/Quality Manager

Page 10 of 23



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020	
Reported:	03/05/2020	Sampling Type:	Soil	
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact	
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker	
Project Location:	DEVON - LEA CO NM			

Sample ID: S - 2 2' R (H000660-10)

BTEX 8021B	mg	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.6% 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	192	96.0	200	1,25	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	90.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.4	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed vaived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celleg Di Keene

Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

.

Sample ID: S - 3 0-1' (H000660-11)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

......

Surrogate: 4-Bromofluorobenzene (PIE 99.6 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	87.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.1	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This reproduced except in full with written approval of Cardinal Laborations.

Celeg Di Keene

Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received: Reported: Project Name: Project Number: Project Location:	03/02/2020 03/05/2020 SHUGART 25 FED 1 700794.304.01 DEVON - LEA CO NM	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	02/26/2020 Soil Cool & Intact Tamara Oldaker
---	--	--	---

Sample ID: S - 3 2' (H000660-12)

BTEX 8021B	mg,	mg/kg		d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2,00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.3 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	89.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.1	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated resons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celleg Di Frence

Celey D. Keene, Lab Director/Quality Manager

Page 13 of 23



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 3 3' (H000660-13)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 98.8 % 73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	84.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.6	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received: 03/02/2020 Reported: 03/05/2020 Project Name: SHUGART 25 FED 1 Project Number: 700794.304.01 Project Location: DEVON - LEA CO NM	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	02/26/2020 Soil Cool & Intact Tamara Oldaker
--	--	---

Sample ID: S - 3 4' (H000660-14)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.8 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	83.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.8	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celleg Di Kerre-

Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number: Project Location:	700794.304.01 DEVON - LEA CO NM	Sample Received By:	Tamara Oldaker

Sample ID: S - 4 0-1' (H000660-15)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 98.7 % 73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	84.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.2	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This reproduced except in full with written approval of Cardinal Laboratories.

Celeg Di Keene

Celey D. Keene, Lab Director/Quality Manager

Page 16 of 23



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number: Project Location:	700794.304.01 DEVON - LEA CO NM	Sample Received By:	Tamara Oldaker

Sample ID: S - 4 2' R (H000660-16)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	< 0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIE 99.2 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2020	ND	171	85.7	200	3.17	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	182	90.8	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	74.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	80.4	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall note be reproduced except in full with written approval of Cardinal Laboratories.

Celleg Di Freene-

Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 5 0-1' (H000660-17)

BTEX 8021B	mg	/kg	Analyze	d By: MS			and the sufficient		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	< 0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

73.3-129

Surrogate: 4-Bromofluorobenzene (PIL 100 %

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2020	ND	177	88.5	200	0.342	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	166	82.8	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	82.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.6	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celleg Di treene

Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 5 2' (H000660-18)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2,14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIE 99.6 % 73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2020	ND	177	88.5	200	0.342	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	166	82.8	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	85.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.0	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including through the use of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Ditrene

Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 5 3' (H000660-19)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	< 0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 98.7 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2020	ND	177	88.5	200	0.342	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	166	82.8	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	87.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.1	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within (113) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incuded by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples indefined above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Ditrene

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Di Kune

Celey D. Keene, Lab Director/Quality Manager

Hall Environmental Analysis	Laboratory,	Inc.				Analytical Report Lab Order 2003045 Date Reported: 3/5/2020)
CLIENT: Talon Artesia		Cl	ient Sa	mple I	D: S-8	: 0'	
Project: Devon State Jr 1		(Collect	ion Dat	e: 2/2	8/2020 10:10:00 AM	
Lab ID: 2003045-008	Matrix: SOIL		Receiv	ved Dat	te: 3/3	/2020 9:00:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	ND	60		mg/Kg	20	3/3/2020 12:39:19 PM	50837
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	CLP
Diesel Range Organics (DRO)	29000	950		mg/Kg	100	3/3/2020 2:19:33 PM	50823
Motor Oil Range Organics (MRO)	15000	4800		mg/Kg	100	3/3/2020 2:19:33 PM	50823
Surr: DNOP	0	55.1-146	S	%Rec	100	3/3/2020 2:19:33 PM	50823
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst	NSB
Gasoline Range Organics (GRO)	460	20		mg/Kg	5	3/3/2020 10:58:47 AM	G66977
Surr: BFB	621	66.6-105	S	%Rec	5	3/3/2020 10:58:47 AM	G66977
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.11	0.099		mg/Kg	5	3/3/2020 10:58:47 AM	B66977
Toluene	1.1	0.20		mg/Kg	5	3/3/2020 10:58:47 AM	B66977
Ethylbenzene	1.8	0.20		mg/Kg	5	3/3/2020 10:58:47 AM	B66977
Xylenes, Total	12	0.40		mg/Kg	5	3/3/2020 10:58:47 AM	B66977
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	5	3/3/2020 10:58:47 AM	B66977

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 20

'f Cardinal canno	Relinquistred By Delivered By: (Circ Sampler - LIPS - Bus	ML PL	anayses. All claims including those carries. In no event chail Cardinal bi antifiates or successors action, out of [Res] in pruisshed Str.	PLEASE NOTE: Liability and Dame	2.2	1-5 g		6 0 0-	n in	3 6.0	11	(W.	Laio I.D. # 000640	FOR LAB USE ONLY	1	Project Name: SHUGALT	Project茶 Too Tqu	Phone * 575-6	CITY: ARTESIA	17	here	10 Company Name: (5)			
í accepí verbal changes. P	the Ome)	12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	or tegligence and any other sause whelsneve Itable for insidential or consequential damages Irabled to the batigmance of pervices there	2. R	0-1	Γ.	30	. 1-1 .	Comp	E.COMP	N. COMP	W.COMP	Sample I.D.	MUCHAEL COLLER	0LL	25 F		575-631-6977 Fax #:	N. IEXAS AVE	IRIS JONE	ALON CPE	10 5		borato	フリアショ
Carolinal cannot accept verbal changes. Pleass fax written.changes to (575) \$93-\$326	AD Received By:	Neceived By:	Indexes, At some include those for regilection and any other cause vibilitations register by vibility and provide the source of the source	Interview of the state of the s				5				~ . C V	(G)RAB OR (C)OMP, # CONTAINERS - GROUNDWATER WASTEWATER SOIL OIL	I I MATROC			Project Owner: DEUDN	N.F.	ATAN Zin-	-		VIN 88240 193-2476		Ories	2 2 3
to (575) 393-2326 . [A CHECKED BY:	1	ng and persive by Cadina within so uncertain p lions, these of use, or loss of public incurred by Saffa is bound upon any of its shave sinted n	111211 1111 111 11 11 12 11 11							-	5	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	IC PRESERV SAME INC.	弊.	State: Zip:	Oliv:	Address	Company: TALON	月日、柴、700744.304.01	and the second		¢.		
•	PG. 1 of 2		ard by the oligits for the ter completion of the applicable relient, its subsidiaries, ensons or altherwise.	1:10m VV	1:00	11:40sm	11:30an	11: 20-	11:00-	10.50	- 1	2	BTEX	N INC					UPE	94.01		•	CHAIN-OF-CL		
·.		Yes II No Add'I J Yes II No - Add'I J	•	2									TPH Total Chu	ORI	٥E	Ś					ANAL		JSTODY		3
-	1.	Add'l Phone 带 Add'l Fax来																•			VSIS REQUES		AND ANALYSIS.		
																•		,					REQUEST		

.

Received by OCD: 10/15/2020 12:34:55 PM

Page 55 of 50

Page 22 of 23

y Cardinal cannot accept verbal changes. Please far written changes to (676) 393-2326		szwiez. In a swintchall batilable für forditesial is enacedwantial damages, takilagi a swintes winter in Wolfig add powłed by Cadinal Wilfi a dags aller competiate of the applicable and the swinter and the	PIESENOTE: Unbility and Damagne. Conditaits instituty and olighte exclusive samedy for any count of the first of the state	5-5	/8 S-5 2"		2			NU		DWATER NATER E SE: OL	P. WATRIX PRESERVI	er MICHAEL COLLER	TEA CALLANTY Phone # .	me: SHUGAAT	TOD TALL SOLL DI DEVISOR DUMAN D.C.	State: N/M Zip: 68210	ass: 408 (N. TEXAS AVE	" CHRIS TONES	Principal Marine: TALON CPE	101 East Marland, Hobbs, NM 88240 (878) 393-2326 FAX (878) 393-2476		Laboratories .	2 APDIZAL	
· ·	Pt Jor J.	Werenpellen ef tre appliable y elen k subsidina, "Enne Result". <u>Yes No Ádd'i Phone %</u> "Pinne Result". <u>Yes No Ádd'i Phone %</u> "RativARKS;	vaid by the alignit (or the	3:00m / / /	2:400	2:30pm	2:000	1:50pm	1:400		ТРН		LOG	2112		-					ANATYRIA		CHAIN-OF-CUSTODY AND ANALYSIS. REQUEST		,	

.

,

1

Page 23 of 23

CONDITIONS
CONDITIONS

Action 10659

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 <u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

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 OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
TALON LPE	408 W Texas	Artesia, NM88210	329944	10659	C-141
OCD Reviewer	Condition				
ceads	Horizontal delineation	samples will meet the most stringent Table I	Closure Criteria.		