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Soil Assessment and Remediation Work Plan

Lone Tree Draw 13 State Com #002H

API# 30-015-40372

Talon Project # 700794.276.01

Prepared For:

Devon Energy Corporation
6488 Seven Rivers Highway
Artesia, NM 88210

Prepared By:

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

February 12, 2019

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

Subject: **Soil Assessment and Remediation Work Plan**
Lone Tree Draw 13 State Com #002H
API# 30-015-40372

Dear Mr. Bratcher,

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

Site Information

Lone Tree Draw 13 State Com #002H Central Tank Battery is located approximately nine (9) miles northeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter D, Section 13, Township 21 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.4871712 North and -104.1494293 West. A site plan 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 Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded. 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 eolian deposits. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico Office of the State Engineer web site indicates that the nearest ground water is 45' below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

Therefore the ranking for this site is a **20** based on the following:

Depth to ground water	<50'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of **20**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 100 mg/kg for TPH and 600 mg/kg for total chlorides.

Incident Description

On October 24, 2017, 20 barrels (bbls) of produced water were released into the lined containment of the tank battery. A vac truck was dispatched and recovered all 20 bbls of water.

On August 23, 2018, 2.214 barrels of crude oil were released into the separator battery area; no fluids were recovered.

On August 24, 2018, 5.336 bbls of produced water were released into the separator battery of which 5.0 bbls were recovered.

On August 30, 2018, a release consisting of 0.347 bbls of crude oil also occurred in the separator battery; no fluids were recovered. The initial C-141's are attached in [Appendix III](#).

Site Assessment

On October 10, 2018, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected within and around the impacted area utilizing a hand auger. Results from our initial sampling event are presented in the following data table. A complete laboratory report can be found in [Appendix IV](#).

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)
S-1	0	<0.300	32.0	<10.0	546	176	722
	1	<0.300	48.0	<10.0	126	26.9	152.9
	2	<0.300	64.0	<10.0	41.1	<10.0	41.1
Refusal							
S-2	0	0.494	32.0	<10.0	27.7	<10.0	27.7
	1	<0.300	32.0	<10.0	27.0	<10.0	27.0
	2	<0.300	32.0	<10.0	<10.0	<10.0	<10.0
Refusal	3	<0.300	32.0	<10.0	<10.0	<10.0	<10.0
S-3	0	83.8	<16.0	490	3640	554	4684
	1	109	48.0	475	1880	238	2593
	2	<0.300	64.0	<10.0	16.9	<10.0	16.9
Refusal							

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)
S-4	0	<0.300	48.0	<10.0	332	77.4	409.4
	1	<0.300	48.0	<10.0	<10.0	<10.0	<10.0
	2	<0.300	32.0	<10.0	20.2	<10.0	20.2
Refusal	3	<0.300	32.0	<10.0	<10.0	<10.0	<10.0
S-5	0	100	64.0	1300	8670	1030	11000
	1	4.46	48.0	65.4	1120	186	1371.4
	2	<0.300	<16.0	<10.0	62.6	16.3	78.9
	3	<0.300	48.0	<10.0	297	49.6	346.6
	4	<0.300	48.0	<10.0	58.9	11.1	70.0
S-6	0	93.2	80.0	863	8040	1110	10013
Refusal	0.5	67.7	96.0	639	9730	1560	11929

On January 15, 2019, Talon mobilized equipment and personnel to the site to carry out additional delineation activities. Soil samples were collected at greater depths with a backhoe in accessible areas not containing flowlines or infrastructure. Analytical results are presented in the following data table.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)
S-6	0	0.542	64.0	12.9	595	110	717.9
	2	<0.300	96.0	<10.0	10.0	<10.0	10.0
	4	<0.300	32.0	<10.0	<10.0	<10.0	<10.0
	6	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0
	8	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0
	10	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0
	12	<0.300	16.0	<10.0	<10.0	<10.0	<10.0
S-7	0	50.1	48.0	1410	8110	1430	10950
	2	<0.300	80.0	<10.0	109	73.1	182.1
	4	<0.300	48.0	<10.0	208	28.4	236.4
	6	<0.300	16.0	<10.0	<10.0	<10.0	<10.0
	8	<0.300	16.0	<10.0	14.2	<10.0	14.2
	10	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0
	12	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)
S-8	0	<0.300	128	<10.0	4560	1480	6040
	1	<0.300	448	<10.0	130	93.9	223.9
	2	<0.300	176	<10.0	38.7	19.6	58.3
	3	<0.300	80.0	<10.0	70.0	<10.0	70.0
S-9	0	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0
S-10	0	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0
S-11	0	<0.300	64.0	<10.0	<10.0	<10.0	<10.0
S-12	0	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0

Proposed Remedial Actions

- The impacted area in the vicinity of sample locations S-1 and S-3 will be excavated to a depth of 1.5-feet deep.
- The impacted area near sample location S-4 will be excavated to a depth of 1.0-feet deep.
- Excavation activities within the separator battery will be carried out by hand-work to a depth of 1.5-feet BGS. Potential limitations may exist due to safety concerns, the presence of infrastructure (separators, flow lines, electric lines, etc.) and hard rock refusal.
- Affected soil near sample location S-6 will be excavated to a depth of 1.0-feet BGS and a confirmation sample collected and analyzed for TPH. Should analytical results exceed 100 mg/kg, the excavation will continue to a depth of 2.0-feet deep.
- Excavation to a depth of 4.0-feet deep will occur at S-7.
- The excavated areas will be backfilled with new caliche. Once the backfilling activities are complete the work area will be machine compacted where possible and contoured to match the surrounding location.

- The tank battery liner will be evaluated and photo documentation of its integrity will be provided.
- All of the excavated material will be hauled to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- 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



Brandon Sinclair
Environmental Scientist



David J Adkins
District Manager

Attachments:

- Appendix I Site Plan
- Appendix II Groundwater Data
- Appendix III Initial C-141
- Appendix IV FEMA Flood Map
- Appendix V Photographic Documentation
- Appendix VI Laboratory Data

APPENDIX I

SITE PLAN

Lone Tree 13 State Com 2H

Devon Energy Corporation
Eddy County, NM
AP# 30-015-40372
Figure 1

271108

Devon Lone Tree 13

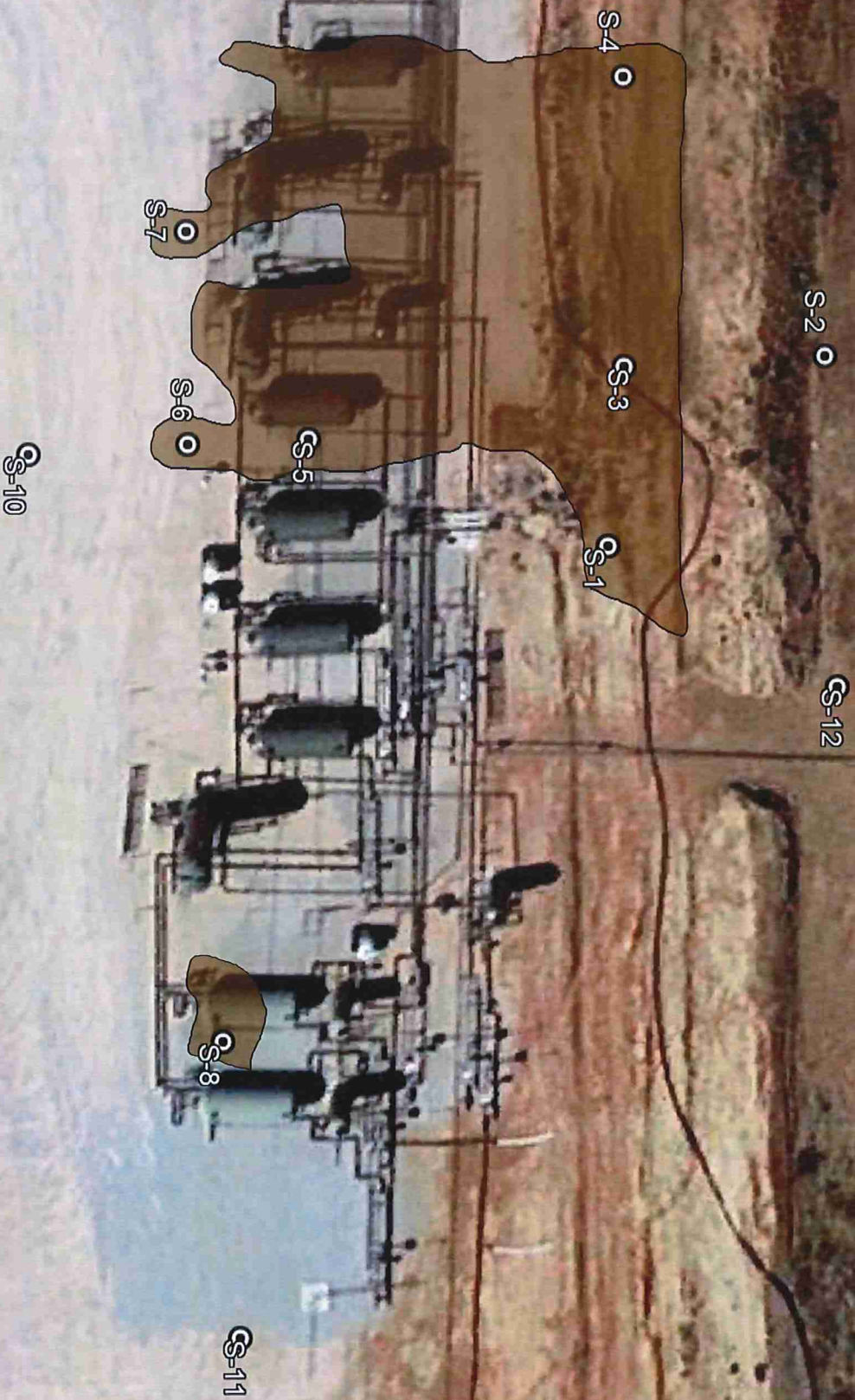


Google Earth

4000 ft



Devon Energy Corporation
Eddy County, NM
AP# 30-015-40372
Figure 2



Legend

-  Release
-  Sample Point

Google Earth

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100 ft

Received by OCD: 6/22/2023 7:58:12 AM

Released to Imaging: 6/22/2023 8:03:56 AM

APPENDIX II

GROUNDWATER DATA



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 serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)
(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 00473	C	CUB	ED	3	2	14	21S	27E			579087	3594177*	906	562		
C 00465	C	CUB	ED	3	2	1	14	21S	27E		578576	3594475*	1323			
C 03864 POD1		CUB	ED	2	4	4	13	21S	27E		581218	3593472	1733	160	45	115
C 00466	C	CUB	ED	3	3	1	14	21S	27E		578173	3594066*	1799	538		
C 03272 POD1		CUB	ED	4	3	1	18	21S	28E		581632	3594114*	1802	22	9	13
C 03607 POD1		CUB	ED	2	2	2	24	21S	27E		581145	3593139	1916	275	10	265
C 00370	C	CUB	ED	4	4	15	21S	27E			577874	3593350*	2370			
C 00469	C	CUB	ED	1	4	02	21S	27E			579078	3596994*	2537	767		
C 00314		C	ED	1	4	24	21S	27E			580742	3592180*	2555	397		
C 03268 POD1		CUB	ED	4	2	4	01	21S	27E		581201	3596915	2666	48	13	35
C 02992		C	ED	3	3	2	01	21S	27E		580594	3597311*	2808	250	186	64

Average Depth to Water: 52 feet
Minimum Depth: 9 feet
Maximum Depth: 186 feet

Record Count:11

UTMNAD83 Radius Search (in meters):

Easting (X): 579894

Northing (Y): 3594591

Radius: 3000

*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.

2/13/19 10:43 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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
serves a water right
file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to
largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_00473	C	CUB	ED	3	2	14	21S	27E		579087	3594177*	906	562		
C_00465	C	CUB	ED	3	2	1	14	21S	27E	578576	3594475*	1323			
C_03864 POD1		CUB	ED	2	4	4	13	21S	27E	581218	3593472	1733	160	45	115
C_00466	C	CUB	ED	3	3	1	14	21S	27E	578173	3594066*	1799	538		
C_03272 POD1		CUB	ED	4	3	1	18	21S	28E	581632	3594114*	1802	22	9	13
C_03607 POD1		CUB	ED	2	2	2	24	21S	27E	581145	3593139	1916	275	10	265
C_00370	C	CUB	ED	4	4	15	21S	27E		577874	3593350*	2370			
C_00469	C	CUB	ED	1	4	02	21S	27E		579078	3596994*	2537	767		
C_00314	C	ED		1	4	24	21S	27E		580742	3592180*	2555	397		
C_03268 POD1		CUB	ED	4	2	4	01	21S	27E	581201	3596915	2666	48	13	35
C_02992	C	ED		3	3	2	01	21S	27E	580594	3597311*	2808	250	186	64
C_03350	C	ED		1	4	2	01	21S	27E	580896	3597476	3054	76	8	68
C_01163	CUB	ED		4	4	24	21S	27E		581157	3591783*	3078	240		
C_00645	C	ED		1	1	25	21S	27E		579933	3591356*	3235	100	100	0
C_01692	C	ED		3	1	2	25	21S	27E	580649	3591270*	3405	250	178	72
C_01142	C	ED		3	1	4	03	21S	27E	577358	3596873*	3411	100		
C_03689 POD1	C	ED		1	1	2	01	21S	27E	580490	3598014	3475	95	10	85
CP_00627 POD2	CP	ED		1	2	3	17	21S	28E	583360	3593982	3518	175		
CP_00650	CP	ED		3	17		21S	28E		583347	3593612*	3589	155	35	120
C_00047 A	CUB	ED		2	3	2	26	21S	27E	579218	3591043*	3611	90	70	20
C_01349	C	ED		2	3	2	26	21S	27E	579218	3591043*	3611	395	45	350
CP_00529 POD1	CP	LE		1	2	3	17	21S	28E	583446	3593915*	3615	100		
CP_00527 POD1	CP	XX		3	2	3	17	21S	28E	583446	3593715*	3658	100		
CP_01744 POD1	CP	ED		3	2	3	17	21S	28E	583476	3593764	3675	90	82	8
CP_00576	CP	ED		1	4	3	17	21S	28E	583448	3593513*	3713	295	32	263
CP_00627	CP	ED		2	3	17	21S	28E		583547	3593816*	3734	154	30	124
C_03525 POD3	CUB	ED		1	1	1	01	21S	27E	579728	3598332	3744	30		
C_03525 POD4	CUB	ED		1	1	1	01	21S	27E	579728	3598362	3775	29		
C_03525 POD1	CUB	ED		1	1	1	01	21S	27E	579702	3598362	3776	31	20	11
C_03525 POD2	CUB	ED		2	2	2	02	21S	27E	579676	3598362	3777	29	20	9
C_01583	C	ED		3	3	2	25	21S	27E	580650	3590865*	3801	270	80	190
CP_00569	CP	ED		4	3	17	21S	28E		583549	3593414*	3839	71	50	21
C_00940	C	ED		4	4	2	25	21S	27E	581258	3590872*	3961	42	5	37

C 00940 POD2	C	ED	4	4	2	25	21S	27E	581258	3590872*		3961	72	20	52
C 03939 POD1	CUB	ED	1	1	3	25	21S	27E	579927	3590559		4031	19	9	10
C 03939 POD4	CUB	ED	4	1	3	25	21S	27E	579955	3590499		4091	12		
C 03939 POD5	CUB	ED	3	1	3	25	21S	27E	579921	3590493		4097	12		
C 03939 POD3	CUB	ED	3	1	3	25	21S	27E	579904	3590472		4118	19	8	11
C 03939 POD2	CUB	ED	3	1	3	25	21S	27E	579937	3590468		4122	19	7	12
C 01339	CUB	ED		1	4	09	21S	27E	575842	3595353*		4123	425	120	305
C 00047 EXPL	CUB	ED	3	2	4	26	21S	27E	579429	3590444*		4172	490		
CP 01710 POD1	CP	ED	1	3	4	17	21S	28E	583936	3593547		4174	160	151	9
CP 01710 POD2	CP	ED	1	3	4	17	21S	28E	583971	3593509		4218	160	149	11
C 02907	C	ED	3	2	1	03	21S	27E	576959	3597669*		4253	52	14	38
C 00973	C	ED		4	26	21S	27E	579327	3590338*		4290	80	32	48	
C 01835	C	ED	1	4	4	26	21S	27E	579432	3590241*		4374	58	5	53
C 00206	C	ED		2	4	21	21S	27E	576264	3592118*		4392	150		
C 00061	C	ED	1	2	4	21	21S	27E	576163	3592217*		4422	150		
C 00468	CUB	ED	3	4	4	26	21S	27E	579432	3590041*		4573	80		
C 00858	CUB	ED	4	4	3	25	21S	27E	580446	3590051*		4573	304		
C 00297	C	CH	1	1	2	35	21S	27E	579029	3589833*		4835	130	30	100
C 01330	C	ED	3	3	3	09	21S	27E	574941	3594849*		4959	92	80	12

Average Depth to Water: 51 feet
Minimum Depth: 5 feet
Maximum Depth: 186 feet

Record Count:52

UTMNAD83 Radius Search (in meters):

Easting (X): 579894

Northing (Y): 3594591

Radius: 5000

*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.

2/13/19 10:44 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX III

Initial C-141

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

Received on
11/6/17
OCD District II
Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Form C-141
Revised August 8, 2011

Release Notification and Corrective Action

Initial only

NAB1801735905		OPERATOR		☒ Initial Report	☒ Final Report
Name of Company Devon Energy Production Company 10/31		Contact Wesley Ryan, Production Foreman			
Address 6488 Seven Rivers Hwy Artesia, NM 88210		Telephone No. 575-390-5436			
Facility Name Lone Tree Draw 13 State Com 8H		Facility Type Oil			
Surface Owner State Private		Mineral Owner State		API No 30-015-41738	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	13	21S	27E	150	North	1980	East	Eddy

Latitude: 32.4872093

Longitude: -104.140892

NATURE OF RELEASE

Type of Release Produced Water (PW)	Volume of Release 20 BBLS	Volume Recovered 20 BBLS
Source of Release Storage Tank	Date and Hour of Occurrence 10/24/17 @ 12:45pm	Date and Hour of Discovery 3/11/2017 @ 12:45pm
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? OCD-Mike Bratcher & Crystal Weaver 10/24/17	
By Whom? Wesley Ryan-Production Foreman	Date and Hour OCD & BLM -10/24/2017 @7:16 pm (via e-mail)	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* A communication failure resulted in a tank spilling over into lined containment. The lines were isolated to prevent further release.		
Describe Area Affected and Cleanup Action Taken.* Approximately 20BBLS of PW was released from a tank that ran over due to a communication failure. A vacuum truck was called in and all the fluid was recovered. Repairs were made.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: Dana DeLaRosa	OIL CONSERVATION DIVISION	
Printed Name: Dana DeLaRosa	Approved by Environmental Specialist Crystal W	
Title: Field Admin Support	Approval Date: 11/16/18	Expiration Date: N/A
E-mail Address: Dana.Delarosa@dmv.com	Conditions of Approval: see attached	Attached ☒ APP-4501
Date: Phone: 575.746.5594		

* Attach Additional Sheets If Necessary

11/16/18 AB

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID
Contact Name Brett Fulks	Contact Telephone
Contact email brett.fulks@dvn.com	Incident # (assigned by OCD)
Contact mailing address PO Box 250, Artesia NM 88211	

Location of Release Source

Latitude 32.4871712 Longitude -104.1494293
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Lone Tree 13 State Com 2H	Site Type Oil
Date Release Discovered 8/23/2018	API# (if applicable) 30-015-40372

Unit Letter	Section	Township	Range	County
D	13	21S	27E	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) 2,214	Volume Recovered (bbls) None
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice 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

☒ 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 <u>not</u> 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.	
Printed Name: <u>Dana DeLaRosa</u>	Title: <u>Field Admin Support</u>
Signature: _____	Date: _____
email: <u>dana.delarosa@dvn.com</u>	Telephone: <u>575.748.3371</u>
<u>OCD Only</u>	
Received by: _____	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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID
Contact Name Brett Fulks	Contact Telephone
Contact email brett.fulks@dvn.com	Incident # (assigned by OCD)
Contact mailing address PO Box 250, Artesia NM 88211	

Location of Release Source

Latitude 32.4871712 Longitude -104.1494293
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Lone Tree 13 State Com 2H	Site Type Oil
Date Release Discovered 8/24/2018	API# (if applicable) 30-015-40372

Unit Letter	Section	Township	Range	County
D	13	21S	27E	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) 5.336	Volume Recovered (bbls) 5.0
	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

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice 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

☒ 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 <u>not</u> 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.	
Printed Name: Dana DeLaRosa	Title: Field Admin Support
Signature: _____	Date: _____
email: dana.delarosa@dvn.com	Telephone: 575.748.3371
OCD Only	
Received by: _____	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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID
Contact Name Brett Fulks	Contact Telephone
Contact email brett.fulks@dvn.com	Incident # (assigned by OCD)
Contact mailing address PO Box 250, Artesia NM 88211	

Location of Release Source

Latitude 32.4871712 Longitude -104.1494293
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Lone Tree 13 State Com 2H	Site Type Oil
Date Release Discovered 8/30/2018	API# (if applicable) 30-015-40372

Unit Letter	Section	Township	Range	County
D	13	21S	27E	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) .347bbls	Volume Recovered (bbls) None
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

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☒ 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 <u>not</u> 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.	
Printed Name: <u>Dana DeLaRosa</u>	Title: <u>Field Admin Support</u>
Signature: _____	Date: _____
email: <u>dana.delarosa@dvn.com</u>	Telephone: <u>575.748.3371</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

APPENDIX IV

FEMA Flood Map

National Flood Hazard Layer FIRMette



32°29'28.99"N



USGS The National Map: Orthoimagery. Data refreshed October 2017.

32°28'58.64"N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	
Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway	

0.2% 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 1)	
Future Conditions 1% Annual Chance Flood Hazard Zone X	
Area with Reduced Flood Risk due to Levee. See Notes, Zone X	
Area with Flood Risk due to Levee Zone D	

OTHER AREAS OF FLOOD HAZARD	
NO SCREEN	Area of Minimal Flood Hazard Zone X
Effective LOMRS	
Area of Undetermined Flood Hazard Zone	
GENERAL STRUCTURES	
Channel, Culvert, or Storm Sewer	
Levee, Dike, or Floodwall	

OTHER FEATURES	
Cross Sections with 1% Annual Chance Water Surface Elevation	
Coastal Transect	
Base Flood Elevation Line (BFE)	
Limit of Study	
Jurisdiction Boundary	
Coastal Transect Baseline	
Profile Baseline	
Hydrographic Feature	

MAP PANELS	
Digital Data Available	
No Digital Data Available	
Unmapped	

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 FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/11/2019 at 1:31:43 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 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 identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Zone D

Designation on National Flood Insurance Program maps used for areas where there are possible, but undetermined, flood hazards. In areas designated as Zone D, no analysis of flood hazards has been conducted. Mandatory flood insurance purchase requirements do not apply, but coverage is available. The flood insurance rates for properties in Zone D are commensurate with the uncertainty of the flood risk.

Zone V

The flood insurance rate zone that corresponds to the 100-year coastal floodplains that have additional hazards associated with storm waves. Because approximate hydraulic analyses are performed for such areas, no Base Flood Elevations are shown within this zone. Mandatory flood insurance purchase requirements apply.

Zone VE

The flood insurance rate zone that corresponds to the 100-year coastal floodplains that have additional hazards associated with storm waves. Base Flood Elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone. Mandatory flood insurance purchase requirements apply.

Zone B, C, and X

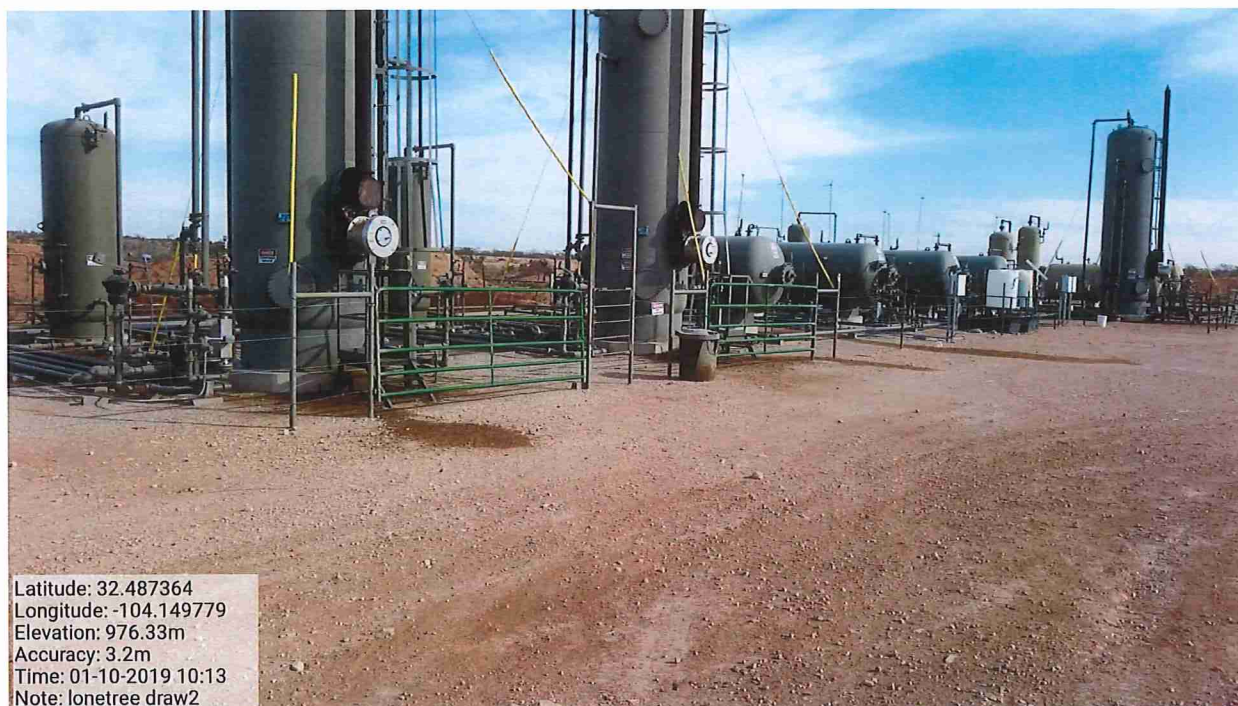
Zones B, C, and X are the flood insurance rate zones that correspond to areas outside the 100-year floodplains, areas of 100-year sheet flow flooding where average depths are less than 1 foot, areas of 100-year stream flooding where the contributing drainage area is less than 1 square mile, or areas protected from the 100-year flood by levees. No Base Flood Elevations or depths are shown within this zone.

APPENDIX V

Photographic Documentation

Initial Site Assessment Photos

South side of separator battery/spill area







North side of spill area



APPENDIX VI

LABORATORY REPORTS



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

October 18, 2018

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LONE TREE DRAW #13

Enclosed are the results of analyses for samples received by the laboratory on 10/11/18 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 accredited 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. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 1 0' (H802901-01)

BTX 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	10/12/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/12/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	6.00	100	6.00	0.256	
Total BTX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 95.4 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	546	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	176	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 85.7 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 1 1' (H802901-02)

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	10/12/2018	ND	2.10	105	2.00	2.49	
Toluene*	<0.050	0.050	10/12/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	6.17	103	6.00	3.69	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PII) 112 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	126	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	26.9	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 94.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 1 2' (H802901-03)

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	10/12/2018	ND	2.10	105	2.00	2.49	
Toluene*	<0.050	0.050	10/12/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	6.17	103	6.00	3.69	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	41.1	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 92.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 2 0' (H802901-04)

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	10/12/2018	ND	2.10	105	2.00	2.49	
Toluene*	<0.050	0.050	10/12/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	0.056	0.050	10/12/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	0.438	0.150	10/12/2018	ND	6.17	103	6.00	3.69	
Total BTEX	0.494	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	27.7	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 84.5 % 41-142

Surrogate: 1-Chlorooctadecane 85.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 2 1' (H802901-05)

BTX 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	10/12/2018	ND	2.10	105	2.00	2.49	
Toluene*	<0.050	0.050	10/12/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	6.17	103	6.00	3.69	
Total BTX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2018	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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	27.0	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 94.1 % 41-142

Surrogate: 1-Chlorooctadecane 96.0 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 2 2' (H802901-06)

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	10/12/2018	ND	2.10	105	2.00	2.49	
Toluene*	<0.050	0.050	10/12/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	6.17	103	6.00	3.69	
Total BTEx	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2018	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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 88.2 % 37.6-147

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager

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Received by OCD: 6/22/2023 7:58:12 AM
Released to Imaging: 6/22/2023 8:03:56 AM



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 2 3' (H802901-07)

BTX 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	10/12/2018	ND	2.10	105	2.00	2.49	
Toluene*	<0.050	0.050	10/12/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	6.17	103	6.00	3.69	
Total BTX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2018	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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 89.2 % 41-142

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 3 0' (H802901-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/12/2018	ND	2.10	105	2.00	2.49	
Toluene*	12.3	0.500	10/12/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	10.6	0.500	10/12/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	60.9	1.50	10/12/2018	ND	6.17	103	6.00	3.69	
Total BTX	83.8	3.00	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 133 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	490	10.0	10/12/2018	ND	192	96.2	200	0.369		
DRO >C10-C28*	3640	10.0	10/12/2018	ND	189	94.3	200	0.397		
EXT DRO >C28-C36	554	10.0	10/12/2018	ND						

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 200 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 3 1' (H802901-09)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/18/2018	ND	2.10	105	2.00	2.49	
Toluene*	16.9	0.200	10/18/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	16.5	0.200	10/18/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	76.0	0.600	10/18/2018	ND	6.17	103	6.00	3.69	
Total BTX	109	1.20	10/18/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 181 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	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*	475	10.0	10/17/2018	ND	203	101	200	4.75	QM-07
DRO >C10-C28*	1880	10.0	10/17/2018	ND	205	102	200	0.512	QM-07
EXT DRO >C28-C36	238	10.0	10/17/2018	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 135 % 37.6-147

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 3 2' (H802901-10)

BTX 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	10/18/2018	ND	1.85	92.5	2.00	1.02	QM-07, QR-03
Toluene*	<0.050	0.050	10/18/2018	ND	1.76	87.9	2.00	0.828	QR-03
Ethylbenzene*	<0.050	0.050	10/18/2018	ND	1.75	87.7	2.00	1.15	QR-03
Total Xylenes*	<0.150	0.150	10/18/2018	ND	5.33	88.9	6.00	1.10	QR-03
Total BTX	<0.300	0.300	10/18/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 115 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/16/2018	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	10/17/2018	ND	203	101	200	4.75	
DRO >C10-C28*	16.9	10.0	10/17/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	<10.0	10.0	10/17/2018	ND					

Surrogate: 1-Chlorooctane 73.7 % 41-142

Surrogate: 1-Chlorooctadecane 68.6 % 37.6-147

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Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 4 0' (H802901-11)

BTX 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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	<0.050	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	0.251	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.0 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	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	10/12/2018	ND	203	101	200	4.75	
DRO >C10-C28*	332	10.0	10/12/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	77.4	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 97.7 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 4 1' (H802901-12)

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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	<0.050	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTEx	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 98.3 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	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	10/12/2018	ND	203	101	200	4.75	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 4 2' (H802901-13)

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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	<0.050	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTEx	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.2 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2018	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	10/12/2018	ND	203	101	200	4.75	
DRO >C10-C28*	20.2	10.0	10/12/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 96.1 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 4 3' (H802901-14)

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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	<0.050	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTEX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.1 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2018	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	10/12/2018	ND	203	101	200	4.75	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 93.1 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 5 0' (H802901-15)

BTEx 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	12.0	0.500	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	11.6	0.500	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	76.4	1.50	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTEX	100	3.00	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 69.8-142

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/16/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1300	10.0	10/12/2018	ND	203	101	200	4.75		
DRO >C10-C28*	8670	10.0	10/12/2018	ND	205	102	200	0.512		
EXT DRO >C28-C36	1030	10.0	10/12/2018	ND						

Surrogate: 1-Chlorooctane 212 % 41-142

Surrogate: 1-Chlorooctadecane 181 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 5 1' (H802901-16)

BTX 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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	0.348	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	0.566	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	3.55	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTX	4.46	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 120 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	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*	65.4	10.0	10/12/2018	ND	203	101	200	4.75	
DRO >C10-C28*	1120	10.0	10/12/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	186	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 99.1 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 5 2' (H802901-17)

BTX 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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	<0.050	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.5 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2018	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	10/12/2018	ND	203	101	200	4.75	
DRO >C10-C28*	62.6	10.0	10/12/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	16.3	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 99.7 % 41-142

Surrogate: 1-Chlorooctadecane 90.4 % 37.6-147

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Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 5 3' (H802901-18)

BTX 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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	<0.050	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 98.8 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	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	10/13/2018	ND	203	101	200	4.75	
DRO >C10-C28*	297	10.0	10/13/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	49.6	10.0	10/13/2018	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 5 4' (H802901-19)

BTX 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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	<0.050	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.0 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	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	10/13/2018	ND	203	101	200	4.75	
DRO >C10-C28*	58.9	10.0	10/13/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	11.1	10.0	10/13/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 6 0' (H802901-20)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	9.86	0.200	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	11.8	0.200	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	71.6	0.600	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTEX	93.2	1.20	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 133 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/16/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	863	10.0	10/13/2018	ND	203	101	200	4.75		
DRO >C10-C28*	8040	10.0	10/13/2018	ND	205	102	200	0.512		
EXT DRO >C28-C36	1110	10.0	10/13/2018	ND						

Surrogate: 1-Chlorooctane 193 % 41-142

Surrogate: 1-Chlorooctadecane 242 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 6 0.5' (H802901-21)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	6.30	0.200	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	8.31	0.200	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	53.1	0.600	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTX	67.7	1.20	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 126 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/16/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	639	10.0	10/13/2018	ND	203	101	200	4.75		
DRO >C10-C28*	9730	10.0	10/13/2018	ND	205	102	200	0.512		
EXT DRO >C28-C36	1560	10.0	10/13/2018	ND						

Surrogate: 1-Chlorooctane 173 % 41-142

Surrogate: 1-Chlorooctadecane 281 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



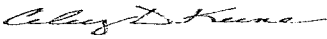
PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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 SM4500Cl-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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

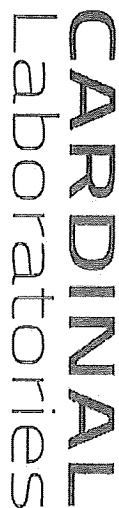
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Talon LPE</u>		P.O. #: <u>700794.276.0</u>		ANALYSIS REQUEST	
Project Manager: <u>DAVID ADKINS</u>		Company: <u>Talon LPE</u>			
Address: <u>408 W. Texas Ave</u>		City: <u>Artesia</u>			
State: <u>NM</u> Zip: <u>88210</u>		Address:			
Phone #: <u>575-441-4835</u> Fax #:		City:			
Project #: <u>700794.276.0</u> Project Owner: <u>Deleon</u>		State:			
Project Name: <u>Love Tree Draw #13</u>		Zip:			
Project Location: <u>6ddy Co NM</u>		Phone #:			
Sampler Name: <u>Mike Diller</u>		Fax #:			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H802901	S-1 0'	G	1							10/19/18		BTBX
	S-1 1'											TPH
	S-1 2'											chlorides
	S-2 0'											
	S-2 1'											
	S-2 2'											
	S-2 3'											
	S-3 0'											
	S-3 1'											
	S-3 2'											

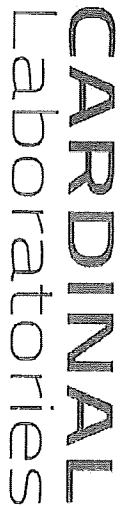
Reinquished By: <u>DL</u>	Date: <u>10-11-18</u>	Received By: <u>David Adkins</u>	Date: <u>10-11-18</u>
Delivered By: <u>David Adkins</u>	Date: <u>10-11-18</u>	Received By: <u>David Adkins</u>	Date: <u>10-11-18</u>
Sampler - UPS - Bus - Other: <u>1.2e</u>		Sample Condition: <u>Intact</u>	CHECKED BY: <u>DA</u>
		Cool: <u>Yes</u>	(Initials)
		No: <u>No</u>	
		No: <u>No</u>	

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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January 21, 2019

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LONE TREE

Enclosed are the results of analyses for samples received by the laboratory on 01/16/19 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 accredited 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. Keene

Lab Director/Quality Manager

Page 58 of 167
Received by OCD: 6/22/2023 7:58:12 AM
Released to Imaging: 6/22/2023 8:03:56 AM



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 6 0' (H900150-01)

BTX 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	01/17/2019	ND	1.90	94.9	2.00	3.85	
Toluene*	<0.050	0.050	01/17/2019	ND	2.10	105	2.00	3.13	
Ethylbenzene*	0.088	0.050	01/17/2019	ND	1.94	96.8	2.00	8.73	
Total Xylenes*	0.454	0.150	01/17/2019	ND	5.69	94.8	6.00	5.30	
Total BTX	0.542	0.300	01/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	64.0	16.0	01/17/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.9	10.0	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	595	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	110	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 95.5 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 6 2' (H900150-02)

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	01/18/2019	ND	2.01	101	2.00	0.428		
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77		
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07		
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964		
Total BTEX	<0.300	0.300	01/18/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	96.0	16.0	01/17/2019	ND	400	100	400	3.92			

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	01/16/2019	ND	215	108	200	0.773		
DRO >C10-C28*	10.0	10.0	01/16/2019	ND	202	101	200	2.58		
EXT DRO >C28-C36	<10.0	10.0	01/16/2019	ND						

Surrogate: 1-Chlorooctane 88.6 % 41-142

Surrogate: 1-Chlorooctadecane 85.3 % 37.6-147

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 6 4' (H900150-03)

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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTEX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 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	32.0	16.0	01/17/2019	ND	400	100	400	3.92		

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	<10.0	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 84.9 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 6 6' (H900150-04)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	3.92	

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	<10.0	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 83.5 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 6 8' (H900150-05)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	3.92	

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	<10.0	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 82.8 % 37.6-147

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Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 6 10' (H900150-06)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	3.92	

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	<10.0	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 82.5 % 41-142

Surrogate: 1-Chlorooctadecane 78.0 % 37.6-147

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*=Accredited Analyte

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 6 12' (H900150-07)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 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	16.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	<10.0	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 88.9 % 41-142

Surrogate: 1-Chlorooctadecane 86.7 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 7 0' (H900150-08)

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	01/21/2019	ND	2.01	101	2.00	0.428	
Toluene*	2.85	1.00	01/21/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	8.56	1.00	01/21/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	38.7	3.00	01/21/2019	ND	5.76	96.1	6.00	0.964	
Total BTEX	50.1	6.00	01/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 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	48.0	16.0	01/17/2019	ND	400	100	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1410	10.0	01/16/2019	ND	215	108	200	0.773		
DRO >C10-C28*	8110	10.0	01/16/2019	ND	202	101	200	2.58		
EXT DRO >C28-C36	1430	10.0	01/16/2019	ND						

Surrogate: 1-Chlorooctane 135 % 41-142

Surrogate: 1-Chlorooctadecane 293 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 7 2' (H900150-09)

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	01/21/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/21/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/21/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/21/2019	ND	5.76	96.1	6.00	0.964	
Total BTEx	<0.300	0.300	01/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 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	80.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	109	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	73.1	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: 01/16/2019
Reported: 01/21/2019
Project Name: LONE TREE
Project Number: NONE GIVEN
Project Location: DEVON - EDDY CO NM

Sampling Date: 01/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 7 4' (H900150-10)

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	01/21/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/21/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/21/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/21/2019	ND	5.76	96.1	6.00	0.964	
Total BTEX	<0.300	0.300	01/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	48.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	208	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	28.4	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 82.5 % 41-142

Surrogate: 1-Chlorooctadecane 83.3 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/16/2019
Reported: 01/21/2019
Project Name: LONE TREE
Project Number: NONE GIVEN
Project Location: DEVON - EDDY CO NM

Sampling Date: 01/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 7 6' (H900150-11)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 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	16.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	<10.0	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 84.4 % 41-142

Surrogate: 1-Chlorooctadecane 80.0 % 37.6-147

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 7 8' (H900150-12)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	16.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	14.2	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 85.5 % 41-142

Surrogate: 1-Chlorooctadecane 86.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 7 10' (H900150-13)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 91.2 % 41-142

Surrogate: 1-Chlorooctadecane 86.4 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 7 12' (H900150-14)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 94.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 8 0' (H900150-15)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 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	128	16.0	01/17/2019	ND	400	100	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/18/2019	ND	215	108	200	2.39		
DRO >C10-C28*	4560	10.0	01/18/2019	ND	217	109	200	6.33		
EXT DRO >C28-C36	1480	10.0	01/18/2019	ND						

Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 300 % 37.6-147

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Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 8 1' (H900150-16)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	448	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	130	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	93.9	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 89.5 % 41-142

Surrogate: 1-Chlorooctadecane 87.7 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 8 2' (H900150-17)

BTX 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	01/19/2019	ND	1.88	94.0	2.00	1.97	
Toluene*	<0.050	0.050	01/19/2019	ND	1.80	89.8	2.00	0.340	
Ethylbenzene*	<0.050	0.050	01/19/2019	ND	1.79	89.6	2.00	1.79	
Total Xylenes*	<0.150	0.150	01/19/2019	ND	5.40	90.0	6.00	1.54	
Total BTX	<0.300	0.300	01/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 98.8 % 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	176	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	38.7	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	19.6	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 86.9 % 41-142

Surrogate: 1-Chlorooctadecane 85.4 % 37.6-147

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Celest D. Keene

Celest D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 8 3' (H900150-18)

BTX 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	01/19/2019	ND	1.88	94.0	2.00	1.97	
Toluene*	<0.050	0.050	01/19/2019	ND	1.80	89.8	2.00	0.340	
Ethylbenzene*	<0.050	0.050	01/19/2019	ND	1.79	89.6	2.00	1.79	
Total Xylenes*	<0.150	0.150	01/19/2019	ND	5.40	90.0	6.00	1.54	
Total BTX	<0.300	0.300	01/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	80.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	70.0	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 87.1 % 41-142

Surrogate: 1-Chlorooctadecane 83.2 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 9 0' (H900150-19)

BTX 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	01/19/2019	ND	1.88	94.0	2.00	1.97		
Toluene*	<0.050	0.050	01/19/2019	ND	1.80	89.8	2.00	0.340		
Ethylbenzene*	<0.050	0.050	01/19/2019	ND	1.79	89.6	2.00	1.79		
Total Xylenes*	<0.150	0.150	01/19/2019	ND	5.40	90.0	6.00	1.54		
Total BTX	<0.300	0.300	01/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	7.69			

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	01/18/2019	ND	215	108	200	2.39		
DRO >C10-C28*	<10.0	10.0	01/18/2019	ND	217	109	200	6.33		
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND						

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 87.7 % 37.6-147

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 10 0' (H900150-20)

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	01/19/2019	ND	1.88	94.0	2.00	1.97	
Toluene*	<0.050	0.050	01/19/2019	ND	1.80	89.8	2.00	0.340	
Ethylbenzene*	<0.050	0.050	01/19/2019	ND	1.79	89.6	2.00	1.79	
Total Xylenes*	<0.150	0.150	01/19/2019	ND	5.40	90.0	6.00	1.54	
Total BTEX	<0.300	0.300	01/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 11 0' (H900150-21)

BTX 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	01/18/2019	ND	2.36	118	2.00	1.28	
Toluene*	<0.050	0.050	01/18/2019	ND	2.25	113	2.00	0.963	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	2.18	109	2.00	0.0622	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	6.70	112	6.00	0.590	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 98.9 % 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	64.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 83.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 12 0' (H900150-22)

BTX 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	01/19/2019	ND	1.88	94.0	2.00	1.97	
Toluene*	<0.050	0.050	01/19/2019	ND	1.80	89.8	2.00	0.340	
Ethylbenzene*	<0.050	0.050	01/19/2019	ND	1.79	89.6	2.00	1.79	
Total Xylenes*	<0.150	0.150	01/19/2019	ND	5.40	90.0	6.00	1.54	
Total BTX	<0.300	0.300	01/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 94.6 % 41-142

Surrogate: 1-Chlorooctadecane 91.2 % 37.6-147

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CELEY D. KEENE

Celey D. Keene, Lab Director/Quality Manager



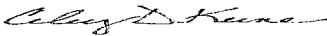
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Notes and Definitions

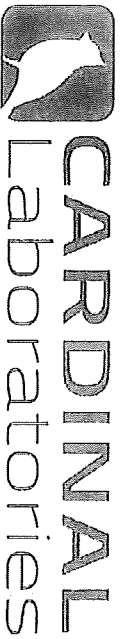
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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 SM4500Cl-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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Maryland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

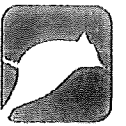
Company Name: <u>Talon</u>		P.O. #:		ANALYSIS REQUEST									
Project Manager: <u>CS</u>		Company: <u>Talon</u>											
Address: <u>468 W. 1st St</u>		Attn: <u></u>											
City: <u>Artesia</u>		Address: <u></u>											
Phone #: <u>631-6577</u>		Fax #: <u></u>											
Project #:		City: <u></u>											
Project Name: <u>Love Time</u>		State: <u></u> Zip: <u></u>											
Project Location: <u>Bddy, NM</u>		Phone #: <u></u>											
Sampler Name: <u>M.C.</u>		Fax #: <u></u>											

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
H900150													
1	S-4	0	1							1-15-11	1200	1	TPH Ext
2	S-4	2									1200	1	BTEX
3	S-4	4									1200	1	Chlorides
4	S-6	4									1200	1	
5	S-6	8									1200	1	
6	S-6	10									1200	1	
7	S-4	12									1230	1	
8	S-7	0									1230	1	
9	S-7	2									1230	1	
10	S-7	4									1230	1	

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Walter E. Llo</u>	Date: <u>1-16-19</u>	Received By: <u>Carolina Alarcon</u>	Phone Result: ☐ Yes ☐ No	Add'l Phone #: <u></u>
Relinquished By: <u></u>	Date: <u></u>	Received By: <u></u>	Fax Result: ☐ Yes ☐ No	Add'l Fax #: <u></u>
Delivered By: (Circle One) <u>UPS</u>	Sample Condition: ☒ Intact ☐ Damaged	CHECKED BY: <u>Walter E. Llo</u>	REMARKS: <u></u>	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Talon</u>		P.O. #:	
Project Manager: <u>CSores</u>		Company:	
Address: <u>408 W. Texas</u>		Attn:	
City: <u>Albia</u> State: <u>NM</u> Zip: <u>88212</u>		Address:	
Phone #: <u>531-6977</u> Fax #:		City:	
Project #:		State:	
Project Name: <u>Low Tree</u>		Zip:	
Project Location: <u>Eddy, NM</u>		Phone #:	
Sampler Name: <u>M. C.</u>		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	ANALYSIS REQUEST						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL			OTHER :	TPH Ext	BTEx	Chlorides			
H90015D																				
11	5-7	6										1-15-19	1230							
12	5-7	8											1230							
13	5-7	10											1230							
14	5-7	12											1230							
15	5-8	0											100							
16	5-8	1											150							
17	5-8	2											200							
18	5-8	3											205							
19	5-9	0											120							
20	5-10	0											105							

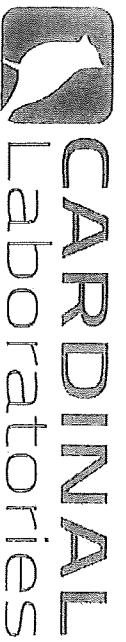
PLEASE NOTE: Liability and damages, materials liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed 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 interruption, loss of use, or loss of profit incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal. Records of weather such as rain is noted upon any of the above dated reports or otherwise.

Relinquished By: <u>Michelle</u>	Date: <u>1-16-19</u>	Time: <u>11:45 AM</u>	Received By: <u>Jonathan Delatorre</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____

Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>#97</u>	Sample Condition Cool ☒ Intact ☒ Yes ☒ No ☐	CHECKED BY: <u>[Signature]</u>
---	--	--------------------------------

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #: _____
Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #: _____
REMARKS: _____

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Maryland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Talco

Project Manager: CSoros

Address: 408 W. Texas

City: Alameda State: NM Zip: 88212

Phone #: 531-6977 Fax #:

Project #: Project Owner: Talco

Project Name: low tree

Project Location: Edg, NM

Sample Name: M.C.

FOR LAB USE ONLY

Lab I.D. Sample I.D.

1900150

21 5-11 0
22 5-12 0

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE / COOL
OTHER :

DATE TIME

1-15-11 11:00
11:15

TPH Ext
BTEX
Chlorides

ANALYSIS REQUEST

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether stated in contract or not, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: M.H. L. L. Date: 1-16-11 Received By: Janet A. Delaney

Relinquished By: M.H. L. L. Date: 1-16-11 Received By: Janet A. Delaney

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: #97 -2.1c

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐
No ☐ Yes ☒

CHECKED BY: [Signature]

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:
Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS:

talonlpe.com • 866.742.0742



Soil Assessment and Remediation Work Plan

Lone Tree Draw 13 State Com #002H

API# 30-015-40372

Talon Project # 700794.276.01

Prepared For:

Devon Energy Corporation
6488 Seven Rivers Highway
Artesia, NM 88210

Prepared By:

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

February 12, 2019

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

Subject: **Soil Assessment and Remediation Work Plan**
Lone Tree Draw 13 State Com #002H
API# 30-015-40372

Dear Mr. Bratcher,

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

Site Information

Lone Tree Draw 13 State Com #002H Central Tank Battery is located approximately nine (9) miles northeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter D, Section 13, Township 21 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.4871712 North and -104.1494293 West. A site plan 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 Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded. 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 eolian deposits. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico Office of the State Engineer web site indicates that the nearest ground water is 45' below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

Therefore the ranking for this site is a **20** based on the following:

Depth to ground water	<50'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of **20**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 100 mg/kg for TPH and 600 mg/kg for total chlorides.

Incident Description

On October 24, 2017, 20 barrels (bbls) of produced water were released into the lined containment of the tank battery. A vac truck was dispatched and recovered all 20 bbls of water.

On August 23, 2018, 2.214 barrels of crude oil were released into the separator battery area; no fluids were recovered.

On August 24, 2018, 5.336 bbls of produced water were released into the separator battery of which 5.0 bbls were recovered.

On August 30, 2018, a release consisting of 0.347 bbls of crude oil also occurred in the separator battery; no fluids were recovered. The initial C-141's are attached in [Appendix III](#).

Site Assessment

On October 10, 2018, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected within and around the impacted area utilizing a hand auger. Results from our initial sampling event are presented in the following data table. A complete laboratory report can be found in [Appendix IV](#).

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)
S-1	0	<0.300	32.0	<10.0	546	176	722
	1	<0.300	48.0	<10.0	126	26.9	152.9
Refusal	2	<0.300	64.0	<10.0	41.1	<10.0	41.1
S-2	0	0.494	32.0	<10.0	27.7	<10.0	27.7
	1	<0.300	32.0	<10.0	27.0	<10.0	27.0
	2	<0.300	32.0	<10.0	<10.0	<10.0	<10.0
Refusal	3	<0.300	32.0	<10.0	<10.0	<10.0	<10.0
S-3	0	83.8	<16.0	490	3640	554	4684
	1	109	48.0	475	1880	238	2593
Refusal	2	<0.300	64.0	<10.0	16.9	<10.0	16.9

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)
S-4	0	<0.300	48.0	<10.0	332	77.4	409.4
	1	<0.300	48.0	<10.0	<10.0	<10.0	<10.0
	2	<0.300	32.0	<10.0	20.2	<10.0	20.2
Refusal	3	<0.300	32.0	<10.0	<10.0	<10.0	<10.0
S-5	0	100	64.0	1300	8670	1030	11000
	1	4.46	48.0	65.4	1120	186	1371.4
	2	<0.300	<16.0	<10.0	62.6	16.3	78.9
	3	<0.300	48.0	<10.0	297	49.6	346.6
	4	<0.300	48.0	<10.0	58.9	11.1	70.0
S-6	0	93.2	80.0	863	8040	1110	10013
Refusal	0.5	67.7	96.0	639	9730	1560	11929

On January 15, 2019, Talon mobilized equipment and personnel to the site to carry out additional delineation activities. Soil samples were collected at greater depths with a backhoe in accessible areas not containing flowlines or infrastructure. Analytical results are presented in the following data table.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)
S-6	0	0.542	64.0	12.9	595	110	717.9
	2	<0.300	96.0	<10.0	10.0	<10.0	10.0
	4	<0.300	32.0	<10.0	<10.0	<10.0	<10.0
	6	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0
	8	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0
	10	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0
	12	<0.300	16.0	<10.0	<10.0	<10.0	<10.0
S-7	0	50.1	48.0	1410	8110	1430	10950
	2	<0.300	80.0	<10.0	109	73.1	182.1
	4	<0.300	48.0	<10.0	208	28.4	236.4
	6	<0.300	16.0	<10.0	<10.0	<10.0	<10.0
	8	<0.300	16.0	<10.0	14.2	<10.0	14.2
	10	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0
	12	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)
S-8	0	<0.300	128	<10.0	4560	1480	6040
	1	<0.300	448	<10.0	130	93.9	223.9
	2	<0.300	176	<10.0	38.7	19.6	58.3
	3	<0.300	80.0	<10.0	70.0	<10.0	70.0
S-9	0	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0
S-10	0	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0
S-11	0	<0.300	64.0	<10.0	<10.0	<10.0	<10.0
S-12	0	<0.300	<16.0	<10.0	<10.0	<10.0	<10.0

Proposed Remedial Actions

- The impacted area in the vicinity of sample locations S-1 and S-3 will be excavated to a depth of 1.5-feet deep.
- The impacted area near sample location S-4 will be excavated to a depth of 1.0-feet deep.
- Excavation activities within the separator battery will be carried out by hand-work to a depth of 1.5-feet BGS. Potential limitations may exist due to safety concerns, the presence of infrastructure (separators, flow lines, electric lines, etc.) and hard rock refusal.
- Affected soil near sample location S-6 will be excavated to a depth of 1.0-feet BGS and a confirmation sample collected and analyzed for TPH. Should analytical results exceed 100 mg/kg, the excavation will continue to a depth of 2.0-feet deep.
- Excavation to a depth of 4.0-feet deep will occur at S-7.
- The excavated areas will be backfilled with new caliche. Once the backfilling activities are complete the work area will be machine compacted where possible and contoured to match the surrounding location.

- The tank battery liner will be evaluated and photo documentation of its integrity will be provided.
- All of the excavated material will be hauled to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- 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



Brandon Sinclair
Environmental Scientist



David J Adkins
District Manager

Attachments:

- Appendix I Site Plan
- Appendix II Groundwater Data
- Appendix III Initial C-141
- Appendix IV FEMA Flood Map
- Appendix V Photographic Documentation
- Appendix VI Laboratory Data

APPENDIX I

SITE PLAN

Lone Tree 13 State Com 2H

Devon Energy Corporation
Eddy County, NM
AP# 30-015-40372
Figure 1

271108

Devon Lone Tree 13

Google Earth

4000 ft

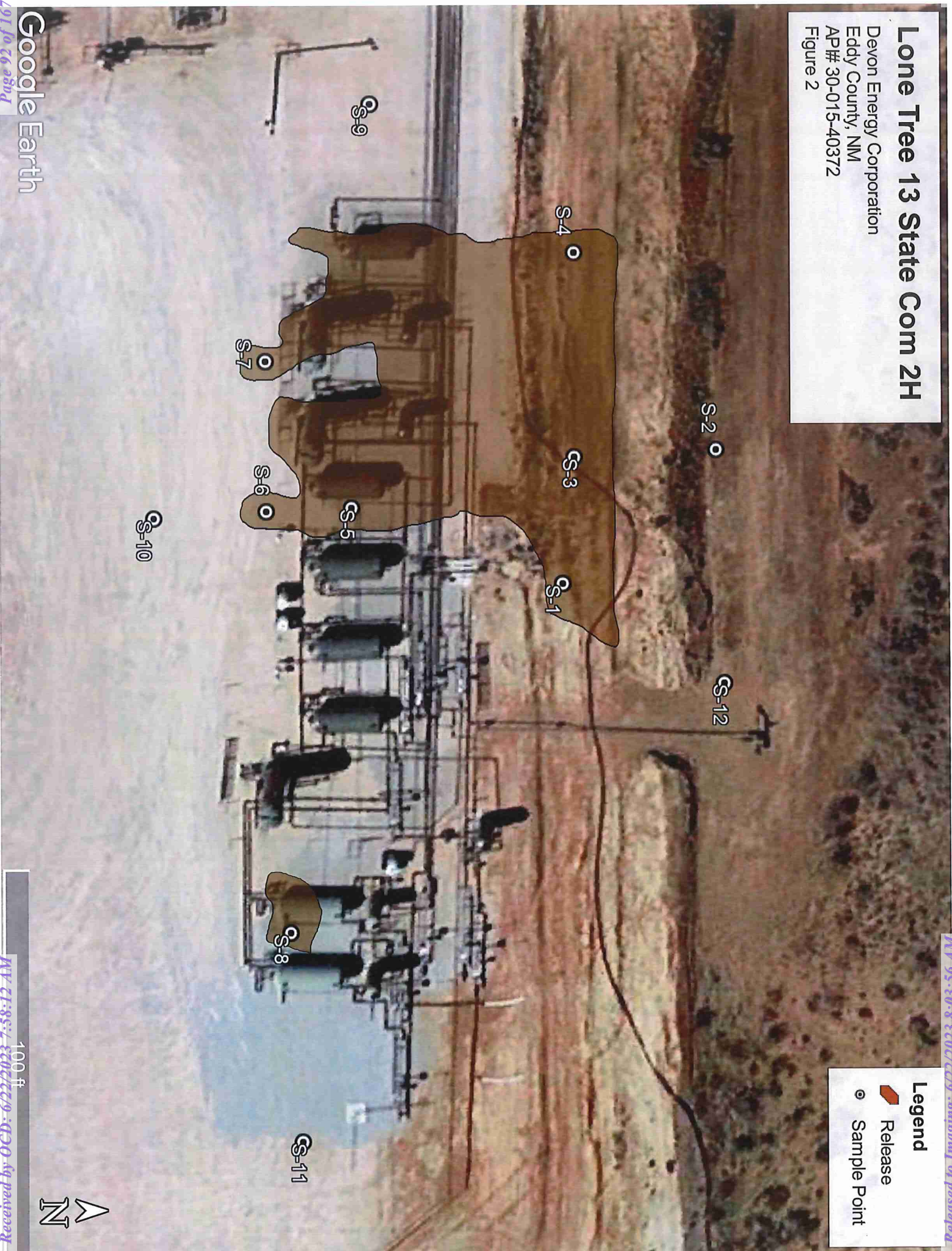


Lone Tree 13 State Com 2H

Devon Energy Corporation
Eddy County, NM
AP# 30-015-40372
Figure 2

Legend

-  Release
-  Sample Point



APPENDIX II

GROUNDWATER DATA



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 serves a water right file.)

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

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 00473	C	CUB	ED	3	2	14	21S	27E			579087	3594177*	906	562		
C 00465	C	CUB	ED	3	2	1	14	21S	27E		578576	3594475*	1323			
C 03864 POD1		CUB	ED	2	4	4	13	21S	27E		581218	3593472	1733	160	45	115
C 00466	C	CUB	ED	3	3	1	14	21S	27E		578173	3594066*	1799	538		
C 03272 POD1		CUB	ED	4	3	1	18	21S	28E		581632	3594114*	1802	22	9	13
C 03607 POD1		CUB	ED	2	2	2	24	21S	27E		581145	3593139	1916	275	10	265
C 00370	C	CUB	ED	4	4	15	21S	27E			577874	3593350*	2370			
C 00469	C	CUB	ED	1	4	02	21S	27E			579078	3596994*	2537	767		
C 00314		C	ED	1	4	24	21S	27E			580742	3592180*	2555	397		
C 03268 POD1		CUB	ED	4	2	4	01	21S	27E		581201	3596915	2666	48	13	35
C 02992		C	ED	3	3	2	01	21S	27E		580594	3597311*	2808	250	186	64

Average Depth to Water: **52 feet**

Minimum Depth: **9 feet**

Maximum Depth: **186 feet**

Record Count: 11

UTMNAD83 Radius Search (in meters):

Easting (X): 579894

Northing (Y): 3594591

Radius: 3000

*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.

2/13/19 10:43 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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 serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_00473	C	CUB	ED	3	2	14	21S	27E		579087	3594177*	906	562		
C_00465	C	CUB	ED	3	2	1	14	21S	27E	578576	3594475*	1323			
C_03864 POD1		CUB	ED	2	4	4	13	21S	27E	581218	3593472	1733	160	45	115
C_00466	C	CUB	ED	3	3	1	14	21S	27E	578173	3594066*	1799	538		
C_03272 POD1		CUB	ED	4	3	1	18	21S	28E	581632	3594114*	1802	22	9	13
C_03607 POD1		CUB	ED	2	2	2	24	21S	27E	581145	3593139	1916	275	10	265
C_00370	C	CUB	ED	4	4	15	21S	27E		577874	3593350*	2370			
C_00469	C	CUB	ED	1	4	02	21S	27E		579078	3596994*	2537	767		
C_00314	C	ED		1	4	24	21S	27E		580742	3592180*	2555	397		
C_03268 POD1		CUB	ED	4	2	4	01	21S	27E	581201	3596915	2666	48	13	35
C_02992	C	ED		3	3	2	01	21S	27E	580594	3597311*	2808	250	186	64
C_03350	C	ED		1	4	2	01	21S	27E	580896	3597476	3054	76	8	68
C_01163	CUB	ED		4	4	24	21S	27E		581157	3591783*	3078	240		
C_00645	C	ED		1	1	25	21S	27E		579933	3591356*	3235	100	100	0
C_01692	C	ED		3	1	2	25	21S	27E	580649	3591270*	3405	250	178	72
C_01142	C	ED		3	1	4	03	21S	27E	577358	3596873*	3411	100		
C_03689 POD1	C	ED		1	1	2	01	21S	27E	580490	3598014	3475	95	10	85
CP_00627 POD2	CP	ED		1	2	3	17	21S	28E	583360	3593982	3518	175		
CP_00650	CP	ED		3	17		21S	28E		583347	3593612*	3589	155	35	120
C_00047 A	CUB	ED		2	3	2	26	21S	27E	579218	3591043*	3611	90	70	20
C_01349	C	ED		2	3	2	26	21S	27E	579218	3591043*	3611	395	45	350
CP_00529 POD1	CP	LE		1	2	3	17	21S	28E	583446	3593915*	3615	100		
CP_00527 POD1	CP	XX		3	2	3	17	21S	28E	583446	3593715*	3658	100		
CP_01744 POD1	CP	ED		3	2	3	17	21S	28E	583476	3593764	3675	90	82	8
CP_00576	CP	ED		1	4	3	17	21S	28E	583448	3593513*	3713	295	32	263
CP_00627	CP	ED		2	3	17	21S	28E		583547	3593816*	3734	154	30	124
C_03525 POD3	CUB	ED		1	1	1	01	21S	27E	579728	3598332	3744	30		
C_03525 POD4	CUB	ED		1	1	1	01	21S	27E	579728	3598362	3775	29		
C_03525 POD1	CUB	ED		1	1	1	01	21S	27E	579702	3598362	3776	31	20	11
C_03525 POD2	CUB	ED		2	2	2	02	21S	27E	579676	3598362	3777	29	20	9
C_01583	C	ED		3	3	2	25	21S	27E	580650	3590865*	3801	270	80	190
CP_00569	CP	ED		4	3	17	21S	28E		583549	3593414*	3839	71	50	21
C_00940	C	ED		4	4	2	25	21S	27E	581258	3590872*	3961	42	5	37

C 00940 POD2	G	ED	4	4	2	25	21S	27E	581258	3590872*		3961	72	20	52
C 03939 POD1	CUB	ED	1	1	3	25	21S	27E	579927	3590559		4031	19	9	10
C 03939 POD4	CUB	ED	4	1	3	25	21S	27E	579955	3590499		4091	12		
C 03939 POD5	CUB	ED	3	1	3	25	21S	27E	579921	3590493		4097	12		
C 03939 POD3	CUB	ED	3	1	3	25	21S	27E	579904	3590472		4118	19	8	11
C 03939 POD2	CUB	ED	3	1	3	25	21S	27E	579937	3590468		4122	19	7	12
C 01339	CUB	ED		1	4	09	21S	27E	575842	3595353*		4123	425	120	305
C 00047 EXPL	CUB	ED	3	2	4	26	21S	27E	579429	3590444*		4172	490		
CP 01710 POD1	CP	ED	1	3	4	17	21S	28E	583936	3593547		4174	160	151	9
CP 01710 POD2	CP	ED	1	3	4	17	21S	28E	583971	3593509		4218	160	149	11
C 02907	C	ED	3	2	1	03	21S	27E	576959	3597669*		4253	52	14	38
C 00973	C	ED		4	26	21S	27E	579327	3590338*		4290	80	32	48	
C 01835	C	ED	1	4	4	26	21S	27E	579432	3590241*		4374	58	5	53
C 00206	C	ED		2	4	21	21S	27E	576264	3592118*		4392	150		
C 00061	C	ED	1	2	4	21	21S	27E	576163	3592217*		4422	150		
C 00468	CUB	ED	3	4	4	26	21S	27E	579432	3590041*		4573	80		
C 00858	CUB	ED	4	4	3	25	21S	27E	580446	3590051*		4573	304		
C 00297	C	CH	1	1	2	35	21S	27E	579029	3589833*		4835	130	30	100
C 01330	C	ED	3	3	3	09	21S	27E	574941	3594849*		4959	92	80	12

Average Depth to Water: 51 feet
Minimum Depth: 5 feet
Maximum Depth: 186 feet

Record Count:52

UTMNAD83 Radius Search (in meters):

Easting (X): 579894 Northing (Y): 3594591 Radius: 5000

*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.

2/13/19 10:44 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX III

Initial C-141

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

Received on
11/6/17
OCD District II
Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Form C-141
Revised August 8, 2011

Release Notification and Corrective Action

Initial only

NAB1801735905

OPERATOR		☒ Initial Report	☒ Final Report
Name of Company Devon Energy Production Company 10/31		Contact Wesley Ryan, Production Foreman	
Address 6488 Seven Rivers Hwy Artesia, NM 88210		Telephone No. 575-390-5436	
Facility Name Lone Tree Draw 13 State Com 8H		Facility Type Oil	
Surface Owner State Private	Mineral Owner State	API No 30-015-41738	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	13	21S	27E	150	North	1980	East	Eddy

Latitude: 32.4872093

Longitude: -104.140892

NATURE OF RELEASE

Type of Release Produced Water (PW)	Volume of Release 20 BBLS	Volume Recovered 20 BBLS
Source of Release Storage Tank	Date and Hour of Occurrence 10/24/17 @ 12:45pm	Date and Hour of Discovery 3/11/2017 @ 12:45pm
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? OCD-Mike Bratcher & Crystal Weaver 10/24/17	
By Whom? Wesley Ryan-Production Foreman	Date and Hour OCD & BLM -10/24/2017 @7:16 pm (via e-mail)	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* A communication failure resulted in a tank spilling over into lined containment. The lines were isolated to prevent further release.		
Describe Area Affected and Cleanup Action Taken.* Approximately 20BBLS of PW was released from a tank that ran over due to a communication failure. A vacuum truck was called in and all the fluid was recovered. Repairs were made.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: Dana DeLaRosa	OIL CONSERVATION DIVISION	
Printed Name: Dana DeLaRosa	Approved by Environmental Specialist Crystal W	
Title: Field Admin Support	Approval Date: 11/16/18	Expiration Date: N/A
E-mail Address: Dana.Delarosa@dmv.com	Conditions of Approval: see attached	Attached: 88P-4501
Date: Phone: 575.746.5594		

* Attach Additional Sheets If Necessary

11/16/18AB

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID
Contact Name Brett Fulks	Contact Telephone
Contact email brett.fulks@dvn.com	Incident # (assigned by OCD)
Contact mailing address PO Box 250, Artesia NM 88211	

Location of Release Source

Latitude 32.4871712 Longitude -104.1494293
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Lone Tree 13 State Com 2H	Site Type Oil
Date Release Discovered 8/23/2018	API# (if applicable) 30-015-40372

Unit Letter	Section	Township	Range	County
D	13	21S	27E	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) 2,214	Volume Recovered (bbls) None
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice 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

☒ 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 <u>not</u> 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.	
Printed Name: <u>Dana DeLaRosa</u>	Title: <u>Field Admin Support</u>
Signature: _____	Date: _____
email: <u>dana.delarosa@dvn.com</u>	Telephone: <u>575.748.3371</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID
Contact Name Brett Fulks	Contact Telephone
Contact email brett.fulks@dvn.com	Incident # (assigned by OCD)
Contact mailing address PO Box 250, Artesia NM 88211	

Location of Release Source

Latitude 32.4871712 Longitude -104.1494293
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Lone Tree 13 State Com 2H	Site Type Oil
Date Release Discovered 8/24/2018	API# (if applicable) 30-015-40372

Unit Letter	Section	Township	Range	County
D	13	21S	27E	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) 5.336	Volume Recovered (bbls) 5.0
	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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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☒ 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.	
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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.	
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Printed Name: <u>Dana DeLaRosa</u>	Title: <u>Field Admin Support</u>
Signature: _____	Date: _____
email: <u>dana.delarosa@dvn.com</u>	Telephone: <u>575.748.3371</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
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Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
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Facility ID	
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Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID
Contact Name Brett Fulks	Contact Telephone
Contact email brett.fulks@dvn.com	Incident # (assigned by OCD)
Contact mailing address PO Box 250, Artesia NM 88211	

Location of Release Source

Latitude 32.4871712 Longitude -104.1494293
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Lone Tree 13 State Com 2H	Site Type Oil
Date Release Discovered 8/30/2018	API# (if applicable) 30-015-40372

Unit Letter	Section	Township	Range	County
D	13	21S	27E	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) .347bbls	Volume Recovered (bbls) None
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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

Form C-141

Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

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☒ 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.	
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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.	
Printed Name: <u>Dana DeLaRosa</u>	Title: <u>Field Admin Support</u>
Signature: _____	Date: _____
email: <u>dana.delarosa@dvn.com</u>	Telephone: <u>575.748.3371</u>
<u>OCD Only</u> Received by: _____ Date: _____	

APPENDIX IV

FEMA Flood Map

National Flood Hazard Layer FIRMette



32°29'28.99"N



USGS The National Map: Orthoimagery. Data refreshed October 2017.

32°28'58.64"N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	
Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway	

0.2% 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 with Flood Risk due to Levee Zone D	

OTHER AREAS OF FLOOD HAZARD	
NO SCREEN	Area of Minimal Flood Hazard Zone X
Effective LOMRS	
Area of Undetermined Flood Hazard Zone	
GENERAL STRUCTURES	
Channel, Culvert, or Storm Sewer	
Levee, Dike, or Floodwall	

OTHER FEATURES	
Cross Sections with 1% Annual Chance Water Surface Elevation	
Coastal Transect	
Base Flood Elevation Line (BFE)	
Limit of Study	
Jurisdiction Boundary	
Coastal Transect Baseline	
Profile Baseline	
Hydrographic Feature	

MAP PANELS	
Digital Data Available	
No Digital Data Available	
Unmapped	

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 FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/11/2019 at 1:31:43 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 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 identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Zone D

Designation on National Flood Insurance Program maps used for areas where there are possible, but undetermined, flood hazards. In areas designated as Zone D, no analysis of flood hazards has been conducted. Mandatory flood insurance purchase requirements do not apply, but coverage is available. The flood insurance rates for properties in Zone D are commensurate with the uncertainty of the flood risk.

Zone V

The flood insurance rate zone that corresponds to the 100-year coastal floodplains that have additional hazards associated with storm waves. Because approximate hydraulic analyses are performed for such areas, no Base Flood Elevations are shown within this zone. Mandatory flood insurance purchase requirements apply.

Zone VE

The flood insurance rate zone that corresponds to the 100-year coastal floodplains that have additional hazards associated with storm waves. Base Flood Elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone. Mandatory flood insurance purchase requirements apply.

Zone B, C, and X

Zones B, C, and X are the flood insurance rate zones that correspond to areas outside the 100-year floodplains, areas of 100-year sheet flow flooding where average depths are less than 1 foot, areas of 100-year stream flooding where the contributing drainage area is less than 1 square mile, or areas protected from the 100-year flood by levees. No Base Flood Elevations or depths are shown within this zone.

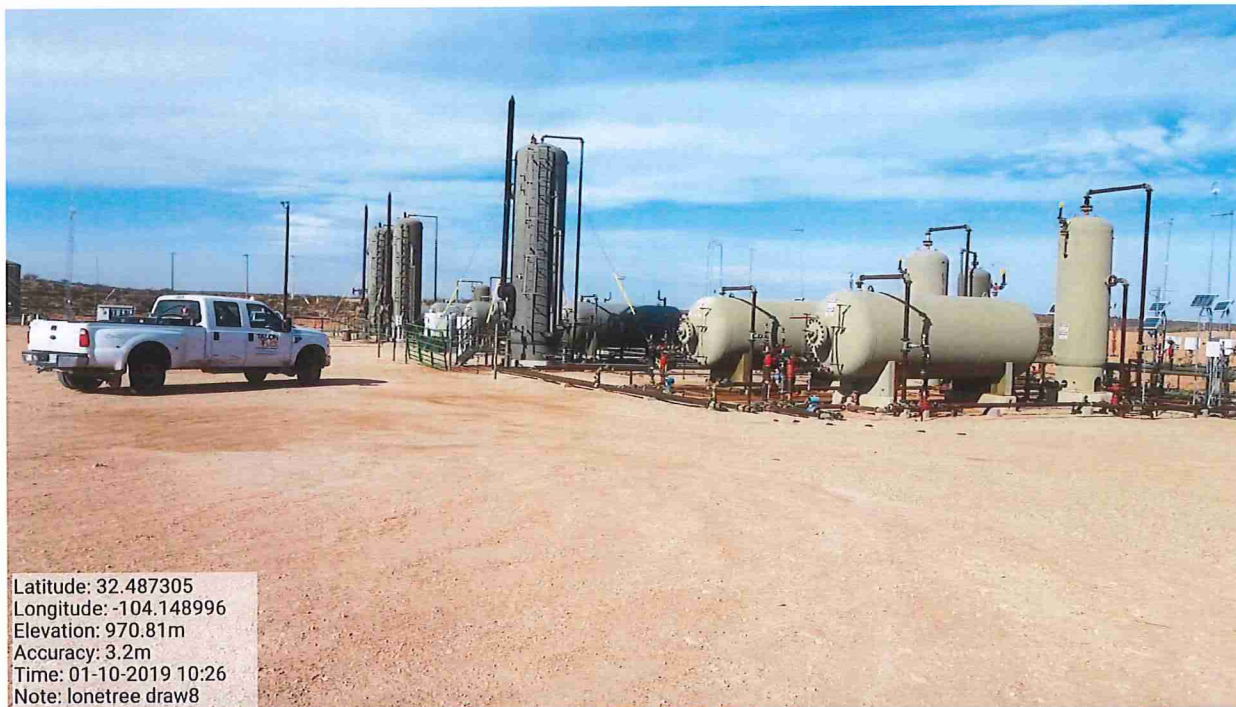
APPENDIX V

Photographic Documentation

Initial Site Assessment Photos

South side of separator battery/spill area





Latitude: 32.487305
Longitude: -104.148996
Elevation: 970.81m
Accuracy: 3.2m
Time: 01-10-2019 10:26
Note: lonetree draw8



Latitude: 32.487333
Longitude: -104.149542
Elevation: 974.28m
Accuracy: 3.2m
Time: 01-10-2019 10:24
Note: lonetree draw5



Latitude: 32.487344
Longitude: -104.149233
Elevation: 973.08m
Accuracy: 3.2m
Time: 01-10-2019 10:25
Note: lonetree draw7new



Latitude: 32.487164
Longitude: -104.149907
Elevation: 972.15m
Accuracy: 24.9m
Time: 01-10-2019 10:13
Note: lonetree draw

North side of spill area



APPENDIX VI

LABORATORY REPORTS



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

October 18, 2018

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LONE TREE DRAW #13

Enclosed are the results of analyses for samples received by the laboratory on 10/11/18 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 accredited 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. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/11/2018
Reported: 10/18/2018
Project Name: LONE TREE DRAW #13
Project Number: 700794.276.01
Project Location: DEVON - EDDY CO NM

Sampling Date: 10/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 1 0' (H802901-01)

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	10/12/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/12/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 95.4 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	546	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	176	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 85.7 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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.

Celey D. Keene, Lab Director/Quality Manager

Page 116 of 167
Received by OCD: 6/22/2023 7:58:12 AM
Released to Imaging: 6/22/2023 8:03:56 AM



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

Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 1 1' (H802901-02)

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	10/12/2018	ND	2.10	105	2.00	2.49	
Toluene*	<0.050	0.050	10/12/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	6.17	103	6.00	3.69	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PII) 112 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	126	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	26.9	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 94.0 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 1 2' (H802901-03)

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	10/12/2018	ND	2.10	105	2.00	2.49	
Toluene*	<0.050	0.050	10/12/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	6.17	103	6.00	3.69	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	41.1	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 92.8 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2018
Reported: 10/18/2018
Project Name: LONE TREE DRAW #13
Project Number: 700794.276.01
Project Location: DEVON - EDDY CO NM

Sampling Date: 10/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 2 0' (H802901-04)

BTX 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	10/12/2018	ND	2.10	105	2.00	2.49	
Toluene*	<0.050	0.050	10/12/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	0.056	0.050	10/12/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	0.438	0.150	10/12/2018	ND	6.17	103	6.00	3.69	
Total BTX	0.494	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	27.7	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 84.5 % 41-142

Surrogate: 1-Chlorooctadecane 85.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 2 1' (H802901-05)

BTX 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	10/12/2018	ND	2.10	105	2.00	2.49	
Toluene*	<0.050	0.050	10/12/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	6.17	103	6.00	3.69	
Total BTX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2018	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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	27.0	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 94.1 % 41-142

Surrogate: 1-Chlorooctadecane 96.0 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2018
Reported: 10/18/2018
Project Name: LONE TREE DRAW #13
Project Number: 700794.276.01
Project Location: DEVON - EDDY CO NM

Sampling Date: 10/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 2 2' (H802901-06)

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	10/12/2018	ND	2.10	105	2.00	2.49	
Toluene*	<0.050	0.050	10/12/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	6.17	103	6.00	3.69	
Total BTEx	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2018	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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 88.2 % 37.6-147

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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 2 3' (H802901-07)

BTX 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	10/12/2018	ND	2.10	105	2.00	2.49	
Toluene*	<0.050	0.050	10/12/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	6.17	103	6.00	3.69	
Total BTX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2018	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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 89.2 % 41-142

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 3 0' (H802901-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/12/2018	ND	2.10	105	2.00	2.49	
Toluene*	12.3	0.500	10/12/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	10.6	0.500	10/12/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	60.9	1.50	10/12/2018	ND	6.17	103	6.00	3.69	
Total BTX	83.8	3.00	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 133 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	490	10.0	10/12/2018	ND	192	96.2	200	0.369		
DRO >C10-C28*	3640	10.0	10/12/2018	ND	189	94.3	200	0.397		
EXT DRO >C28-C36	554	10.0	10/12/2018	ND						

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 200 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2018
Reported: 10/18/2018
Project Name: LONE TREE DRAW #13
Project Number: 700794.276.01
Project Location: DEVON - EDDY CO NM

Sampling Date: 10/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 3 1' (H802901-09)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/18/2018	ND	2.10	105	2.00	2.49	
Toluene*	16.9	0.200	10/18/2018	ND	2.09	105	2.00	3.26	
Ethylbenzene*	16.5	0.200	10/18/2018	ND	2.14	107	2.00	3.06	
Total Xylenes*	76.0	0.600	10/18/2018	ND	6.17	103	6.00	3.69	
Total BTX	109	1.20	10/18/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 181 % 69.8-142

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	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*	475	10.0	10/17/2018	ND	203	101	200	4.75	QM-07
DRO >C10-C28*	1880	10.0	10/17/2018	ND	205	102	200	0.512	QM-07
EXT DRO >C28-C36	238	10.0	10/17/2018	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 135 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 3 2' (H802901-10)

BTX 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	10/18/2018	ND	1.85	92.5	2.00	1.02	QM-07, QR-03
Toluene*	<0.050	0.050	10/18/2018	ND	1.76	87.9	2.00	0.828	QR-03
Ethylbenzene*	<0.050	0.050	10/18/2018	ND	1.75	87.7	2.00	1.15	QR-03
Total Xylenes*	<0.150	0.150	10/18/2018	ND	5.33	88.9	6.00	1.10	QR-03
Total BTX	<0.300	0.300	10/18/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 115 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/16/2018	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	10/17/2018	ND	203	101	200	4.75	
DRO >C10-C28*	16.9	10.0	10/17/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	<10.0	10.0	10/17/2018	ND					

Surrogate: 1-Chlorooctane 73.7 % 41-142

Surrogate: 1-Chlorooctadecane 68.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2018
Reported: 10/18/2018
Project Name: LONE TREE DRAW #13
Project Number: 700794.276.01
Project Location: DEVON - EDDY CO NM

Sampling Date: 10/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 4 0' (H802901-11)

BTX 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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	<0.050	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	0.251	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.0 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	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	10/12/2018	ND	203	101	200	4.75	
DRO >C10-C28*	332	10.0	10/12/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	77.4	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 97.7 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 4 1' (H802901-12)

BTX 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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	<0.050	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 98.3 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	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	10/12/2018	ND	203	101	200	4.75	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2018
Reported: 10/18/2018
Project Name: LONE TREE DRAW #13
Project Number: 700794.276.01
Project Location: DEVON - EDDY CO NM

Sampling Date: 10/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 4 2' (H802901-13)

BTX 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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	<0.050	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.2 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2018	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	10/12/2018	ND	203	101	200	4.75	
DRO >C10-C28*	20.2	10.0	10/12/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 96.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 4 3' (H802901-14)

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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	<0.050	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTEX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.1 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2018	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	10/12/2018	ND	203	101	200	4.75	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 93.1 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2018
Reported: 10/18/2018
Project Name: LONE TREE DRAW #13
Project Number: 700794.276.01
Project Location: DEVON - EDDY CO NM

Sampling Date: 10/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 5 0' (H802901-15)

BTEx 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	12.0	0.500	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	11.6	0.500	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	76.4	1.50	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTEX	100	3.00	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 69.8-142

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/16/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1300	10.0	10/12/2018	ND	203	101	200	4.75		
DRO >C10-C28*	8670	10.0	10/12/2018	ND	205	102	200	0.512		
EXT DRO >C28-C36	1030	10.0	10/12/2018	ND						

Surrogate: 1-Chlorooctane 212 % 41-142

Surrogate: 1-Chlorooctadecane 181 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 5 1' (H802901-16)

BTX 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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	0.348	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	0.566	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	3.55	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTX	4.46	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 120 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	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*	65.4	10.0	10/12/2018	ND	203	101	200	4.75	
DRO >C10-C28*	1120	10.0	10/12/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	186	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 99.1 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 5 2' (H802901-17)

BTX 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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	<0.050	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.5 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2018	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	10/12/2018	ND	203	101	200	4.75	
DRO >C10-C28*	62.6	10.0	10/12/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	16.3	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 99.7 % 41-142

Surrogate: 1-Chlorooctadecane 90.4 % 37.6-147

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Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 5 3' (H802901-18)

BTX 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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	<0.050	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 98.8 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	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	10/13/2018	ND	203	101	200	4.75	
DRO >C10-C28*	297	10.0	10/13/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	49.6	10.0	10/13/2018	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/11/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Soil
Project Name:	LONE TREE DRAW #13	Sampling Condition:	Cool & Intact
Project Number:	700794.276.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S- 5 4' (H802901-19)

BTX 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	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	<0.050	0.050	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	<0.050	0.050	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	<0.150	0.150	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTX	<0.300	0.300	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.0 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	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	10/13/2018	ND	203	101	200	4.75	
DRO >C10-C28*	58.9	10.0	10/13/2018	ND	205	102	200	0.512	
EXT DRO >C28-C36	11.1	10.0	10/13/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2018
Reported: 10/18/2018
Project Name: LONE TREE DRAW #13
Project Number: 700794.276.01
Project Location: DEVON - EDDY CO NM

Sampling Date: 10/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 6 0' (H802901-20)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	9.86	0.200	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	11.8	0.200	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	71.6	0.600	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTX	93.2	1.20	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 133 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/16/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	863	10.0	10/13/2018	ND	203	101	200	4.75		
DRO >C10-C28*	8040	10.0	10/13/2018	ND	205	102	200	0.512		
EXT DRO >C28-C36	1110	10.0	10/13/2018	ND						

Surrogate: 1-Chlorooctane 193 % 41-142

Surrogate: 1-Chlorooctadecane 242 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/11/2018
Reported: 10/18/2018
Project Name: LONE TREE DRAW #13
Project Number: 700794.276.01
Project Location: DEVON - EDDY CO NM

Sampling Date: 10/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S- 6 0.5' (H802901-21)

BTX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/15/2018	ND	1.85	92.5	2.00	1.02	
Toluene*	6.30	0.200	10/15/2018	ND	1.76	87.9	2.00	0.828	
Ethylbenzene*	8.31	0.200	10/15/2018	ND	1.75	87.7	2.00	1.15	
Total Xylenes*	53.1	0.600	10/15/2018	ND	5.33	88.9	6.00	1.10	
Total BTX	67.7	1.20	10/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 126 % 69.8-142

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/16/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	639	10.0	10/13/2018	ND	203	101	200	4.75		
DRO >C10-C28*	9730	10.0	10/13/2018	ND	205	102	200	0.512		
EXT DRO >C28-C36	1560	10.0	10/13/2018	ND						

Surrogate: 1-Chlorooctane 173 % 41-142

Surrogate: 1-Chlorooctadecane 281 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



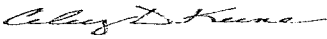
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Notes and Definitions

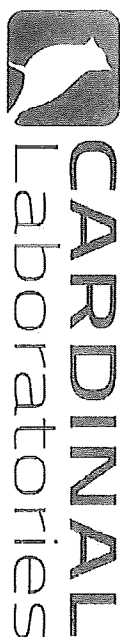
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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 SM4500Cl-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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

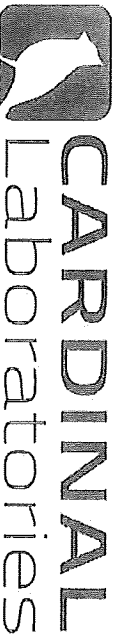
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Talon LPE</u>		P.O. #: <u>700794.276.0</u>		ANALYSIS REQUEST	
Project Manager: <u>DAVID ADKINS</u>		Company: <u>Talon LPE</u>			
Address: <u>408 W. Texas Ave</u>		City: <u>Artesia</u>			
State: <u>NM</u> Zip: <u>88210</u>		Address:			
Phone #: <u>575-441-4935</u> Fax #:		City:			
Project #: <u>700794.276.0</u> Project Owner: <u>Devon</u>		State:			
Project Name: <u>Love Tree Draw #13</u>		Zip:			
Project Location: <u>6ddy Co NM</u>		Phone #:			
Sampler Name: <u>Mike Diller</u>		Fax #:			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H802901	S-1 0'	G	1							19/10/18		BTX
	S-1 1'											TPH
	S-1 2'											Chlorides
	S-2 0'											
	S-2 1'											
	S-2 2'											
	S-2 3'											
	S-3 0'											
	S-3 1'											
	S-3 2'											

Reinquished By: <u>David Adkins</u>	Date: <u>10-11-18</u>	Received By: <u>Devon</u>	Date: <u>10-11-18</u>
Delivered By: <u>David Adkins</u>	Date: <u>10-11-18</u>	Received By: <u>Devon</u>	Date: <u>10-11-18</u>
Sampler - UPS - Bus - Other: <u>1.20</u>		Sample Condition: <u>Intact</u>	CHECKED BY: <u>Devon</u>
		Cool: <u>Yes</u>	(Initials)

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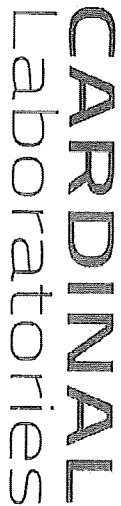


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: TANU LPE		BILETO		ANALYSIS REQUEST									
Project Manager: DAVID ADKINS		P.O. #: 70679427601											
Address: 408 W. TAGAS AVE		Company:											
City: Artesia		Attn:											
Phone #: 575-441-4835		Address:											
Fax #: 		City:											
Project #: 706794.276.01		State: NM		Zip: 88210									
Project Name: Long Tree Dam #13		State:		Zip:									
Project Location: Edley County NM		Phone #:											
Sample Name: Mule diller		Fax #:											
FOR LAB USE ONLY													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.		SAMPLING				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	
11	S-4	0'	61										
12	S-4	1'											
13	S-4	2'											
14	S-4	3'											
15	S-5	2'											
16	S-5	1'											
17	S-5	2'											
18	S-5	3'											
19	S-5	4'											
20													
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Relinquished By: WALCEL		Date: 11-11-18		Time: 11:10:00		Received By: Bill Hogg		Date: 10-11-18		Time: 10:30		Received By: Jessica S. [Signature]	
Delivered By: (Circle One) Bill Hogg		Sample Condition		Cool		Intact		Checked By: [Signature]		(Initials)		78.	
Sampler - UPS - Bus - Other: 1.20 #97		Yes ☐ No ☐		Yes ☐ No ☐		Yes ☐ No ☐		Yes ☐ No ☐		Yes ☐ No ☐		Yes ☐ No ☐	
Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #: Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #: REMARKS:													

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

January 21, 2019

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LONE TREE

Enclosed are the results of analyses for samples received by the laboratory on 01/16/19 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 accredited 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. 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:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 6 0' (H900150-01)

BTX 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	01/17/2019	ND	1.90	94.9	2.00	3.85	
Toluene*	<0.050	0.050	01/17/2019	ND	2.10	105	2.00	3.13	
Ethylbenzene*	0.088	0.050	01/17/2019	ND	1.94	96.8	2.00	8.73	
Total Xylenes*	0.454	0.150	01/17/2019	ND	5.69	94.8	6.00	5.30	
Total BTX	0.542	0.300	01/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	64.0	16.0	01/17/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.9	10.0	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	595	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	110	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 95.5 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 6 2' (H900150-02)

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	01/18/2019	ND	2.01	101	2.00	0.428		
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77		
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07		
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964		
Total BTEX	<0.300	0.300	01/18/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	96.0	16.0	01/17/2019	ND	400	100	400	3.92			

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	01/16/2019	ND	215	108	200	0.773		
DRO >C10-C28*	10.0	10.0	01/16/2019	ND	202	101	200	2.58		
EXT DRO >C28-C36	<10.0	10.0	01/16/2019	ND						

Surrogate: 1-Chlorooctane 88.6 % 41-142

Surrogate: 1-Chlorooctadecane 85.3 % 37.6-147

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/16/2019
Reported: 01/21/2019
Project Name: LONE TREE
Project Number: NONE GIVEN
Project Location: DEVON - EDDY CO NM

Sampling Date: 01/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 6 4' (H900150-03)

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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTEX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 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	32.0	16.0	01/17/2019	ND	400	100	400	3.92	

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	<10.0	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 84.9 % 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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Received by OCD: 6/22/2023 7:58:12 AM
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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 6 6' (H900150-04)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	3.92	

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	<10.0	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 83.5 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/16/2019
Reported: 01/21/2019
Project Name: LONE TREE
Project Number: NONE GIVEN
Project Location: DEVON - EDDY CO NM

Sampling Date: 01/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 6 8' (H900150-05)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	3.92	

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	<10.0	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 82.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/16/2019
Reported: 01/21/2019
Project Name: LONE TREE
Project Number: NONE GIVEN
Project Location: DEVON - EDDY CO NM

Sampling Date: 01/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 6 10' (H900150-06)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	3.92	

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	<10.0	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 82.5 % 41-142

Surrogate: 1-Chlorooctadecane 78.0 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 6 12' (H900150-07)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 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	16.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	<10.0	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 88.9 % 41-142

Surrogate: 1-Chlorooctadecane 86.7 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 7 0' (H900150-08)

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	01/21/2019	ND	2.01	101	2.00	0.428	
Toluene*	2.85	1.00	01/21/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	8.56	1.00	01/21/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	38.7	3.00	01/21/2019	ND	5.76	96.1	6.00	0.964	
Total BTEX	50.1	6.00	01/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 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	48.0	16.0	01/17/2019	ND	400	100	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1410	10.0	01/16/2019	ND	215	108	200	0.773		
DRO >C10-C28*	8110	10.0	01/16/2019	ND	202	101	200	2.58		
EXT DRO >C28-C36	1430	10.0	01/16/2019	ND						

Surrogate: 1-Chlorooctane 135 % 41-142

Surrogate: 1-Chlorooctadecane 293 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 7 2' (H900150-09)

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	01/21/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/21/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/21/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/21/2019	ND	5.76	96.1	6.00	0.964	
Total BTEx	<0.300	0.300	01/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 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	80.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	109	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	73.1	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.6 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/16/2019
Reported: 01/21/2019
Project Name: LONE TREE
Project Number: NONE GIVEN
Project Location: DEVON - EDDY CO NM

Sampling Date: 01/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 7 4' (H900150-10)

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	01/21/2019	ND	2.01	101	2.00	0.428		
Toluene*	<0.050	0.050	01/21/2019	ND	1.96	97.9	2.00	1.77		
Ethylbenzene*	<0.050	0.050	01/21/2019	ND	1.91	95.5	2.00	1.07		
Total Xylenes*	<0.150	0.150	01/21/2019	ND	5.76	96.1	6.00	0.964		
Total BTEX	<0.300	0.300	01/21/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	48.0	16.0	01/17/2019	ND	400	100	400	7.69		

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	208	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	28.4	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 82.5 % 41-142

Surrogate: 1-Chlorooctadecane 83.3 % 37.6-147

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/16/2019
Reported: 01/21/2019
Project Name: LONE TREE
Project Number: NONE GIVEN
Project Location: DEVON - EDDY CO NM

Sampling Date: 01/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 7 6' (H900150-11)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 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	16.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/16/2019	ND	215	108	200	0.773	
DRO >C10-C28*	<10.0	10.0	01/16/2019	ND	202	101	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	01/16/2019	ND					

Surrogate: 1-Chlorooctane 84.4 % 41-142

Surrogate: 1-Chlorooctadecane 80.0 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 7 8' (H900150-12)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	16.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	14.2	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 85.5 % 41-142

Surrogate: 1-Chlorooctadecane 86.9 % 37.6-147

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 7 10' (H900150-13)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 91.2 % 41-142

Surrogate: 1-Chlorooctadecane 86.4 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/16/2019
Reported: 01/21/2019
Project Name: LONE TREE
Project Number: NONE GIVEN
Project Location: DEVON - EDDY CO NM

Sampling Date: 01/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 7 12' (H900150-14)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 94.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/16/2019
Reported: 01/21/2019
Project Name: LONE TREE
Project Number: NONE GIVEN
Project Location: DEVON - EDDY CO NM

Sampling Date: 01/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 8 0' (H900150-15)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 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	128	16.0	01/17/2019	ND	400	100	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/18/2019	ND	215	108	200	2.39		
DRO >C10-C28*	4560	10.0	01/18/2019	ND	217	109	200	6.33		
EXT DRO >C28-C36	1480	10.0	01/18/2019	ND						

Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 300 % 37.6-147

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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 8 1' (H900150-16)

BTX 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	01/18/2019	ND	2.01	101	2.00	0.428	
Toluene*	<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	448	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	130	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	93.9	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 89.5 % 41-142

Surrogate: 1-Chlorooctadecane 87.7 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/16/2019
Reported: 01/21/2019
Project Name: LONE TREE
Project Number: NONE GIVEN
Project Location: DEVON - EDDY CO NM

Sampling Date: 01/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 8 2' (H900150-17)

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	01/19/2019	ND	1.88	94.0	2.00	1.97	
Toluene*	<0.050	0.050	01/19/2019	ND	1.80	89.8	2.00	0.340	
Ethylbenzene*	<0.050	0.050	01/19/2019	ND	1.79	89.6	2.00	1.79	
Total Xylenes*	<0.150	0.150	01/19/2019	ND	5.40	90.0	6.00	1.54	
Total BTEX	<0.300	0.300	01/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 98.8 % 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	176	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	38.7	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	19.6	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 86.9 % 41-142

Surrogate: 1-Chlorooctadecane 85.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/16/2019
Reported: 01/21/2019
Project Name: LONE TREE
Project Number: NONE GIVEN
Project Location: DEVON - EDDY CO NM

Sampling Date: 01/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 8 3' (H900150-18)

BTX 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	01/19/2019	ND	1.88	94.0	2.00	1.97	
Toluene*	<0.050	0.050	01/19/2019	ND	1.80	89.8	2.00	0.340	
Ethylbenzene*	<0.050	0.050	01/19/2019	ND	1.79	89.6	2.00	1.79	
Total Xylenes*	<0.150	0.150	01/19/2019	ND	5.40	90.0	6.00	1.54	
Total BTX	<0.300	0.300	01/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	80.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	70.0	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 87.1 % 41-142

Surrogate: 1-Chlorooctadecane 83.2 % 37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/16/2019
Reported: 01/21/2019
Project Name: LONE TREE
Project Number: NONE GIVEN
Project Location: DEVON - EDDY CO NM

Sampling Date: 01/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 9 0' (H900150-19)

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	01/19/2019	ND	1.88	94.0	2.00	1.97		
Toluene*	<0.050	0.050	01/19/2019	ND	1.80	89.8	2.00	0.340		
Ethylbenzene*	<0.050	0.050	01/19/2019	ND	1.79	89.6	2.00	1.79		
Total Xylenes*	<0.150	0.150	01/19/2019	ND	5.40	90.0	6.00	1.54		
Total BTEX	<0.300	0.300	01/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	7.69		

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 87.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/16/2019
Reported: 01/21/2019
Project Name: LONE TREE
Project Number: NONE GIVEN
Project Location: DEVON - EDDY CO NM

Sampling Date: 01/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 10 0' (H900150-20)

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	01/19/2019	ND	1.88	94.0	2.00	1.97	
Toluene*	<0.050	0.050	01/19/2019	ND	1.80	89.8	2.00	0.340	
Ethylbenzene*	<0.050	0.050	01/19/2019	ND	1.79	89.6	2.00	1.79	
Total Xylenes*	<0.150	0.150	01/19/2019	ND	5.40	90.0	6.00	1.54	
Total BTEX	<0.300	0.300	01/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 11 0' (H900150-21)

BTX 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	01/18/2019	ND	2.36	118	2.00	1.28	
Toluene*	<0.050	0.050	01/18/2019	ND	2.25	113	2.00	0.963	
Ethylbenzene*	<0.050	0.050	01/18/2019	ND	2.18	109	2.00	0.0622	
Total Xylenes*	<0.150	0.150	01/18/2019	ND	6.70	112	6.00	0.590	
Total BTX	<0.300	0.300	01/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 98.9 % 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	64.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 83.2 % 37.6-147

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Celestine Keene

Celestine 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:	01/16/2019	Sampling Date:	01/15/2019
Reported:	01/21/2019	Sampling Type:	Soil
Project Name:	LONE TREE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 12 0' (H900150-22)

BTX 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	01/19/2019	ND	1.88	94.0	2.00	1.97	
Toluene*	<0.050	0.050	01/19/2019	ND	1.80	89.8	2.00	0.340	
Ethylbenzene*	<0.050	0.050	01/19/2019	ND	1.79	89.6	2.00	1.79	
Total Xylenes*	<0.150	0.150	01/19/2019	ND	5.40	90.0	6.00	1.54	
Total BTX	<0.300	0.300	01/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 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	<16.0	16.0	01/17/2019	ND	400	100	400	7.69	

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	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	<10.0	10.0	01/18/2019	ND	217	109	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/18/2019	ND					

Surrogate: 1-Chlorooctane 94.6 % 41-142

Surrogate: 1-Chlorooctadecane 91.2 % 37.6-147

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*=Accredited Analyte

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CELEY D. KEENE

Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

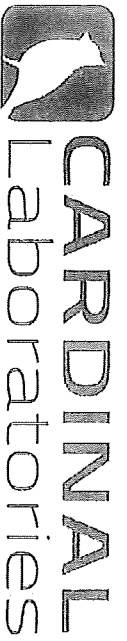
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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 SM4500Cl-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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Maryland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

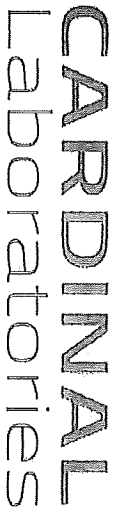
Company Name: <u>Talon</u>		P.O. #:		ANALYSIS REQUEST									
Project Manager: <u>CS</u>		Company: <u>Talon</u>											
Address: <u>468 W. 1st St</u>		Attn:											
City: <u>Artesia</u>		Address:											
Phone #: <u>631-6577</u>		City:											
Fax #:		State: <u>Zip:</u>											
Project #:		Project Owner: <u>Deven</u>											
Project Name: <u>Love Time</u>		State: <u>Zip:</u>											
Project Location: <u>Bddy, NM</u>		Phone #:											
Sampler Name: <u>M.C.</u>		Fax #:											

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:				ICE / COOL
H900150														
1	S-4	0									1-15-11	1200	1	TPH Ext
2	S-4	2										1200	1	BTEX
3	S-4	4										1200	1	Chlorides
4	S-6	4										1200	1	
5	S-6	8										1200	1	
6	S-6	10										1200	1	
7	S-4	12										1230	1	
8	S-7	0										1230	1	
9	S-7	2										1230	1	
10	S-7	4										1230	1	

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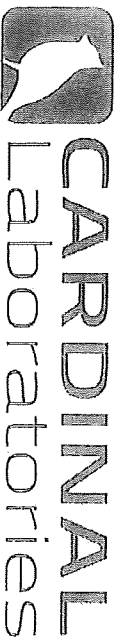
Relinquished By: <u>Walter E. Llo</u>	Date: <u>1-16-19</u>	Received By: <u>Deven</u>	Phone Result: ☐ Yes ☐ No	Add'l Phone #: _____
Relinquished By: _____	Date: _____	Received By: _____	Fax Result: ☐ Yes ☐ No	Add'l Fax #: _____
Delivered By: (Circle One) <u>UPS</u>	Sample Condition: ☒ Intact ☐ Damaged	CHECKED BY: <u>[Signature]</u>	REMARKS: _____	
Sampler - UPS - Bus - Other: <u>#97 - 2.10</u>	Cool / Intact: ☐ Yes ☒ No			

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Maryland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Talco

Project Manager: CSoros

Address: 408 W. Texas

City: Alameda State: NM Zip: 88212

Phone #: 631-6977 Fax #:

Project #: Project Owner: Talco

Project Name: low tree

Project Location: Edg, NM

Sample Name: M.C.

FOR LAB USE ONLY

Lab I.D. Sample I.D.

1900150

21 5-11 0
22 5-12 0

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE / COOL
OTHER :

DATE TIME

1-15-9 110
115

TPH Ext
BTEX
Chlorides

ANALYSIS REQUEST

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Relinquished By: M.H. L. L. Date: 1-16-19 Received By: Janet A. Delaney

Relinquished By: M.H. L. L. Date: 1-16-19 Received By: Janet A. Delaney

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: #97 -2.1c

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐
No ☐ Yes ☒

CHECKED BY: Janet A. Delaney

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:
Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 231485

CONDITIONS

Operator: DEVON ENERGY PRODUCTION CO, L.P. 333 West Sheridan Oklahoma City, OK 73102	OGRID: 321578
	Action Number: 231485
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Documents were put in the wrong incident file back in 2017. Files were saved as PDF and put in correct incident file (NAB1801735905).	6/22/2023