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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
Refusal	2	<0.300	64.0	<10.0	41.1	<10.0	41.1
		7					
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
		Harrier Haller	Paris Haller	4 1 7			

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
	-		- 11-3-1				
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 1.0feet 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

Brank Sinch

Environmental Scientist

David J Adkins District Manager

Attachments:

Appendix I Site Plan

Appendix II Groundwater Data

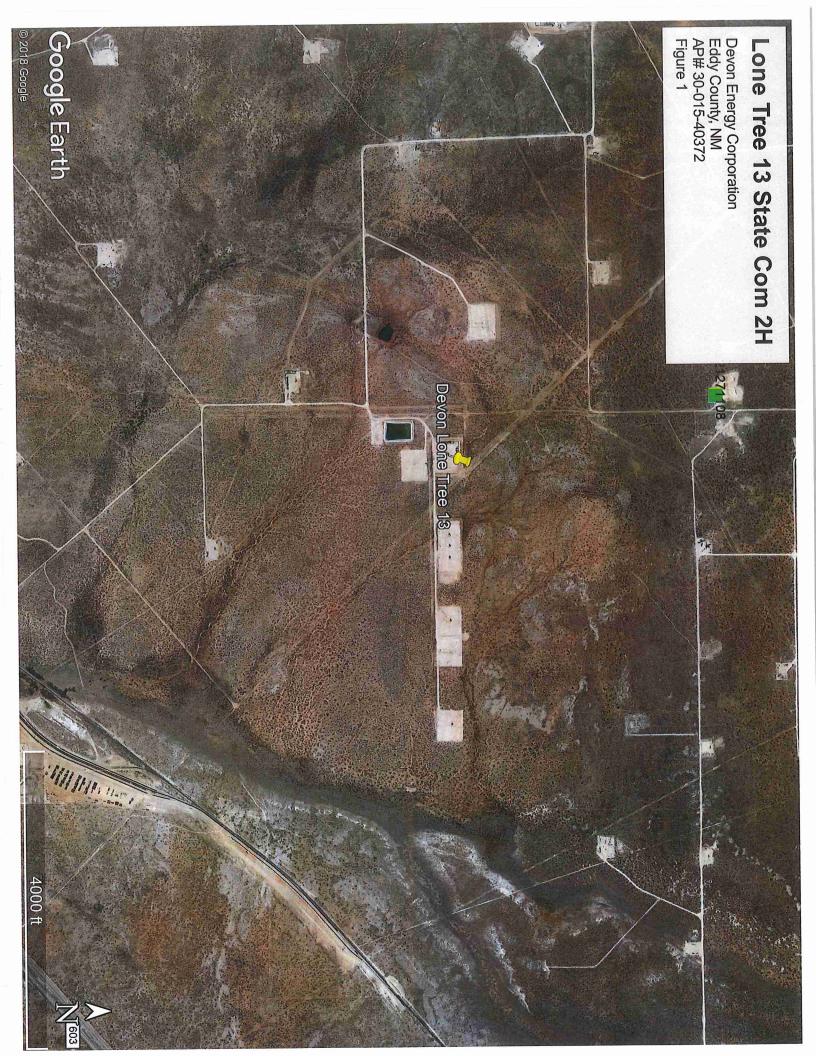
Appendix III Initial C-141

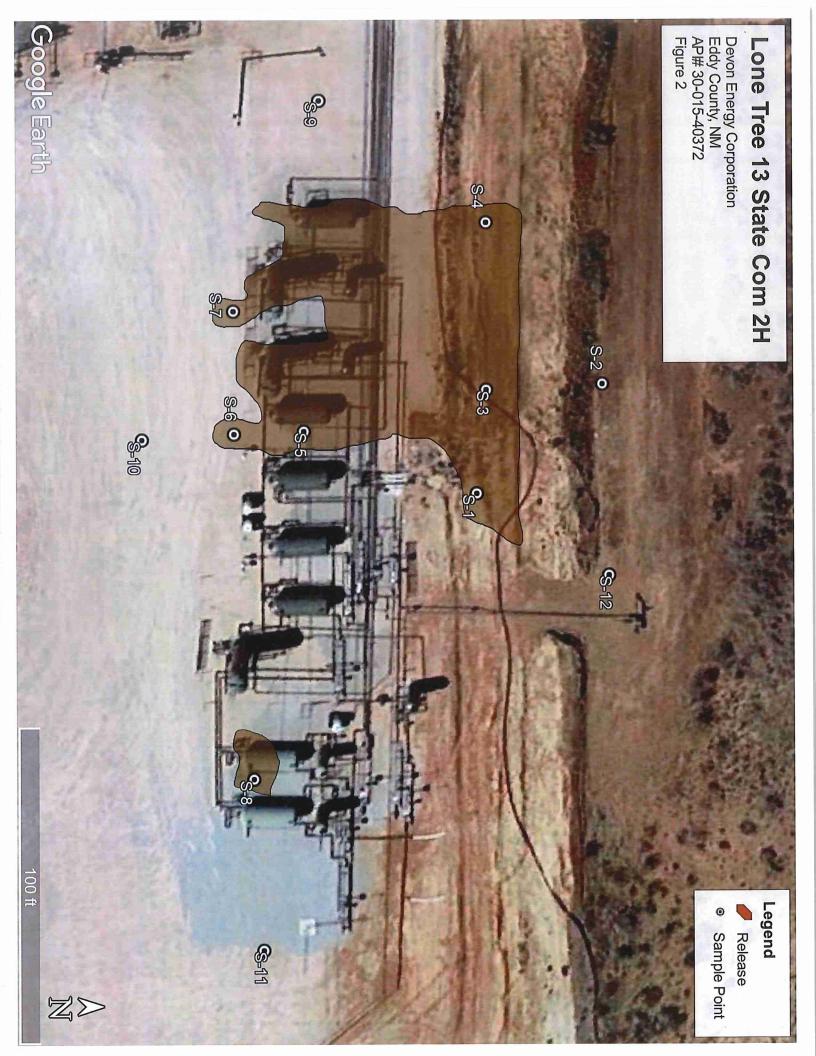
Appendix IV FEMA Flood Map

Appendix V Photographic Documentation

Appendix VI Laboratory Data

APPENDIX I SITE PLAN





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													
		Sub-		Q	Q	Q									Water
POD Number	Code	basin	County	64	16	4 S	ec '	Tws	Rng	Х	Υ	DistanceDep	othWellDept	hWater C	olumn
C 00473	С	CUB	ED		3	2 .	14	218	27E	579087	3594177*	906	562		
C 00465	С	CUB	ED	3	2	1	14	218	27E	578576	3594475* 🎒	1323			
C 03864 POD1		CUB	ED	2	4	4	13	218	27E	581218	3593472 竇	1733	160	45	115
C 00466	С	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 2	24	21S	27E	581145	3593139 🌉	1916	275	10	265
C 00370	С	CUB	ED		4	4	15	21S	27E	577874	3593350*	2370			
C 00469	С	CUB	ED		1	4 (02	218	27E	579078	3596994* 顲	2537	767		
C 00314		С	ED		1	4 2	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		С	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,

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

DOD Noveles	0-4-	POD Sub-	County	Q Q		200	Twe	Pna	Х	Υ	DistanceDe	anthWellDe	۱ pthWater C	Water olumn
POD Number © 00473	Code C	basin (ED ED				21S			3594177*	906	562	pinwater o	oranni
C 00465	С	CUB	ED	3 2	1	14	218	27E	578576	3594475*	1323			
C 03864 POD1		CUB	ED	2 4	4	13	218	27E	581218	3593472 🎒	1733	160	45	115
C 00466	С	CUB	ED	3 3	1	14	218	27E	578173	3594066*	1799	538		
C 03272 POD1		CUB	ED	4 3	1	18	218	28E	581632	3594114* 🎒	1802	22	, 9	13
C 03607 POD1		CUB	ED	2 2	2	24	218	27E	581145	3593139 🌑	1916	275	10	265
C 00370	С	CUB	ED	4	4	15	218	27E	577874	3593350*	2370			
C 00469	С	CUB	ED	1	4	02	218	27E	579078	3596994*	2537	767		
C 00314		С	ED	1	4	24	218	27E	580742	3592180*	2555	397		
C 03268 POD1		CUB	ED	4 2	4	01	218	27E	581201	3596915 🎒	2666	48	13	35
C 02992		С	ED	3 3	2	01	218	27E	580594	3597311*	2808	250	186	64
C 03350		С	ED	1 4	2	01	218	27E	580896	3597476 🌍	3054	76	8	68
C 01163		CUB	ED	4	4	24	218	27E	581157	3591783* 🎒	3078	240		
C 00645		С	ED	1	1	25	21S	27E	579933	3591356*	3235	100	100	0
C 01692		С	ED	3 1	2	25	218	27E	580649	3591270*	3405	250	178	72
C 01142		С	ED	3 1	4	03	218	27E	577358	3596873*	3411	100		
C 03689 POD1		С	ED	1 1	2	01	218	27E	580490	3598014	3475	95	10	85
CP 00627 POD2		CP	ED	1 2	2 3	17	218	28E	583360	3593982 🦥	3518	175		
CP 00650		CP	ED		3	17	218	28E	583347	3593612*	3589	155	35	120
C 00047 A		CUB	ED	2 3	3 2	26	218	27E	579218	3591043*	3611	90	70	20
C 01349		С	ED	2 3	3 2	26	218	27E	579218	3591043*	3611	395	45	350
CP 00529 POD1		CP	LE	1 2	2 3	17	218	28E	583446	3593915* 🥌	3615	100		
CP 00527 POD1		CP	XX	3 2	2 3	17	218	28E	583446	3593715*	3658	100		
CP 01744 POD1		CP	ED	3 2	2 3	17	218	28E	583476	3593764	3675	90	82	8
<u>CP 00576</u>		CP	ED	1 4	4 3	17	218	28E	583448	3593513*	3713	295	32	263
CP 00627		CP	ED	:	2 3	17	218	28E	583547	3593816*	3734	154	30	124
C 03525 POD3		CUB	ED	1	1 1	01	218	27E	579728	3598332 🌉	3744	30		
C 03525 POD4		CUB	ED	1	1 1	01	218	3 27E	579728	3598362	3775	29		
C 03525 POD1		CUB	ED	1	1 1	01	218	3 27E	579702	3598362	3776	31	20	11
C 03525 POD2		CUB	ED	2	2 2	02	215	3 27E	579676	3598362 顲	3777	29	20	9
C 01583		С	ED	3	3 2	25	218	3 27E	580650	3590865*	3801	270	80	190
CP 00569		CP	ED		4 3	17	218	3 28E	583549	3593414*	3839	71	50	21
C 00940		С	ED	4	4 2	25	218	S 27E	581258	3590872*	3961	42	5	37

С	ED	4 4 2 25	21S 27E	581258	3590872*	3961	72	20	52
CUB	ED	1 1 3 25	21S 27E	579927	3590559 🌑	4031	19	9	10
CUB	ED	4 1 3 25	21S 27E	579955	3590499 🌍	4091	12		
CUB	ED	3 1 3 25	21S 27E	579921	3590493 🌑	4097	12		
CUB	ED	3 1 3 25	21S 27E	579904	3590472	4118	19	8	11
CUB	ED	3 1 3 25	21S 27E	579937	3590468 🌍	4122	19	7	12
CUB	ED	1 4 09	21S 27E	575842	3595353* 🌇	4123	425	120	305
CUB	ED	3 2 4 26	21S 27E	579429	3590444* 🎒	4172	490		
СР	ED	1 3 4 17	21S 28E	583936	3593547 🎒	4174	160	151	9
CP	ED	1 3 4 17	21S 28E	583971	3593509	4218	160	149	11
С	ED	3 2 1 03	21S 27E	576959	3597669*	4253	52	14	38
С	ED	4 26	21S 27E	579327	3590338*	4290	80	32	48
С	ED	1 4 4 26	21S 27E	579432	3590241*	4374	58	5	53
С	ED	2 4 21	21S 27E	576264	3592118*	4392	150		
С	ED	1 2 4 21	21S 27E	576163	3592217*	4422	150		
CUB	ED	3 4 4 26	21S 27E	579432	3590041*	4573	80		
CUB	ED	4 4 3 25	21S 27E	580446	3590051*	4573	304		
С	СН	1 1 2 35	21S 27E	579029	3589833*	4835	130	30	100
С	ED	3 3 3 09	21S 27E	574941	3594849*	4959	92	80	12
	CUB CUB CUB CUB CUB CUB CUB CCP CC C C C CUB CUB	CUB ED CP ED CP ED C	CUB ED 1 1 3 25 CUB ED 3 1 3 25 CUB ED 1 4 09 CUB ED 1 3 4 17 CP ED 1 3 4 17 CP ED 1 3 4 17 C ED 3 2 1 03 C ED 4 26 C ED 1 4 26 C ED 1 2 4 21 CUB ED 3 4 4 26 CUB ED 3 4 4 3 25 C CH 1 1 2 35	CUB ED 1 1 3 25 21S 27E CUB ED 4 1 3 25 21S 27E CUB ED 3 1 3 25 21S 27E CUB ED 3 1 3 25 21S 27E CUB ED 3 1 4 09 21S 27E CUB ED 3 2 4 26 21S 27E CP ED 1 3 4 17 21S 28E CP ED 1 3 4 17 21S 28E CP ED 1 3 4 17 21S 27E C ED 1 3 4 17 21S 27E C ED 1 4 4 26 21S 27E C ED 1 2 </td <td>CUB ED 1 1 3 25 218 27E 579927 CUB ED 3 1 3 25 218 27E 579955 CUB ED 3 1 3 25 218 27E 579921 CUB ED 3 1 3 25 218 27E 579904 CUB ED 3 1 3 25 218 27E 579904 CUB ED 3 1 4 09 218 27E 575842 CUB ED 1 3 4 17 218 28E 583936 CP ED 1 3 4 17 218 28E 583971 C ED 3 2 1 03 218 27E 576959 C ED 4 26 218 27E 579432 C ED 4 26 218 27E 579432 C ED 2 4 21 218 27E 57664 C ED 1 2 4 21 218 27E 576163 CUB ED 3 4 4 26 218 27E 576163 CUB ED 4 4 3 25 218 27E 579432 CUB ED 3 4 4 26 218 27E 576432 CUB ED 3 4 4 26 218 27E 576163 CUB ED 4 4 3 25 218 27E 579432 CUB ED 4 4 3 25 218 27E 579029</td> <td>CUB ED 1 1 3 25 218 27E 579927 3590559 CUB ED 3 1 3 25 218 27E 579955 3590499 CUB ED 3 1 3 25 218 27E 579921 3590493 CUB ED 3 1 3 25 218 27E 579904 3590472 CUB ED 3 1 3 25 218 27E 579904 3590472 CUB ED 1 4 09 218 27E 575842 3595353* CUB ED 3 2 4 26 218 27E 579429 3590444* CP ED 1 3 4 17 218 28E 583936 3593547 CP ED 1 3 4 17 218 28E 583971 3593509 CP ED 1 3 4 17 218 28E 583971 3593509 CP ED 1 4 26 218 27E 576959 3597669* CP ED 1 4 26 218 27E 576959 3590338* CP ED 1 4 4 26 218 27E 576959 3590338* CP ED 1 4 4 26 218 27E 576959 3590341* CP ED 1 2 4 21 218 27E 576264 3592118* CP ED 1 2 4 21 218 27E 576264 3592118* CP ED 1 2 4 21 218 27E 57633 3590241* CP ED 1 2 4 21 218 27E 57633 3590041* CP ED 1 2 4 21 218 27E 576432 3590041* CP ED 1 2 4 21 218 27E 576432 3590041* CP ED 1 2 4 21 218 27E 576264 3592118* CP ED 1 2 4 21 218 27E 576264 3592118* CP ED 1 2 4 21 218 27E 57633 3590041* CP ED 1 2 3 5 218 27E 579432 3590041* CP ED 1 1 2 3 5 218 27E 579432 3590041* CP ED 1 1 2 3 5 218 27E 579432 3590041* CP ED 1 1 1 1 2 35 218 27E 579432 3590041* CP ED 1 1 1 1 2 35 218 27E 579432 3590041* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833*</td> <td>CUB ED 1 1 3 25 218 27E 579927 3590559 4031 CUB ED 4 1 3 25 218 27E 579955 3590499 4091 CUB ED 3 1 3 25 218 27E 579921 3590499 4097 CUB ED 3 1 3 25 218 27E 579904 3590472 4118 CUB ED 3 1 3 25 218 27E 579904 3590472 4118 CUB ED 3 1 3 25 218 27E 579937 3590468 4122 CUB ED 1 4 09 218 27E 575842 3595353* 4123 CUB ED 3 2 4 26 218 27E 579429 3590444* 4172 CP ED 1 3 4 17 218 28E 583936 3593547 4174 CP ED 1 3 4 17 218 28E 583931 3593547 4174 CP ED 1 3 4 17 218 28E 583971 3593509 4218 C ED 4 26 218 27E 576959 3597669* 4253 C ED 4 26 218 27E 579432 3590338* 4290 C ED 1 4 4 26 218 27E 576264 3592118* 4392 C ED 1 2 4 21 218 27E 576264 3592118* 4392 CUB ED 3 4 4 26 218 27E 576463 3592217* 4422 CUB ED 4 4 3 25 218 27E 579432 3590041* 44573 CUB ED 4 4 3 25 218 27E 579432 3590041* 4573 CUB ED 4 4 3 25 218 27E 579432 3590051* 44573 CUB ED 4 4 3 25 218 27E 579432 3590051* 4573 CUB ED 4 4 3 25 218 27E 580446 3590051* 4573</td> <td>CUB ED 1 1 3 25 218 27E 579927 3590559 4031 19 CUB ED 4 1 3 25 218 27E 579925 3590499 4091 12 CUB ED 3 1 3 25 218 27E 579921 3590493 4097 12 CUB ED 3 1 3 25 218 27E 579921 3590493 4097 12 CUB ED 3 1 3 25 218 27E 579904 3590472 4118 19 CUB ED 3 1 3 25 218 27E 579937 3590468 4122 19 CUB ED 3 1 4 09 218 27E 575842 3595353* 4123 425 CUB ED 3 2 4 26 218 27E 579429 3590444* 4172 490 CP ED 1 3 4 17 218 28E 583936 3593547 4174 160 CP ED 1 3 4 17 218 28E 583971 3593509 4218 160 CP ED 3 2 1 03 218 27E 576959 3597669* 4253 52 C ED 4 26 218 27E 579327 3590338* 4290 80 C ED 1 4 4 26 218 27E 579432 3590241* 4374 58 C ED 2 4 21 218 27E 576264 3592118* 4392 150 CUB ED 3 4 4 26 218 27E 576163 3592217* 4422 150 CUB ED 3 4 4 26 218 27E 579432 3590041* 4422 150 CUB ED 3 4 4 26 218 27E 579432 3590041* 4422 150 CUB ED 4 4 3 25 218 27E 579432 3590041* 4422 150 CUB ED 4 4 3 25 218 27E 579432 3590041* 4422 150 CUB ED 4 4 3 25 218 27E 579432 3590041* 4422 150 CUB ED 4 4 3 25 218 27E 579432 3590041* 4422 150 CUB ED 4 4 3 3 25 218 27E 579432 3590041* 4422 150 CUB ED 4 4 3 3 25 218 27E 579432 3590041* 4422 150</td> <td>CUB ED 1 1 3 25 218 27E 579927 3590559 4031 19 9 CUB ED 4 1 3 25 218 27E 579927 3590559 4091 12 CUB ED 3 1 3 25 218 27E 579921 3590499 4097 12 CUB ED 3 1 3 25 218 27E 579921 3590493 4097 12 CUB ED 3 1 3 25 218 27E 579921 3590493 4118 19 8 CUB ED 3 1 3 25 218 27E 579937 3590468 41122 19 7 CUB ED 1 4 09 218 27E 575842 3595353 4123 425 120 CUB ED 3 2 4 26 218 27E 579429 3590444 4172 490 CP ED 1 3 4 17 218 28E 583936 3593547 4174 160 151 CP ED 1 3 4 17 218 28E 583971 3593509 4218 160 149 C ED 3 2 1 03 218 27E 579429 359069 4253 52 14 C ED 4 26 218 27E 579429 3590441 4174 58 52 C ED 1 4 4 26 218 27E 579327 3590338 4290 80 32 C ED 1 4 4 26 218 27E 579432 3590241 4174 58 5 C ED 2 4 21 218 27E 576264 3592118 4374 58 5 C ED 2 4 21 218 27E 576264 3592118 4392 150 CUB ED 3 4 4 26 218 27E 576264 3592118 4392 150 CUB ED 3 4 4 26 218 27E 576323 3590041 4422 150 CUB ED 4 4 3 25 218 27E 579432 3590041 4422 150 CUB ED 4 4 3 25 218 27E 578432 3590041 4422 150 CUB ED 4 4 3 25 218 27E 578432 3590041 4422 150 CUB ED 4 4 3 25 218 27E 578432 3590041 4422 150 CUB ED 4 4 3 25 218 27E 578432 3590041 4422 150 CUB ED 4 4 3 25 218 27E 578664 3590051 4422 150 CUB ED 4 4 3 25 218 27E 580446 3590051 44573 304 C CH 1 1 2 2 35 218 27E 580446 3590051 4573 304</td>	CUB ED 1 1 3 25 218 27E 579927 CUB ED 3 1 3 25 218 27E 579955 CUB ED 3 1 3 25 218 27E 579921 CUB ED 3 1 3 25 218 27E 579904 CUB ED 3 1 3 25 218 27E 579904 CUB ED 3 1 4 09 218 27E 575842 CUB ED 1 3 4 17 218 28E 583936 CP ED 1 3 4 17 218 28E 583971 C ED 3 2 1 03 218 27E 576959 C ED 4 26 218 27E 579432 C ED 4 26 218 27E 579432 C ED 2 4 21 218 27E 57664 C ED 1 2 4 21 218 27E 576163 CUB ED 3 4 4 26 218 27E 576163 CUB ED 4 4 3 25 218 27E 579432 CUB ED 3 4 4 26 218 27E 576432 CUB ED 3 4 4 26 218 27E 576163 CUB ED 4 4 3 25 218 27E 579432 CUB ED 4 4 3 25 218 27E 579029	CUB ED 1 1 3 25 218 27E 579927 3590559 CUB ED 3 1 3 25 218 27E 579955 3590499 CUB ED 3 1 3 25 218 27E 579921 3590493 CUB ED 3 1 3 25 218 27E 579904 3590472 CUB ED 3 1 3 25 218 27E 579904 3590472 CUB ED 1 4 09 218 27E 575842 3595353* CUB ED 3 2 4 26 218 27E 579429 3590444* CP ED 1 3 4 17 218 28E 583936 3593547 CP ED 1 3 4 17 218 28E 583971 3593509 CP ED 1 3 4 17 218 28E 583971 3593509 CP ED 1 4 26 218 27E 576959 3597669* CP ED 1 4 26 218 27E 576959 3590338* CP ED 1 4 4 26 218 27E 576959 3590338* CP ED 1 4 4 26 218 27E 576959 3590341* CP ED 1 2 4 21 218 27E 576264 3592118* CP ED 1 2 4 21 218 27E 576264 3592118* CP ED 1 2 4 21 218 27E 57633 3590241* CP ED 1 2 4 21 218 27E 57633 3590041* CP ED 1 2 4 21 218 27E 576432 3590041* CP ED 1 2 4 21 218 27E 576432 3590041* CP ED 1 2 4 21 218 27E 576264 3592118* CP ED 1 2 4 21 218 27E 576264 3592118* CP ED 1 2 4 21 218 27E 57633 3590041* CP ED 1 2 3 5 218 27E 579432 3590041* CP ED 1 1 2 3 5 218 27E 579432 3590041* CP ED 1 1 2 3 5 218 27E 579432 3590041* CP ED 1 1 1 1 2 35 218 27E 579432 3590041* CP ED 1 1 1 1 2 35 218 27E 579432 3590041* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833* CP ED 1 1 1 1 1 2 35 218 27E 579029 3589833*	CUB ED 1 1 3 25 218 27E 579927 3590559 4031 CUB ED 4 1 3 25 218 27E 579955 3590499 4091 CUB ED 3 1 3 25 218 27E 579921 3590499 4097 CUB ED 3 1 3 25 218 27E 579904 3590472 4118 CUB ED 3 1 3 25 218 27E 579904 3590472 4118 CUB ED 3 1 3 25 218 27E 579937 3590468 4122 CUB ED 1 4 09 218 27E 575842 3595353* 4123 CUB ED 3 2 4 26 218 27E 579429 3590444* 4172 CP ED 1 3 4 17 218 28E 583936 3593547 4174 CP ED 1 3 4 17 218 28E 583931 3593547 4174 CP ED 1 3 4 17 218 28E 583971 3593509 4218 C ED 4 26 218 27E 576959 3597669* 4253 C ED 4 26 218 27E 579432 3590338* 4290 C ED 1 4 4 26 218 27E 576264 3592118* 4392 C ED 1 2 4 21 218 27E 576264 3592118* 4392 CUB ED 3 4 4 26 218 27E 576463 3592217* 4422 CUB ED 4 4 3 25 218 27E 579432 3590041* 44573 CUB ED 4 4 3 25 218 27E 579432 3590041* 4573 CUB ED 4 4 3 25 218 27E 579432 3590051* 44573 CUB ED 4 4 3 25 218 27E 579432 3590051* 4573 CUB ED 4 4 3 25 218 27E 580446 3590051* 4573	CUB ED 1 1 3 25 218 27E 579927 3590559 4031 19 CUB ED 4 1 3 25 218 27E 579925 3590499 4091 12 CUB ED 3 1 3 25 218 27E 579921 3590493 4097 12 CUB ED 3 1 3 25 218 27E 579921 3590493 4097 12 CUB ED 3 1 3 25 218 27E 579904 3590472 4118 19 CUB ED 3 1 3 25 218 27E 579937 3590468 4122 19 CUB ED 3 1 4 09 218 27E 575842 3595353* 4123 425 CUB ED 3 2 4 26 218 27E 579429 3590444* 4172 490 CP ED 1 3 4 17 218 28E 583936 3593547 4174 160 CP ED 1 3 4 17 218 28E 583971 3593509 4218 160 CP ED 3 2 1 03 218 27E 576959 3597669* 4253 52 C ED 4 26 218 27E 579327 3590338* 4290 80 C ED 1 4 4 26 218 27E 579432 3590241* 4374 58 C ED 2 4 21 218 27E 576264 3592118* 4392 150 CUB ED 3 4 4 26 218 27E 576163 3592217* 4422 150 CUB ED 3 4 4 26 218 27E 579432 3590041* 4422 150 CUB ED 3 4 4 26 218 27E 579432 3590041* 4422 150 CUB ED 4 4 3 25 218 27E 579432 3590041* 4422 150 CUB ED 4 4 3 25 218 27E 579432 3590041* 4422 150 CUB ED 4 4 3 25 218 27E 579432 3590041* 4422 150 CUB ED 4 4 3 25 218 27E 579432 3590041* 4422 150 CUB ED 4 4 3 3 25 218 27E 579432 3590041* 4422 150 CUB ED 4 4 3 3 25 218 27E 579432 3590041* 4422 150	CUB ED 1 1 3 25 218 27E 579927 3590559 4031 19 9 CUB ED 4 1 3 25 218 27E 579927 3590559 4091 12 CUB ED 3 1 3 25 218 27E 579921 3590499 4097 12 CUB ED 3 1 3 25 218 27E 579921 3590493 4097 12 CUB ED 3 1 3 25 218 27E 579921 3590493 4118 19 8 CUB ED 3 1 3 25 218 27E 579937 3590468 41122 19 7 CUB ED 1 4 09 218 27E 575842 3595353 4123 425 120 CUB ED 3 2 4 26 218 27E 579429 3590444 4172 490 CP ED 1 3 4 17 218 28E 583936 3593547 4174 160 151 CP ED 1 3 4 17 218 28E 583971 3593509 4218 160 149 C ED 3 2 1 03 218 27E 579429 359069 4253 52 14 C ED 4 26 218 27E 579429 3590441 4174 58 52 C ED 1 4 4 26 218 27E 579327 3590338 4290 80 32 C ED 1 4 4 26 218 27E 579432 3590241 4174 58 5 C ED 2 4 21 218 27E 576264 3592118 4374 58 5 C ED 2 4 21 218 27E 576264 3592118 4392 150 CUB ED 3 4 4 26 218 27E 576264 3592118 4392 150 CUB ED 3 4 4 26 218 27E 576323 3590041 4422 150 CUB ED 4 4 3 25 218 27E 579432 3590041 4422 150 CUB ED 4 4 3 25 218 27E 578432 3590041 4422 150 CUB ED 4 4 3 25 218 27E 578432 3590041 4422 150 CUB ED 4 4 3 25 218 27E 578432 3590041 4422 150 CUB ED 4 4 3 25 218 27E 578432 3590041 4422 150 CUB ED 4 4 3 25 218 27E 578664 3590051 4422 150 CUB ED 4 4 3 25 218 27E 580446 3590051 44573 304 C CH 1 1 2 2 35 218 27E 580446 3590051 4573 304

Record Count: 52

UTMNAD83 Radius Search (in meters):

Easting (X): 579894

Northing (Y): 3594591

Radius: 5000

Average Depth to Water: Minimum Depth:

Maximum Depth:

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, or suitability for any particular purpose of the data.

2/13/19 10:44 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

51 feet

5 feet 186 feet

^{*}UTM location was derived from PLSS - see Help

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. Frencis Dr. Scatt Fe, NM 8755

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Attached

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 **Release Notification and Corrective Action OPERATOR** Initial Report Name of Company Devon Energy Production Company /0/31 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 Mineral Owner State API No 30-015-41738 LOCATION OF RELEASE Unit Letter Feet from the North/South Line Feet from the East/West Line Section Township Range County Eddy В 13 **21S** 27E 150 North 1980 East 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 **Date and Hour of Occurrence** Date and Hour of Discovery 3/H/2017-@ 12:45pm 271172017 @ 12:45pm Storage Tank Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required OCD-Mike Bratcher & Crystal Weaver By Whom? Wesley Ryan-Production Foreman **Date and Hour** OCD& BLM -10/24/2017 @7:16 pm (via e-mail) Was a Watercourse Reached? If YES, Volume Impacting the Watercourse ☐ Yes 🛛 No 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. OIL CONSERVATION DIVISION Signature: Dana DeLaRosa Approved by Environmental Specialist Printed Name: Dana DeLaRosa Expiration Date: Title: Field Admin Support

Conditions of Approval

* Attach Additional Sheets If Necessary

E-mail Address: Dana.Delarosa@dvn.com

Phone: 575.746.5594

11UUSAB

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

	Respo	nsible Party	7					
evon Energy Prod	uction Company	OGRID						
	•		Contact Telephone					
		Incident #	Incident # (assigned by OCD)					
	Artesia NM 882	211						
22.4871712 Longitude								
1712	(NAD 83 in decir	Dongitude _						
	(IVAD 65 in decir							
	2H							
red 8/23/2018		API# (if app	licable) 30-015-40372					
n Townshin	Range	Coun	tv					
	Nature and	Volume of 1	justification for the volumes provided below)					
			Volume Recovered (bbls) None					
			Volume Recovered (bbls)					
			Yes No					
			Volume Recovered (bbls)					
Volume Release	ed (Mcf)		Volume Recovered (Mcf)					
Volume/Weight	Released (provide	units)	Volume/Weight Recovered (provide units)					
	t Fulks Ifulks@dvn.com Ifulk	Evon Energy Production Company It Fulks It fulks@dvn.com Ess PO Box 250, Artesia NM 882 Location of 171712 (NAD 83 in decinor) Ess PO Box 250, Artesia NM 882 Location of 171712 (NAD 83 in decinor) Ess PO Box 250, Artesia NM 882 Location of 171712 (NAD 83 in decinor) Ess PO Box 250, Artesia NM 882 In a constant of 171712 (NAD 83 in decinor) Ess PO Box 250, Artesia NM 882 In a constant of 171712 (NAD 83 in decinor) Ess PO Box 250, Artesia NM 882 In a constant of 171712 (NAD 83 in decinor) In a constant of 171712 In a cons	Touriship Range Coun Township Range Coun 21S 27E Edo Released (Select all that apply and attach calculations or specific Volume Released (bbls) Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? Contact Te Incident # Incident					

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?	If YES, for what reason(s) does the respons	ible party consider this a major release?							
Yes No									
If YES, was immediate no	ctice given to the OCD? By whom? To who	om? 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 rele	ease has been stopped.								
■ The impacted area ha	as been secured to protect human health and t	he environment.							
Released materials ha	ave been contained via the use of berms or di	kes, absorbent pads, or other containment devices.							
■ All free liquids and re									
If all the actions describe	d above have <u>not</u> been undertaken, explain w	hy:							
D 10 15 20 8 D (4) NA	AAC the grown and blo nexts may common as to	mediation immediately after discovery of a release. If remediation							
has begun, please attach	a narrative of actions to date. If remedial e	fforts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.							
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations.	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								
Printed Name: Dana	DeLaRosa	Title: Field Admin Support							
Signature:		Date:							
dana.delai	rosa@dvn.com	Telephone: 575.748.3371							
email:		recpnone:							
OCD Only									
		Date:							
Received by:									

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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

			Kespo	nsible i arty				
Responsible	Party Devo	n Energy Prod	uction Company	OGRID				
Contact Nam	e Brett Fu	ulks		Contact Te	Contact Telephone			
Contact emai	il brett.fu	lks@dvn.com		Incident #	(assigned by OCD)			
			Artesia NM 882	211				
I.,,,				f Release Se	ource			
3	2.4871 ⁻	712			-104.1494293			
Latitude		· · -	(NAD 83 in decim	Longitude _ nal degrees to 5 decin				
Site Name 1		13 State Com	211	Site Type	Oil			
Date Release			2Π		licable) 30-015-40372			
Date Release	Discovered	8/24/2018		Al I# (ij app	30-015-40372			
Unit Letter	Section	Township	Range	Cour	ty			
D	13	21S	27E	Edo	ly			
	Materia	l(s) Released (Select al		Volume of 1	justification for the volumes provided below)			
Crude Oi		Volume Release			Volume Recovered (bbls)			
Produced	Water	Volume Release			Volume Recovered (bbls) 5.0			
		in the produced	ion of total dissolve water >10,000 mg/l		Yes No			
Condensa		Volume Release			Volume Recovered (bbls)			
☐ Natural C	ias	Volume Release	d (Mcf)		Volume Recovered (Mcf)			
Other (de	Other (describe) Volume/Weight Released (provide un		ınits)	Volume/Weight Recovered (provide units)				
Cause of Rel	ease	1						

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	If YES, for what reason(s) does the respon	sible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ■ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
11 120, 11	, ·	•
	Initial Re	esponse
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 rele	ease has been stopped.	
	as been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain v	vhy:
Per 19.15.29.8 B. (4) NM	MAC the responsible party may commence re	emediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial of area (see 19.15.29.11(A)(5)(a) NMAC), is	efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release noti	fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
failed to adequately investig	gate and remediate contamination that pose a thre	at to groundwater, surface water, human health or the environment. In
and/or regulations.	-	responsibility for compliance with any other federal, state, or local laws
Printed Name: Dana	DeLaRosa	Title: Field Admin Support
Signature:		Date:
dana delar	rosa@dvn.com	Telephone: 575.748.3371
email:		Telephone:
och o l		
OCD Only		
Received by:		Date:

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Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

			Respoi	isible Part	y		
Responsible	Party Devo	n Energy Prod	uction Company	OGRID			
Contact Nam	ne Brett F	ulks		Contact Te	elephone		
Contact ema	^{il} brett.fu	lks@dvn.com		Incident #	Incident # (assigned by OCD)		
			Artesia NM 882	11			
			Location of	f Release S	ource		
Latitude 3	2.4871	712		Longitude _	-104.1494293		
Lantude			(NAD 83 in decime	al degrees to 5 decin	nal places)		
Site Name	one Tree	13 State Com	2H	Site Type	Oil		
		8/30/2018		API# (if app	olicable) 30-015-40372		
	1 "						
Unit Letter	Section	Township	Range	Cour			
D	13	21S	27E	Edd	dy		
Surface Owne	r: 🔳 State	☐ Federal ☐ Tr	ibal Private (Nar)		
			Nature and V	Volume of 1	Release		
				culations or specific	justification for the volumes provided below)		
Crude Oi			d (bbls) .347bbls		Volume Recovered (bbls) None		
Produced	Water	Volume Release			Volume Recovered (bbls)		
		l .	ion of total dissolved water >10,000 mg/l?	, ,	Yes No		
Condensa	ate	Volume Release			Volume Recovered (bbls)		
☐ Natural C	J as	Volume Release	d (Mcf)		Volume Recovered (Mcf)		
Other (de	escribe)	Volume/Weight	Released (provide un	nits)	Volume/Weight Recovered (provide units)		
Cause of Rel	ease				<u> </u>		

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

release as defined by 19.15.29.7(A) NMAC?	IT TES, for what reason(s) does me respon	sible party consider this a major release:
☐ Yes ■ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Re	esponse
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
■ The source of the rele	ease has been stopped.	
■ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	we been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	I managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig addition, OCD acceptance of and/or regulations.	required to report and/or file certain release notinent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a thre f a C-141 report does not relieve the operator of	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger ICD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Dana	DeLaRosa	Title: Field Admin Support
Signature:		Date:
_{email:} dana.delar	osa@dvn.com	Date:
OCD Only		
Received by:		Date:

APPENDIX IV FEMA Flood Map

National Flood Hazard Layer FIRMette







Legend

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

SPECIAL FLOOD HAZARD AREAS





With BFE or Depth Zone AE, AO, AH, VE, AR Without Base Flood Elevation (BFE) Zone A, V, A99

Regulatory Floodway



Future Conditions 1% Annual

0,2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainag

areas of less than one square mile Zone



Chance Flood Hazard Zone X Area with Reduced Flood Risk due to



Area with Flood Risk due to Levee Zone D



Area of Undetermined Flood Hazard Zona

STRUCTURES 1111111 Levee, Dike, or Floodwall Channel, Culvert, or Storm Sewer



Cross Sections with 1% Annual Chance Coastal Transect Water Surface Elevation



Profile Baseline Coastal Transect Baseline Jurisdiction Boundary

FEATURES OTHER

Hydrographic Feature





Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represe an authoritative property location.

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

was exported on 2/11/2019 at 1:31:43 PM and does not authoritative NFHL web services provided by FEMA. This map The flood hazard information is derived directly from the become superseded by new data over time. time. The NFHL and effective information may change or reflect changes or amendments subsequent to this date and

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, unmapped and unmodernized areas cannot be used for FIRM panel number, and FIRM effective date. Map images for

250

500

1,000

1,500

2,000 Feet

1:6,000

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

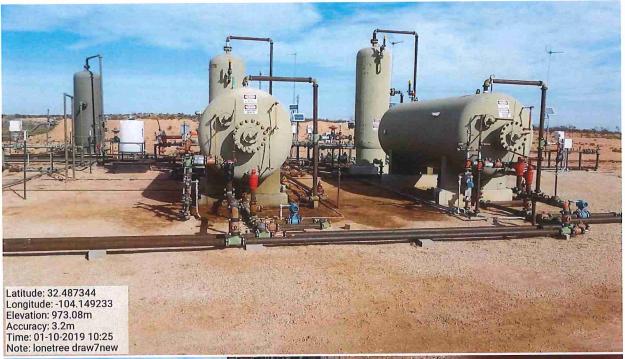
South side of separator battery/spill area

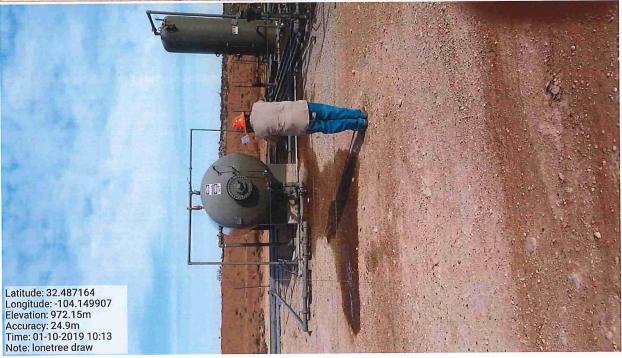




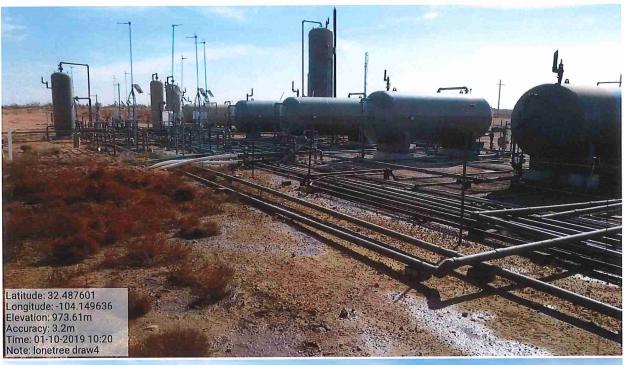








North side of spill area





APPENDIX VI LABORATORY REPORTS



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.qov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keene

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



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: Project Location: 700794.276.01

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	% 69.8-14	2						
Chloride, SM4500CI-B	hloride, 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	17						

Cardinal Laboratories

*=Accredited Analyte

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Celley & Keens -



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: Project Location:

700794.276.01 **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 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 (PIL	112	% 69.8-14	2						
Chloride, SM4500Cl-B	hloride, SM4500Cl-B mg/kg		Analyzed By: AC				Marine Co.		
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	Analyze	d By; MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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*=Accredited Analyte

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Celeg & treens-



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: Sample Received By: Cool & Intact

Tamara Oldaker

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	% 69.8-14	2						
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	10/15/2018	ND	384	96.0	400	8.00	
TPH 8015M	mg	/kg	Analyze	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	% 37.6-14	7						

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Celey & Kuna



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: Project Location:

700794.276.01 DEVON - EDDY CO NM Sampling Date:

10/10/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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 (PIL	113 9	% 69.8-14	2						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10,0	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	% 37.6-14	7						

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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: Sample Received By: Cool & Intact

Tamara Oldaker

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

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	110	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC				1000 T		
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	2						
Surrogate: 1-Chlorooctadecane	96.0	% 37.6-14	17						

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*=Accredited Analyte

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Celeg & Kuna



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

10/11/2018

10/18/2018

Sampling Date:

10/10/2018

Reported: Project Name:

Sampling Type:

Soil

LONE TREE DRAW #13

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location: 700794.276.01

DEVON - EDDY CO NM

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

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	112 9	% 69.8-14	2						
Chloride, SM4500CI-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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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aleg & Kenne



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 3' (H802901-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS			·**		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	113 9	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2018	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	17						

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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: Sampling Condition: Sample Received By: Soil Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d 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 BTEX	83.8	3.00	10/12/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	133	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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10/18/2018

Project Name:

LONE TREE DRAW #13

Project Number: Project Location: 700794.276.01

DEVON - EDDY CO NM

Sampling Date:

10/10/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d 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 BTEX	109	1.20	10/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	181	% 69.8-14	2						
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	Analyze	d 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	2						
Surrogate: 1-Chlorooctadecane	135	% 37.6-14	17						

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Project Name:

LONE TREE DRAW #13

Project Number:

700794.276.01

Project Location:

DEVON - EDDY CO NM

Sampling Date: Sampling Type: 10/10/2018

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTEX	<0.300	0.300	10/18/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/16/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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10/18/2018

Project Name:

LONE TREE DRAW #13

Project Number:

700794.276.01

Project Location:

DEVON - EDDY CO NM

Sampling Date: Sampling Type: 10/10/2018

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

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*	0.251	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 (PIL	97.0	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 37.6-14	7						

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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: S

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL	98.3	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	17						

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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)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL	97.2	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2018	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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10/18/2018

Project Name:

LONE TREE DRAW #13

Project Number: Project Location:

700794.276.01

DEVON - EDDY CO NM

Sampling Date: Sampling Type:

10/10/2018

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL	97.1	% 69.8-14	2						
Chloride, SM4500CI-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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Reported:

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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: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyzed By: ms				<u> </u>		
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 (PIL	1169	% 69.8-14	2						
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	Analyze	d 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	% 37.6-14	7						

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Received:

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Reported:

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Project Name:

LONE TREE DRAW #13

Project Number:

700794.276.01

Project Location:

DEVON - EDDY CO NM

Sampling Date:

10/10/2018

Sampling Type: Sampling Condition: Sample Received By: Soil

Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTEX	4.46	0.300	10/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	120	% 69.8-14	2						
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	Analyze	d 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	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Clay D. Kens



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 Type:

Sampling Date:

10/10/2018

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL	99.5	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Clay to Kenna



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

700794.276.01

Sample Received By:

Tamara Oldaker

Project Number: Project Location:

DEVON - EDDY CO NM

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

BTEX 8021B	mg/	/kg	Analyze	d By: ms			**************************************		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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					

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS				<u>-</u>	
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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Celeg & Keena



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: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL	99.0	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.1	% 37.6-14	17						

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Celey D. Keene



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: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d 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 (PIL	133	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/16/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d 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	% 37.6-14	7						

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Celey & Keens



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: Sampling Condition: Soil

Sample Received By:

Cool & Intact Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d 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 BTEX	67.7	1.20	10/15/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	126	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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Celeg & Keena



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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Celeg & Keens



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

Seminary of the seminary of th			and the second s											
Company Name:	Talay LAC			118	BILLTO				ANAL	ANALYSIS REQUEST	QUES	ĺ		L
Project Manager:	DAUG ADKINS	יע		P.O. #: 700	700794 276,0									
Address:	408 W. Texas AVE	100		Company: 1	Tayou CRE									
city: A	Arts 19 State: NX Zip:	Zip:	88210	Attn:						-				
Phone #: 57	575.441 4835 Fax#			Address:										
Project #: 70	Project #: 706794.276, 01 Project Owner: Devo N	5	e Vo v	City:									•	
Project Name:	Lone Tree Draw #13	M.		State: Z	Zip:			2						 2 0
Project Location:	: Bldy to sind			Phone #:				le						
Sampler Name:	muke dollier			Fax #:		<u></u>		rla	-					 ***********
FOR CAB USE ONLY			MATRIX	PRESERV	SAMPLING	5		Los						
Lab I.D. 	Sample l.D.	(G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	BTE	10t	ch						
2	S-1 0'	9	<u> </u>	7	19/19/18	Z	ζ)	7						
2	S-1 /'	<u>L</u>		_		_	<u> </u>							
E)	S-1 2'													
	S-2 01					_	_							
5	5-2 11													
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で	S-3 11												_	
<i>}</i>)		~		•				_						

PLEASE NOTE: Liability and Damages. Gardinal's liability and client's oxclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses, All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after competion of the applicable sonice, in no event shall Cardinal be liable (or hielectual or consequental damages, including whenter including the material least including in close or successors arising out of or related to the performance of services thereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Re∦nquished By: Relinquished By: Delivered By: (Circle One) he as. Time: 7:16.4 Date: //-//-/8 Time; 0; 30 Date: 1/-/8 Réceived By: Sample Condition
Cool Intact
Yes 3 Yes
No No 6.6 CHECKEDAY Phone Result:
Fax Result:
REMARKS: □ Yes

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

Sampler - UPS - Bus - Other:

1.20

d

(Initials)



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

Company Marine: TXLOC LDC	BILL 70	ANALYSIS REQUEST
Project Manager: DAU DADKWS	10926764606 #.0.9	
Address: 408 W-Tagos the	Company:	
City: Artesca State: NM Zip: 88210	Attn:	
Phone #: 575.441. 4835 Fax #:	Address:	
Project #: 706794.276.01 Project Owner: De YON	City:	
Project Name: LONE Tree Draw #13	State: Zip:	
Project Location: (5 doly County NA	Phone #:	2
Sampler Name: Mylle dellier	Fax#:	de
	PRESERV. SAMPLING	·
(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTBY TPH Chlo
-\-	10/18/12	7
12 5-4 /		
13 5-4 2'		
1		
B S-S-S-		
17 5-5 2		
18 5-5 2		
19 5-5 4		

PLEASE NOTE: Liability and Damages, Cardinat's lability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount pold by the client for the analyses. All claims including those for regisgence and any other course whatsourer shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable considers. In a circuit shall cardinal be finds be in conceptental damages, including without limitation, business has of use, or loss of profits incurred by client, its subaddance, and the conceptental damages, including without limitation, business has required.

6	reunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.
Relinquished By:	Date: Received By: Phone Result: Yes O No Add'l Phone #:
- 0	Fax Result:
Mad Call.	Time: Time: REMARKS:
Refinquished By:	Date: /// Received By:
- Day Regr	Time: 30 Munara Sillasta
Delivered By: (Circle One)	Sample Condition CHECKED BY:
Sampler - UPS - Bus - Other:	1.20 #G7 Cool Intact (Initials)
_	5



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

Company Name:	Tabou LPE		OL 778	ANALYSIS REQUEST	
Project Manager:	DASID ADKINS		P.O.#: 70079427601		
Address: 4	408 W. TEXAS ANA	7	Company:		
City: PS-	Artes a state: NM Zip:	Zip: 892-10	Attn:		
Phone #: \$75	575-441. 4835 Fax#		Address:		
Project #: 70076	700794.276.01 Project Owner:	# (Devolo	City:		
Project Name:	Lune Tree Draw +	A W	State: Zip:		•
Project Location:	Eddy Co. N.M.	\$	Phone #:	es	
Sampler Name:	theirs dollar		Fax #:	d	
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLING		
Lab I.D.	Sample I.D.		ASE: OOL	BIEX TPH Chlo	
10 back		# CONT	OTHER ACID/B/ ICE / CC OTHER DATE TIME		
20	S-6 0'	7	٢		
2124	5-6 0.5	61	31/01/01		
	All the second s				
PLEASE NOTE: Liability and Dama	ges. Cardinals liability and client's exclusive remedy for a	any claim orising whether based in contract	PLEASE NOTE: Liability and Comages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lort, shall be limited to the amount paid by the client for the	the	
analyses. All claims including those service. In no event shall Cardinal b affiliates or successors arising out of	for negligence and any other cause whatsonver shall be a liable for incidental or cansequental damages, including or related to the performance of services because her a	deemed vaived unless made in writing and y without limitation, business interruptions, it without limitation of the business of the later of the lat	onlysts. All claims including those for negligence and any other cause whatsoever shall be deemed valved 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 cantesquential damages, including without immitted, publicable interruptions, loss of use, or loss of partie incurred by other, to autosticables, affiliate an equipment of the property of the pro	e applicable les,	
Relinquished By:	Date:	. Received By: 🧷	Phone Result:	:ult: ☐ Yes ☐ No Add'I Phone #:	

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

Sampler - UPS - Bus - Other:

1.20

Delivered By: (Circle One)

Sample Condition
Cool Intact
Cyes 7 Yes

CHECKED BY:
(Initials)

Time:

Received By:

Phone Result: Fax Result: REMARKS:

□ Yes □ No

Add'l Fax #:

Relinquished By:



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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



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)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTEX	0.542	0.300	01/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/17/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	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	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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Fax To:

(575) 745-8905

Received:

01/16/2019

01/21/2019

Reported: Project Name:

LONE TREE

Project Number: Project Location: NONE GIVEN

DEVON - EDDY CO NM

Sampling Date:

01/15/2019

Soil

Sampling Type: Sampling Condition: Sample Received By:

Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Celeg Ditreme -

Celey D. Keene, Lab Director/Quality Manager



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

ì

Received: 01/16/2019 Reported: 01/21/2019

Reported: 01/21/2019 Project Name: LONE TREE

Project Number:

BTEX 8021B

NONE GIVEN

ma/ka

84.9 %

37.6-147

Project Location:

DEVON - EDDY CO NM

Sampling Date:

01/15/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BIEX 8021B	mg/	кд	Analyze	d 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 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/17/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 41-142							

Analyzed By: me

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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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)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Celeg & Keena

Celey D. Keene, Lab Director/Quality Manager



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Fax To:

(575) 745-8905

Received: Reported: 01/16/2019

01/21/2019

LONE TREE

Project Name: 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)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					7-10-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
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 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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

Sampling Condition:

Cool & Intact

Project Name:

LONE TREE NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Number: Project Location:

DEVON - EDDY CO NM

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	6 73.3-12	9						
Chloride, SM4500CI-B	.mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	<u>}</u>						
Surrogate: 1-Chlorooctadecane	78.0	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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Fax To:

(575) 745-8905

Received:

01/16/2019

Sampling Date:

01/15/2019

Reported:

01/21/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Project Name:

LONE TREE NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Number: Project Location:

DEVON - EDDY CO NM

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

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC		The state of the s			
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	<u> </u>						
Surrogate: 1-Chlorooctadecane	86.7	% 37.6-14	7						

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Fax To:

(575) 745-8905

Received: Reported: 01/16/2019

01/21/2019

Project Name:

LONE TREE

Project Number:

NONE GIVEN

293 %

37.6-147

Project Location:

DEVON - EDDY CO NM

Sampling Date:

01/15/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg	/kg	Analyze	d 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 (PIL	116	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/17/2019	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d 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							

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d By: ms	CL-State				45-7-04-04-04-0
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 (PIL	103 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/17/2019	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Celeg & Keene



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:

Sampling Date:

01/15/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Tamara Oldaker

DEVON - EDDY CO NM

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 (PIL	105 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/17/2019	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 41-142							
Surrogate: 1-Chlorooctadecane	83.3 9	% 37.6-14	7						

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Celeg D Keens

Celey D. Keene, Lab Director/Quality Manager



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

Received: Reported: 01/16/2019

01/10/2019

Project Name: Project Number: LONE TREE

Project Location:

NONE GIVEN
DEVON - EDDY CO NM

Sampling Date:

01/15/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	103 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Clay & Keens



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 Name: 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 8' (H900150-12)

BTEX 8021B	mg/	kg	Analyze	d By: ms			- TU-70 TO - D		
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 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 %	6 41-142							
Surrogate: 1-Chlorooctadecane	86.9 %	6 37.6-14	7						

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alex & Kenne



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:

Soil

01/21/2019

Sampling Type:

Cool & Intact

Project Name:

LONE TREE NONE GIVEN Sampling Condition: Sample Received By:

Tamara Oldaker

Project Number: Project Location:

DEVON - EDDY CO NM

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

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050						•	Qualifici
	0.050	01/18/2019	ND	2.01	101	2.00	0.428	
<0.050	0.050	01/18/2019	ND	1.96	97.9	2.00	1.77	
<0.050	0.050	01/18/2019	ND	1.91	95.5	2.00	1.07	
<0.150	0.150	01/18/2019	ND	5.76	96.1	6.00	0.964	
<0.300	0.300	01/18/2019	ND					
	<0.050 <0.150	<0.050 0.050 <0.150 0.150	<0.050	<0.050 0.050 01/18/2019 ND <0.150 01/18/2019 ND	<0.050 0.050 01/18/2019 ND 1.91 <0.150 0.150 01/18/2019 ND 5.76	<0.050 0.050 01/18/2019 ND 1.91 95.5 <0.150 0.150 01/18/2019 ND 5.76 96.1	<0.050 0.050 01/18/2019 ND 1.91 95.5 2.00 <0.150 01/18/2019 ND 5.76 96.1 6.00	<0.050 0.050 01/18/2019 ND 1.91 95.5 2.00 1.07 <0.150 0.150 01/18/2019 ND 5.76 96.1 6.00 0.964

Surrogate: 4-Bromofluorobenzene (PIL

101%

73 3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2019	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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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Celeg D. Keene -

Celey D. Keene, Lab Director/Quality Manager



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

Fax To:

(575) 745-8905

Received:

01/16/2019

Sampling Date:

01/15/2019

Reported:

01/21/2019

Sampling Type:

Soil

Project Name:

LONE TREE

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - EDDY CO NM

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

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	102 9	% 73,3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Celeg & Keens -



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)

BTEX 8021B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	100 :	% 73.3-12	9						A CONTRACTOR OF THE CONTRACTOR
Chloride, SM4500CI-B	mg,	kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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

Fax To:

(575) 745-8905

Received:

01/16/2019

Reported:

01/21/2019 LONE TREE

Project Number: Project Location:

Project Name:

NONE GIVEN

87.7%

37.6-147

DEVON - EDDY CO NM

Sampling Date:

Sampling Type:

01/15/2019

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg/	/kg	Analyze	d By: ms				***************************************	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2019	ND	215	108	200	2.39	
DRO >C10-C28*	130	10.0	01/18/2019	ND	217	109	200	6.33	
DRO >C10-C28* EXT DRO >C28-C36	130 93.9	10.0 10.0	01/18/2019 01/18/2019	ND ND	217	109	200	6.33	

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Surrogate: 1-Chlorooctadecane

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Celeg & Kenne

Celey D. Keene, Lab Director/Quality Manager



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:

Sampling Type:

Soil

Project Name:

01/21/2019

Sampling Condition:

Cool & Intact

LONE TREE NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Number: Project Location:

DEVON - EDDY CO NM

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 41-142							
Surrogate: 1-Chlorooctadecane	85.49	% 37.6-14	7						

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align Kenne



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:

Sampling Condition:

Cool & Intact

LONE TREE

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - EDDY CO NM

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

BTEX 8021B	mg/	kg	Analyze	d By: ms			Min-		
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 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/17/2019	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	87.19	% 41-142						· · · · · · · · · · · · · · · · · · ·	
Surrogate: 1-Chlorooctadecane	83.2 9	% 37.6-14	7						

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Celeg D. Keene-



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

Fax To:

(575) 745-8905

Received: Reported: 01/16/2019

01/21/2019

Project Name:

LONE TREE

Project Number: Project Location: DEVON - EDDY CO NM

NONE GIVEN

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	Analyze	d 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 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	94.79	% 41-142							
Surrogate: 1-Chlorooctadecane	87.75	% 37.6-14	7						

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aleg & Kenne

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d By: ms				1.6M	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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

Sampling Condition:

Cool & Intact

Project Name:

LONE TREE NONE GIVEN

83.2 %

37.6-147

Sample Received By:

Tamara Oldaker

Project Number: Project Location:

DEVON - EDDY CO NM

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

BTEX 8021B	mg/	kg	Analyze	d By: ms		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTEX	<0.300	0.300	01/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/17/2019	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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							

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Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg & Kenne -



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

Fax To:

(575) 745-8905

Received:

01/16/2019

01/21/2019

Sampling Date:

01/15/2019

Reported: Project Name:

LONE TREE

Sampling Type:

Soil

NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

DEVON - EDDY CO NM

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d By: ms	W-A				
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					

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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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Celeg & Keens



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. Keena



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

Company Name: Taler		BILL TO		ANALYSIS REQUEST	4
Project Manager: (Jay		P.O. #:			
Address: 468 w. 1845		Company: Take	A		
City: Artesia State: Nm	Zip: 88210	Attn:			
Phone #: 62/-6577 Fax #:		Address:			
Project #: Project Owner:	Devan	City:			
Project Name: Love True		State: Zip:			-
Project Location: Fddy Mm		*	f		
Sampler Name: M.C.		Fax 弗		,	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	Z X	<u> </u>	
	iers /ater		PH TE)		
Lab I.D. Sample I.D. H900/50	(G)RAB OR # CONTAINI GROUNDW WASTEWAT SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATI	TIME T		
1 2-6 0	-5	1-15-19	1200 / 1		
25-42	The state of the s		1200		
35-6 4			1200		
5-6			1200		
2 2-5			1200		
5-6			1200		
5-6 12			120		
1-5			1230		
9 5-7 2			1270		
10 5-7 9			1230		
PLEASE WOTE: Lability and Damages. Cardinatis lability and clients exclusive remerty for any stain acting whether based in contract rout, shall the indiced to the amount paid by the client for the property of any stain acting whether based in contract rout, and received by dynatical within 30 days ofter competition of the applicable service. In no event chall Cardinal the lability for incidental or potential damages, including without limitation, business injection, loss of use, or loss of tooks incurred by right, its aubsidiates.	y ciaim arising whether based in contract o cemed waived unless made in writing and r without limitation, business injerruptions, los	r tort, shall de limited to the amount paid received by Cardinal within 30 days after as of Use, or lass of brofils incurred by el	d by the client for the from piction of the applicable		
affiliates of successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such plain is based upon any of the above stated nearons or otherwise. Recinquished By:	Received BV:	based upon any of the above stated rea	t: □ Yes	1	
MM Le 117 -145 A	Tamara	Make	□ Yes	□ No Add'l Fax #:	
Kelinquisned sy: Date: Time:	Received By:				
Delivered By: (Circle One)		IN CHECKED BY:			
Sampler - UPS - Bus - Other: IN TO - 2.10	No No				



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

Company Name: 7	ANALYSIS REQUEST
Project Manager: C. Sovos	H
Address: Address: 408 W. Texos	Company:
86212	Attn:
6977 Fax#	Address:
Project #: Project Owner: Yeven	City:
ame: Love Tree	State: Zip:
de frage	Phone #:
	Fax#:
	PRESERV SAMPLING
RAB OR (C)OMPONTAINERS COUNDWATER ASTEWATER UDGE	
	\
12 5-7 8) /270 ())
15/5-7 /0	/23/
145-7 18	1236
15 5 do 0	80/
10 5-6	75
17 5-8 2	200
	265
0 5-5 6	130
	20 Cast about the fallow for the

analyses. All dalins including those for negligence and any ather cause whatsoever shall be deemed varyed unless made in writing and readword production within 30 days after completion of the applicable service. In the event shall continue be fishly for incidental or consequented damages, including without limitation, business interruptions, loss of true, or loss of profits incurred by client, its subsidiaries, nittlates or successions stilling out of cital-side to the beforements of services hereunder by Continual, longaritiess of whether such claims is brased upon any of the above stated reasons or of the true.

Refininguished By:

| Date: | Date: | Phone Result: |

Relinquished By:	Date:	Received By:	Phone Result:	☐ Yes	N N	Add' Phone #:
	1-16-17		Fax Result:	☐ Yes	□ 8	No Add'! Fax#:
out the	Time: 45 4	Januara What al	REMARKS:			•
Relihquished Sy:	Date:	Received By:				
, 1	Time:					
Delivered By: (Circle One)		n CHE				
Sampler - UPS - Bus - Other: #97	٦.	2 10 Cool nuces: Authoris)		-		
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					



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

Company Name:			ANAI YSIS REGILEST
Project Manager: C 5000		P.O. #:	8
Address: Asker 408 W. Texos		Company:	
City: Attsic State: Nr.	State: 1/1 Zip: 882/2	Attn:	
Phone ボ G アノー G タファ Fax ボ		Address:	
Project #: Project Owner:	Relon	City:	
Project Name: Lone Truc		State: Zip:	
Project Location: Eddy Nm		Phone #:	
Sampler Name: M, C.		Fax 弁:	
FOR LAB USE ONLY	MATRIX	PRESERV, SAMPLING	
	VATER		EX rides
	# CONTA GROUNE WASTEW SOIL OIL SLUDGE	OTHER: ACID/BAG ICE / COO OTHER: DATE TIME	
21 5-11 0		7	
X 5-12 0			

Relinquished By: Time: Received By: amaka Phone Result: Fax Result: REMARKS: □ Yes

□ □ No No

Add'l Phone Add'l Fax #:

Sample Condition CHECKED BY:

Cool Intact
Ches Offes
No No

f Cardinal cannot accept verbal changes. Please fax written changes to (575) 39\$\dagger2326

Sampler-UPS - Bus - Other: #47

Delivered By; (Circle One)