

Remediation and Closure Report

Boundary Raider 6 7 Fed Com 212H API # 30-025-44146, 1RP-5037 Talon Project No. 701337.003.01

Prepared For:

Devon Energy Corporation 6488 Seven Rivers Highway Artesia, NM 88210

Prepared By:

TALON/LPE 408 W. Texas Avenue Artesia, NM 88210

March 25, 2019

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Ms. Christine Hernandez NMOCD District I 1625 French Drive Hobbs, NM 88240

Subject: Remediation and Closure Report Boundary Raider 6 7 Fed Com 212H API # 30-025-44146, 1RP-5037

Dear Ms. Hernandez,

Talon/LPE (Talon) was contracted to perform soil assessment and remediation services at the above-referenced location. The results of our site assessment and remediation activities are contained herein.

Site Information

The Boundary Raider 6 7 Fed Com 212H is located approximately 48 miles east of Carlsbad, New Mexico. The legal location for this release is Unit Letter C, Section 6, Township 23 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are from 32.337631 North and -103.717353 West to 32.340441 North and -103.716795 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Maljamar and Palomas fine sands with 0 to 3 percent slopes. 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 sands and piedmont alluvial deposits. Drainage courses in this area are well drained.

Ground Water and Site Ranking

The New Mexico Office of the State Engineer (NMOSE) database indicates that there is no known groundwater within 3,000 meters of the project work area. The closest groundwater records show groundwater at 639-feet deep approximately 4,743 meters away from the project location. The Chevron/Texaco Water Trend Map indicates the ground water in this area at approximately 275-feet below ground surface (BGS) or greater. The referenced ground water data is presented in Appendix II.

Therefore the ranking for this site at the time of this incident was a **0** based on the following:

Depth to ground water	>100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

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Based upon a site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL's) were, at the time of this incident, 50 mg/kg for BTEX, 10 mg/kg for Benzene and 5,000 mg/kg for TPH. Guidance for Total Chlorides was 600 mg/kg.

Based upon the current NMOCD cleanup criteria listed in Table 1, Closure Criteria for Soils Impacted by a Release, 19.15.29.12 NMAC, remediation targets are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 2,500 mg/kg for TPH and 20,000 mg/kg for Total Chlorides. The site is located in a low potential Karst area and a FEMA flood map indicating the site is not in a known flood plan is attached (Appendix III).

Incident Description and Initial Remedial Actions

On April 17, 2018, Devon had a release occur on the Todd Apache-Tomb Raider Lease Road. The closest Devon well is the Boundary Raider 6 7 Federal Com 212H (API# is 30-025-44146). At approximately 09:30 am, Devon was preparing to blade and repair the lease road in this area and requested a load of fresh water to be delivered. The Devon representative on site noticed that the discharged water was discolored. Upon contacting the trucking company regarding the water color it was determined that they were hauling a load of gray water rather than fresh water. Approximately 130 barrels of gray water were used on the road. No fluids were able to be recovered. The driver started unloading the gray water at GPS coordinates 32.337631 North and -103.717353 West. The ending coordinates were 32.340441 North and -103.716795 West. This incident measures approximately 4/10 of a mile following the Todd Apache – Tomb Raider Lease Road, generally trending north-south, onto a Devon pipeline corridor and then westward pooling on the E Livingston 31 Federal #7 location (belonging to Regeneration Energy) before terminating. Several site maps illustrating the areas impacted by this spill are presented in Appendix I.

On April 18, 2018, Talon mobilized personnel to begin site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to varying depths ranging from surface to 4-feet deep. Refusal was encountered at 9 of 13 sample locations from 1.0-2.5 feet (BGS). Talon subsequently mobilized a backhoe and additional personnel to obtain samples at greater depths. See Appendix V for a complete report of laboratory results. The results are summarized in Table 1.

The work plan was subsequently approved by NMOCD District 1. Standard Energy assumed responsibility for the cleanup.

Sample	Depth	BTEX	Chlorides	TPH	TPH	TPH	Total
ID	(feet)	(mg/kg)	(mg/kg)	GRO	DRO	MRO	TPH
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BG	0.0	<0.300	80	<10	<10	<10	<10
	1.0	< 0.300	16	<10	<10	<10	<10
	2.0		64				
Refusal	2.5		48				
S-1	0.0	<0.300	12300	<10	47.5	<10	47.5
	1.0	< 0.300	144	<10	<10	<10	<10
	2.0		816				
	3.0		304				
	4.0		736				
	5.0		32				
	7.0		64				
					11-23-22		
S-2	0.0	<0.300	12200	<10	34.8	<10	34.8
	0.5	<0.300	2640	<10	<10	<10	<10
	1.0		368				
Refusal	2.0		48				
S-3	0.0	<0.300	43200	<10	<10	<10	<10
	1.0	<0.300	752	<10	<10	<10	<10
	2.0		368				
	3.0		2120				
	5.0		64				
	7.0		80				
					1 and 1	5. V. Brid S. 1	
S-4	0.0	<0.300	16000	<10	<10	<10	<10
	1.0	<0.300	96	<10	<10	<10	<10
Refusal	2.0	<0.300	80	<10	<10	<10	<10
				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
S-5	0.0	2.33	22000	<10	12.7	<10	12.7
	0.5	<0.300	4480	<10	<10	<10	<10
	1.0	<0.300	2400	<10	<10	<10	<10
	2.0		32.0				
					<u> </u>		
S-6	0.0	3.75	60800	<10	12.5	<10	12.5
	0.5	<0.300	12000	<10	<10	<10	<10

Table 1: Work Plan Soil Analysis

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Sample	Depth	BTEX	Chlorides	TPH	TPH	TPH	Total
ID	(feet)	(mg/kg)	(mg/kg)	GRO	DRO	MRO	TPH
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
S-6	1.0		208				-
	2.0		432				
	3.0		400				
	4.0		800				
S-7	0.0	< 0.300	11600	<10	<10	<10	<10
	1.0	< 0.300	4960	<10	<10	<10	<10
	2.0		192				
	3.0		80				
	4.0		720				
	5.0		<16				
S-8	0.0	< 0.300	176	<10	<10	<10	<10
Refusal	1.0	<0.300	48	<10	<10	<10	<10
S-9	0.0	<0.300	19600	<10	<10	<10	<10
	1.0	<0.300	8160	<10	<10	<10	<10
	2.0		640				
Refusal	3.0		352				
						hi ikej 🖓	
S-10	0.0	<0.300	18200	<10	<10	<10	<10
	1.0	<0.300	10800	<10	<10	<10	<10
	1.5		8200				
	2.0		4000				
	3.0		64				
	5.0		64				
S-11	0.0	< 0.300	9800	<10	<10	<10	<10
	1.0	<0.300	144	<10	<10	<10	<10
	2.0		80				
	3.0		64				
	4.0		80				
S-12	0.0	<0.300	11800	<10	<10	<10	<10
	1.0	<0.300	8400	<10	<10	<10	<10
	2.0		416				
	3.0		304				
	4.0		128				
S-13	0.0	<0.300	20000	<10	16.9	<10	16.9
	0.5	<0.300	11400	<10	<10	<10	<10

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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-13	1.0		64				
	3.0		48				
	5.0		32				

--Analyte Not Tested

Remediation activities were carried out with diligence and extreme care due to safety concerns while excavating an active lease road and pipeline right of ways. Traffic control measures were utilized including barrels, cones and flagmen. Often portions of the lease road had to be backfilled while work was in progress to ensure traffic could flow within the work area. Field titrations for chlorides were used to guide the excavation and backfill activities.

Table 2: Remediation Soil Analysis

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO	TPH DRO	TPH MRO	Total TPH
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
S-6	4.0		32.0				
	5.0		<16.0				
	6.0		48.0				
	8.0		48.0				
	10.0		96.0				
	E.SW		176				
	W.SW		176				
S-14	0-1		<16.0				
S-15	0-1		<16.0				
S-16	0-1		80.0				
S-17	0-1		64.0				
S-18	1.5		288				
1.26	1.2.5						
S-19	0-1		224				
<u> </u>	155214					a sure the sure	
S-20	0.5		384				
S-21	0.5		<16.0				

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Sample	Depth	BTEX	Chlorides	TPH	TPH	P a g	Total
ID	(feet)	(mg/kg)	(mg/kg)	GRO	DRO	MRO	TPH
	(1001)	(ing/kg)	(inging)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
S-22	0.5		16.0				
							9-167 F
S-23	2.0		<16.0				
S-24	0-1		32.0				
S-25	0-1		32.0				
S-26	0-1		16.0				
S-27	2.5		<16.0				
S-28	0-1		96.0				
S-29	1.0		80.0				
S-30	0.0		96.0				
S-31	0.0		80.0				
	1.0		80.0				
S-32	0.0	<0.300	880	<10.0	<10.0	<10.0	<10.0
	1.0		80.0				
S-33	0.5	<0.300	64.0	<10.0	<10.0	<10.0	<10.0
	1.0	< 0.300	32.0	<10.0	<10.0	<10.0	<10.0
	2.0	<0.300	16.0	<10.0	<10.0	<10.0	<10.0
S-34	0-1	<0.300	224	<10.0	<10.0	<10.0	<10.0
S-35	1.0		208				
0.00	0.1		22.2				
S-36	0-1		80.0				
S-37	0-1		64.0				
S-38	0.5		240				
S-39	0-1		144		<u></u>		
S-40	0-1		64.0				

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Sample	Depth	BTEX	Chlorides	TPH	TPH	TPH	Total
ID	(feet)	(mg/kg)	(mg/kg)	GRO	DRO	MRO	TPH
	(1000)	(((mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
S-41	1.0		1070				
S-41A	1.5		1020				
S-41A	2.0		224				
S-41A	3.0		80				
		in the state					
S-42	0-1		112				-
				(S. 1925)		19-173-748 ⁻¹	
S-43	1.0		1410				
S-43A	2.0		128				
S-44	1.5	<0.300	48.0	<10.0	18.3	<10.0	18.3
S-45	1.5	<0.300	32.0	<10.0	<10.0	<10.0	<10.0
0.40	4 5	10,000	20.0	-10.0	110.0	-10.0	110.0
S-46	1.5	<0.300	32.0	<10.0	<10.0	<10.0	<10.0
C 47	1 5		49.0		the state of the state		
S-47	1.5		48.0				
S-48	1.5		112				
3-40	1.5		112				
S-49	1.5		48.0				
0-40	1.0		40.0			10.00000.000	
S-50	2.5		16.0				
						Statistics of the second	
S-51	2.5		48.0				
					10 A 24-4		
S-52	1.5		144				
			and a second second				
S-53	3.5		48.0				
S-54	3.5		32.0				
S-55	3.5		32.0				
S-56	2.0		<16.0				
S-57	2.0		32.0				
0.50	0.0		20.0				
S-58	2.0		32.0				

SW-Sidewall Sample, --Analyte Not Tested

Remedial Actions

- Field titrations for total chlorides were used to direct excavation activities within the impacted area. The various depths to which the contaminated soil was removed are illustrated on the site plans in Appendix I.
- Traffic control measures were utilized to ensure the safety of field personnel. Remediation activities were deliberate, time-consuming and carried out with diligence and extreme care due to safety concerns while excavating an active lease road and pipeline right of ways.
- Confirmation samples were obtained from the sidewalls and bottoms of the excavated areas to verify that all contaminants above closure criteria had been removed. The results are highlighted on Table 2 and the entire lab reports may be found in Appendix V.
- Pipeline right of ways were hand-excavated to prevent infrastructure damage.
- The excavated areas were backfilled to grade using new caliche. The lease road and locations were then watered, compacted and contoured to match the surrounding area.
- All of the excavated material was transported to Lea Land LLC, a NMOCD approved solid waste disposal facility.
- A Final C-141 formally documenting remedial actions is attached in Appendix IV.

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Closure

On behalf of the Devon Energy Corporation and Standard Energy, we respectfully request that no further actions be required and that closure with regard to this incident be granted.

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

mdi

Brandon Sinclair Environmental Scientist

David J. Adkins District Manager

Attachments

Appendix ISite PlansAppendix IIGroundwater Data & Soil SurveyAppendix IIIFEMA Flood MapAppendix IVInitial and Final C-141Appendix VLaboratory Reports

APPENDIX I

SITE PLANS

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APPENDIX II

GROUNDWATER DATA SOIL SURVEY

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New Mexico Office of the State Engineer Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters): Easting (X): 620712 Northing (Y): 3578582.751

Radius: 3000

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warrantiles, expressed or implied, concerning the accuracy, completeness, reliability, usabilit or suitability for any particular purpose of the data. 7/10/19 1:34 PM

WELLS WITH WELL LOG INFORMATION

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(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right	(R=PO been re O=orph C=the t closed)	eplaced, naned, lile is	(quar	ters are 1= (quarters					(NAD83	3 UTM in r	neters)			(in fe	eet)		
POD Number C 03152	Code	POD Subbasin CUB	County ED	Source Shallow		4 Sec			X 618250	3580606	Y • 🥥	Distance Start Date 3186 06/01/2005	Finish Dat 06/07/2005	Log File e Date 06/10/2005	Depth Well 938	Depth Water	Driller BROCKMAN, BERNARD J.	License Number 1184
<u>C 02939</u>		С	LE		33	1 19	22S	32E	620234	3583042		4484 02/09/2003	02/13/2003	03/17/2003	280			1348
C 03749 POD1		CUB	LE	Shallow	34	4 07	23S	32E	616974	357566	2 🜍	4743 07/10/2014	08/06/2014	09/11/2014	865	639	RANDY STEWART	331
Record Count: 3 UTMNAD83 Rad Easting (X): 6	- water	rch (in met		Northing	g (Y):	3578	582.7	51		Radiu	s: 50	00						
*UTM location was deriv The data is furnished by or suitability for any partic	the NMO	SE/ISC and	is accepte	ed by the r	recipier	it with	the exp	pressed u	Inderstand	ing that th	e OSE	/ISC make no warrantie	s, expressed	or implied, cor	ncerning	the acci	uracy, completeness, reliabili	y, usabilit
7/10/19 1:29 PM															1	VELLS	WITH WELL LOG INFOR	MATION



Lea County, New Mexico

MF-Maljamar and palomas fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: dmqb Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Palomas and similar soils: 45 percent
Maljamar and similar soils: 45 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Palomas

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand Bt - 16 to 60 inches: sandy clay loam Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 3 percent Depth to restrictive feature: More than 80 inches Natural drainage class: Well drained Runoff class: Low Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Calcium carbonate, maximum in profile: 45 percent Gypsum, maximum in profile: 1 percent Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0 Available water storage in profile: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

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

Description of Maljamar

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand Bt - 24 to 50 inches: sandy clay loam Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 5 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 2.0
Available water storage in profile: Low (about 5.6 inches)

Interpretive groups

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

Minor Components

Kermit

Percent of map unit: 5 percent Ecological site: Sandhills (R042XC022NM) Hydric soil rating: No

Wink

Percent of map unit: 5 percent *Ecological site:* Loamy Sand (R042XC003NM)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 15, Sep 12, 2018

APPENDIX III

FEMA FLOOD MAP

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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.

Rating Curve

A curve showing the relationship between depth of flow and the discharge of a stream at a given location.

Scale

A representative fraction of map distance to ground distance. Example: 1:12,000 is the representative fraction in which one unit of measure on the map is equal to 12,000 of the same units of measure on the ground. Federal Emergency Management Agency map scales are expressed in a ratio of map distance equal to a given number of feet on the ground.

Special Flood Hazard Area (SFHA)

Area inundated by the base (1-percent annual chance) flood, identified on the Flood Insurance Rate Map as Zones A, AE, AH, AO, AR, V, VE, or A99.

Step-Backwater Analysis

Method used in Quick-2 (and other modeling programs) to analyze multiple cross-sections. Water-surface elevations are determined for all sections based on a given discharge. The initial water-surface elevation is automatically determined by the normal depth method or by a direct input of a water-surface elevation or depth.

Water-Surface Elevation

The height, in relation to the National Geodetic Vertical Datum of 1929 (or other datum, where specified) of floods of various magnitudes and frequencies in the identified floodplains of coastal or riverine areas.

ZONE A

The flood insurance rate zone that corresponds to the 100-year floodplains that is determined in the Flood Insurance Study by approximate methods. Because detailed hydraulic analyses are not performed for such areas, no Base Flood Elevations or depths are shown within this zone. Mandatory flood insurance purchase requirements apply.

Zone A99

The flood insurance rate zone that corresponds to areas of the 100-year floodplains that will be protected by a Federal flood protection system where construction has reached specified statutory milestones. No Base Flood Elevations or depths are shown within this zone. Mandatory flood insurance purchase requirements apply.

Zone AE and A1-A30

The flood insurance rate zone that corresponds to the 100-year floodplains that is determined in the Flood Insurance Study by detailed methods. In most instances, Base Flood Elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone. Mandatory flood insurance purchase requirements apply.

Zone AH

The flood insurance rate zone that corresponds to the areas of the 100year shallow flooding with a constant water-surface elevation (usually areas of ponding) where average depths are between 1 and 3 feet. The Base Flood Elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone. Mandatory flood insurance purchase requirements apply.

Zone AO

The flood insurance rate zone that corresponds to the areas of 100-year shallow flooding (usually sheet flow on sloping terrain) where average depths are between 1 and 3 feet. The depth should be averaged along the cross section and then along the direction of flow to determine the extent of the zone. Average flood depths derived from the detailed hydraulic analyses are shown within this zone. In addition, alluvial fan flood hazards are shown as Zone AO on the Flood Insurance Rate Map. Mandatory flood insurance purchase requirements apply.

Zone AR

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The flood insurance rate zone that results from the decertification of a previously accepted flood protection system that is being restored to provide protection from the 100-year or greater flood event.

APPENDIX IV

INITIAL C-141

FINAL C-141

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division

Submit 1 Copy to appropriate District Office in

District IV 1220 S. St. Fran	ncis Dr., Sant	ta Fe, NM 8750	5			h St. Franc e, NM 875	1000 AUT 40 A	,	accordance w	IIII 19.15.29 NMAC.	
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Name of Co	ompany D	Devon Energy	v Product	ion Company		Contact Bro		🛛 Ini	tial Report	Final Repor	
Address 64	188 Seven	Rivers Hwy	Artesia	NM 88210			No. 575-748-33	71			
Facility Nat	me Bound	ary Raider 6	7 Fed Co	om 212H (Todd		Facility Typ		71			
		Lease Road				r donney i yr	0001				
g ()	D 1	1									
Surface Ow	mer Federa	al		Mineral (Owner I	Federal		API N	o. 30-025-4	4146	
				LOC	ATIO	N OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/West Line	County		
С	06	235	32E							Lea	
			Latitude_	32.337631		Longitude_	103.717353	NAD83			
				NAT	FURE	OF REL	EASE				
Type of Rele						Volume of	Release 130 bbls	volume	Recovered 0	bbls	
Source of Re	elease Water	Truck					Iour of Occurrence	e Date and	Hour of Dise	covery	
117 1.	1 NT 1' (7. 0					018 9:30 AM MS	ST April 17	, 2018 9:30 A	M MST	
Was Immedia	ate Notice (Var [• •	If YES, To					
] No 🗌 Not R	equired	NMOCD-0					
By Whom? N	Mike Shoem	aker EHS Pro	fessional			BLM-Shel Date and H					
,			1000101101				018 9:02 AM MS	ST.			
Was a Water	course Read	ched?				If YES, Volume Impacting the Watercourse.					
			Yes 🛛	No		N/A					
If a Watercou	urse was Im	pacted, Descr	ibe Fully.*	¢			RECEI	/FD			
N/A		, ,	· · · · · · · · · · · · · · · · · · ·				and summer the second second				
		em and Reme					By Olivia	a yu at 7:2	6 am, M	ay 02, 2018	
snowed up an company was following coo stopped. From down the leas	nd unloaded s approache ordinates ar m the endpo se road near	d it was detern d it was detern e the beginnin pint the releas it. The E Liv	then the D mined that g point (L ed water d vingston 3	evon representati they were haulin at 32.337631, Lo id spread down th	ve reviev ng a load ong 103.7 he Devor / operate	wed the water of grey water (17353) and t n pipeline cor d by Regener	that was applied rather than fresh he end point (Lat ridor, across a po ation Energy Cor	be delivered to the there was discolo water and had ap 32.340441, Long rtion of the E Livi p. and the incident	ration and wh plied the load 103.716795)	en the trucking of grey water. The where unloading	
Departing Area	o Affortad	and Classics		ψ							
Approximatel	a Anecied a	and Cleanup A	was appli	ed to the lesse ro	ad and O	hble ware rec	www.	ronmental contrac	111 1 ····		
with delineati	ion and rem	ediation effor	ts beginnin	ng the following	dav.	UDIS WEIE IEU	overed. All envir	commental contrac	tor will be con	ntacted to assist	
regulations al	1 operators	are required to	o report an	d/or file certain r	elease no	otifications ar	nd perform correc	nderstand that pur tive actions for rel	eaces which a	nav endenger	
bublic health	or the envir	onment. The	acceptanc	e of a C-141 repo	ort by the	NMOCD m	arked as "Final Ro	eport" does not rel	ieve the operation	ator of liability	
or the environ	ment In a	ddition NMO	CD accept	investigate and r	remediate	e contaminatio	on that pose a three	eat to ground wate	r, surface wat	er, human health	
ederal, state.	or local lav	vs and/or regu	lations	unce of a C-141	report do	Jes not relieve	= the operator of 1	esponsibility for c	compliance wi	ith any other	
,,							OIL CONG	SED VATION	DIVIGIO	NT	
Signature: N	1íchael S	hoemaker					<u>OIL CON</u>	SERVATION	DIA1210	<u>1N</u>	
								a.	-		
Printed Name	e: Michael S	Shoemaker				Approved by	Environmental Sp	pecialist:			
							5/2/2018				
fitle: Enviro	nmental Pro	otessional			1	Approval Date	e:	Expiration	Date:		
E-mail Addre	ss: mike sh	oemaker@dvr	1 com			onditions of	A mmo1.			1	
- man mullo		oomaxor(aguvi				Conditions of			Attached		
Date: 05/01/1				5.748.3371	S	see attach	ned directive	•		V	
ttach Addit	ional Shee	ts If Necessa		-							
					F	1DD 5025		1812226987		1810007510	

1RP-5037

nOY1812226987

Form C-141 Revised April 3, 2017

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Oil Conservation Division

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

District IV 1220 S. St. Frar		a Fe, NM 87410	5			th St. Franc Fe, NM 875			ac		IUI 19,1.	.27 NMAC.
			Rel	······			orrective A	ctio	n	an ann an tar an ta		
						OPERA'				al Report	\boxtimes	Final Repor
Name of Co	ompany D	evon Energy	Product	ion Company			nanda Davis		Lanut	I		F
		Rivers Hwy				Telephone	No. 575-748-01	76				
Facility Nat	me Bound	lary Raider 6	7 Fed C	om 212H		Facility Typ	be Oil					
Surface Ow	ner Federa	al		Mineral (Owner	Federal			API No	. 30-025-4	4146	
				LOC	ATIC	ON OF RE	LEASE					
Unit Letter C	Section 6	Township 23S	Range 32E	Feet from the		h/South Line	Feet from the	East	/West Line	County	Lea	
			Latitu	ide <u>32.337631</u>		_	103.717353 W	NAD	83			
				NAT	ΓURI	E OF REL			·····			
Type of Rele Source of Re							Release 130 bbls			Recovered 0		
Source of Re	elease water	rTruck					Hour of Occurrenc 2018 9:30 PM MS			Hour of Dis 2018 9:30 I		
Was Immedi	ate Notice (If YES, To	Whom?	-	<u>, , , , , , , , , , , , , , , , , , , </u>			
		\boxtimes	Yes [] No 🗌 Not R	equired							
Dy Whom?	Aika Shoan	naker- EHS Pr	ofessiona	1		BLM-She	ly Tucker Iour April 18, 20	18 0.0	12 414			
Was a Water			0165510114	1			olume Impacting t					
			Yes 🛛	No		N/A	1 0					
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	* N/A								
road instead 32.340441, The flow pa	l of fresh v -103.71679 ath encomp thern porti	water. No flu 95 W. passed appro on of the E I	ids were ximately	recovered. The 4/10 of a mile of	begini	ning point co Todd Apache	oplied approxim ordinates are 32. -Tomb Raider L attached. Talon.	.3376	31 N and -1 Road, a Dev	03.717353 von Energy	3W and y pipelii	ending at ne corridor
A site assess	ment was co		ork plan w	vas generated and			ed by the NMOCI ther actions be rec					
regulations a public health should their or the enviro	Il operators or the envi operations h nment. In a	are required t ronment. The nave failed to	o report a acceptan adequately DCD accept	nd/or file certain ce of a C-141 rep v investigate and p	release ort by t remedi	notifications a the NMOCD m ate contaminat	knowledge and u nd perform correc aarked as "Final R ion that pose a thr ve the operator of	ctive ad eport" eat to respon	ctions for rel does not rel ground waten sibility for c	eases which ieve the ope r, surface w ompliance y	a may end erator of ater, hun with any	danger liability nan health
		, 	•				OIL CON	SER	VATION	DIVISIO	<u>NC</u>	
Signature: Printed Nam	e: David J.	Adkins, Ager	nt			Approved by	Environmental S	peciali	ist: Brai	dford	Bill	lings
Title: Distri	ct Manager,	Talon/LPE				Approval Da	te: 09/14/202	1	Expiration	Date:		
E-mail Addr	ess: dadkin	s@talonlpe.co	om			Conditions o	f Approval:			Attached	1	
Date: 4/05/2				575-441-4835								
Attach Add	itional She	ets If Necess	sary			n	OY181222698	37				

APPENDIX V

LABORATORY RESULTS

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April 20, 2018

KIMBERLY WILSON TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: TODD APACHE- TOMB RAIDER LEASE RD

Enclosed are the results of analyses for samples received by the laboratory on 04/19/18 9:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene Lab Director/Quality Manager

Page 1 of 47


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

Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: BG - 0.0 (H801082-01)

BTEX 8021B	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2.16	108	2,00	0.805	
Total Xylenes*	<0,150	0.150	04/19/2018	ND	6.31	105	6,00	1.00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 72-148					- ·		
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	04/19/2018	ND	448	112	400	3.64	
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	04/19/2018	ND	219	110	200	1.90	
DRO >C10-C28*	<10.0	10.0	04/19/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/19/2018	ND					
Surrogate: 1-Chlorooctane	92.5 \$	% 41-142							
Surrogate: 1-Chlorooctadecane	91.5 9	% 37.6-147	7						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: BG - 1.0 (H801082-02)

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	04/19/2018	ND	2,03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	6.31	105	6,00	1,00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 %	6 72-148							
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	04/19/2018	ND	448	112	400	3.64	
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	04/19/2018	ND	219	110	200	1.90	
DRO >C10-C28*	<10.0	10.0	04/19/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/19/2018	ND					
Surrogate: 1-Chlorooctane	95.0 9	% 41-142							
Surrogate: 1-Chlorooctadecane	95.2 9	% 37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: BG - 2.0 (H801082-03)

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	04/19/2018	ND	448	112	400	3.64	

Sample ID: BG - 2.5 R (H801082-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC			Aurice concerns and an and		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/19/2018	ND	448	112	400	3.64	

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 1 0.0 (H801082-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2,16	108	2.00	0.805	
Total Xylenes*	<0.150	0,150	04/19/2018	ND	6.31	105	6.00	1.00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117 %	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12300	16.0	04/19/2018	ND	448	112	400	3.64	
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	04/20/2018	ND	219	110	200	1.90	
DRO >C10-C28*	47.5	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	99.9	% 41-142							
Surrogate: 1-Chlorooctadecane	102 9	% 37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 1 1.0 (H801082-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS			an and a star of the star of the star		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	6.31	105	6.00	1,00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/19/2018	ND	448	112	400	3.64	
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	04/20/2018	ND	219	110	200	1.90	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	98.09	% 41-142							
Surrogate: 1-Chlorooctadecane	96.9 %	37.6-14	7						

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

Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RE	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 1 2.0 (H801082-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	04/19/2018	ND	448	112	400	3.64	

Sample ID: S - 1 3.0 (H801082-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/19/2018	ND	448	112	400	3.64	

Sample ID: S - 1 4.0 (H801082-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	04/19/2018	ND	448	112	400	3.64	

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

Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RE	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 2 0.0 (H801082-10)

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	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	0.051	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	6.31	105	6,00	1.00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118 9	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	04/19/2018	ND	448	112	400	3.64	
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	04/20/2018	ND	219	110	200	1.90	
DRO >C10-C28*	34.8	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	94.0	% 41-142							
Surrogate: 1-Chlorooctadecane	95.6	% 37.6-14	7						

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

Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 2 0.5 (H801082-11)

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	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	6,31	105	6.00	1.00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 %	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	04/19/2018	ND	448	112	400	3.64	
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	04/20/2018	ND	219	110	200	1.90	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	96.0	% 41-142	2						
Surrogate: 1-Chlorooctadecane	95.2	% 37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 2 1.0 (H801082-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	04/19/2018	ND	448	112	400	3.64	

Sample ID: S - 2 2.0 R (H801082-13)

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	04/19/2018	ND	432	108	400	0.00	

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04/19/2018	Sampling Date:	04/18/2018
04/20/2018	Sampling Type:	Soil
TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
700794.268.01	Sample Received By:	Tamara Oldaker
DEVON - EDDY CO NM		
	04/20/2018 TODD APACHE- TOMB RAIDER LEASE RI 700794.268.01	04/20/2018Sampling Type:TODD APACHE- TOMB RAIDER LEASE RISampling Condition:700794.268.01Sample Received By:

Sample ID: S - 3 0.0 (H801082-14)

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	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	0.061	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
Total Xylenes*	0.230	0.150	04/19/2018	ND	6,31	105	6.00	1.00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 %	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	43200	16.0	04/19/2018	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	04/20/2018	ND	219	110	200	1.90	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	99.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.8	% 37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RE	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 3 1.0 (H801082-15)

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	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2.16	108	2.00	0,805	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	6.31	105	6.00	1.00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 %	6 72-148						<u></u>	
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	04/19/2018	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	04/20/2018	ND	219	110	200	1,90	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	99.9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	98.4	37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 3 2.0 R (H801082-16)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	. 16.0	04/19/2018	ND	432	108	400	0.00	

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM	•	

Sample ID: S - 4 0.0 (H801082-17)

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	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	6,31	105	6.00	1.00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	6 72-148	•						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	04/19/2018	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	04/20/2018	ND	219	110	200	1.90	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	90.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	83.2	% 37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 4 1.0 (H801082-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS				2-00-00-00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	6.31	105	6,00	1.00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 %	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/19/2018	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	04/20/2018	ND	219	110	200	1.90	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	85.3	% 41-142							
Surrogate: 1-Chlorooctadecane	80.3	37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 4 2.0 R (H801082-19)

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	04/19/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 5 0.0 (H801082-20)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					·····
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	0.276	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	0.484	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
Total Xylenes*	1.57	0.150	04/19/2018	ND	6.31	105	6.00	1.00	
Total BTEX	2.33	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	137 %	6 72-148) 						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	04/19/2018	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	04/20/2018	ND	219	110	200	1,90	
DRO >C10-C28*	12.7	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	102 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	100 %	6 37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 5 0.5 (H801082-21)

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	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2.16	108	2,00	0,805	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	6.31	105	6.00	1.00	
Total BTEX	<0,300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 %	6 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	04/19/2018	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	04/20/2018	ND	219	110	200	1.90	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	209	105	200	1,54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	91.6	% 41-142	2						
Surrogate: 1-Chlorooctadecane	88.1	% 37.6-14	7						

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

Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Numbor:	700704 268 01	Sampla Descrived By:	Tamara Oldakor
Project Number: Project Location:	700794.268.01 DEVON - EDDY CO NM	Sample Received By:	Tamara Oldaker

Sample ID: S - 5 1.0 R (H801082-22)

Chloride, SM4500Cl-B mg/kg			Analyzed By: AC					······	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	04/19/2018	ND	432	108	400	0.00	

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 6 0.0 (H801082-23)

BTEX 8021B	mg,	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.064	0.050	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	0.437	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	0.765	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
Total Xylenes*	2.48	0,150	04/19/2018	ND	6,31	105	6.00	1.00	
Total BTEX	3.75	0.300	04/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 147 % 72-148

92.3 %

37.6-147

Chloride, SM4500Cl-B	mg,	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	60800	16.0	04/19/2018	ND	432	108	400	0.00	
трн 8015м	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2018	ND	219	110	200	1.90	
DRO >C10-C28*	12.5	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	94.1	% 41-142	}						

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Surrogate: 1-Chlorooctadecane

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Şoil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 6 0.5 (H801082-24)

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	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
Total Xylenes*	<0,150	0.150	04/19/2018	ND	6.31	105	6.00	1.00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	04/19/2018	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	04/20/2018	ND	219	110	200	1.90	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	89.5	% 41-142					-		
Surrogate: 1-Chlorooctadecane	85.8	% 37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 6 1.0 (H801082-25)

Chloride, SM4500Cl-B mg/kg		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/19/2018	ND	432	108	400	0.00	

Sample ID: S - 6 2.0 (H801082-26)

Chloride, SM4500Cl-B mg/kg		/kg	Analyzed By: AC					·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/19/2018	ND	432	108	400	0.00	

Sample ID: S - 6 3.0 (H801082-27)

Chloride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/19/2018	ND	432	108	400	0.00	

Sample ID: S - 6 4.0 (H801082-28)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	04/19/2018	ND	432	108	400	0.00	

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 7 0.0 (H801082-29)

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	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2.16	108	2,00	0.805	
Total Xylenes*	<0.150	0,150	04/19/2018	ND	6.31	105	6.00	1.00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 %	6 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	04/19/2018	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	04/20/2018	ND	219	110	200	1.90	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	92.4	% 41-142							
Surrogate: 1-Chlorooctadecane	88.6	% 37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 7 1.0 (H801082-30)

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	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
Total Xylenes*	<0,150	0.150	04/19/2018	ND	6.31	105	6.00	1.00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	6 72-148	•						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	04/19/2018	ND	432	108	400	0.00	
ТРН 8015М	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	04/20/2018	ND	219	110	200	1,90	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	100 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	95.6	% 37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 7 2.0 (H801082-31)

Chloride, SM4500Cl-B mg/kg			Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/19/2018	ND	432	108	400	0.00	

Sample ID: S - 7 3.0 (H801082-32)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					<u></u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/19/2018	ND	432	108	400	0.00	

Sample ID: S - 7 4.0 (H801082-33)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	04/19/2018	ND	416	104	400	3.77	1

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 8 0.0 (H801082-34)

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	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	6.31	105	6.00	1.00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 9	% 72-148	,						
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	04/19/2018	ND	416	104	400	3.77	
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	04/20/2018	ND	219	110	200	1,90	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	71.8	% 41-142							
Surrogate: 1-Chlorooctadecane	68.4	% 37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794,268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 8 1.0 R (H801082-35)

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	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2,16	108	2,00	0.805	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	6.31	105	6.00	1.00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	6 72-148							
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	04/19/2018	ND	416	104	400	3.77	
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	04/20/2018	ND	219	110	200	1.90	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	94.9	% 41-142)						
Surrogate: 1-Chlorooctadecane	90.4	% 37.6-14	7						

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

Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 9 0.0 (H801082-36)

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	04/19/2018	ND	2,03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	6,31	105	6.00	1.00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 %	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC			······		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	04/19/2018	ND	416	104	400	3.77	
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	04/20/2018	ND	219	110	200	1.90	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	97.2 9	6 41-142	1						
Surrogate: 1-Chlorooctadecane	93.5 9	6 37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 9 1.0 (H801082-37)

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	04/19/2018	ND	2.03	102	2.00	0.541	
Toluene*	<0.050	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	6.31	105	6.00	1.00	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 %	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8160	16.0	04/19/2018	ND	416	104	400	3.77	
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	04/20/2018	ND	219	110	200	1.90	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	209	105	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	97.0 %	6 41-142							
Surrogate: 1-Chlorooctadecane	94.5 %	6 37.6-14							

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794,268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 9 2.0 (H801082-38)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	04/19/2018	ND	416	104	400	3.77	

Sample ID: S - 9 3.0 R (H801082-39)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC			- As		<u>_</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/19/2018	ND	416	104	400	3.77	

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794,268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 10 0.0 (H801082-40)

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	04/19/2018	ND	2.07	103	2.00	1.15	
Toluene*	<0.050	0.050	04/19/2018	ND	2.03	102	2.00	0.387	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	1.95	97,3	2.00	1.72	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	5.89	98.2	6.00	1.57	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.3 9	% 72-148	1						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18200	16.0	04/19/2018	ND	416	104	400	3.77	
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	04/20/2018	ND	227	113	200	4.18	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	232	116	200	2,75	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	92.1 9	% 41-142	1						
Surrogate: 1-Chlorooctadecane	87.9 9	% 37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 10 1.0 (H801082-41)

Chloride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AC				مىلىقىت مىسىقۇمىلىدىسى		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	04/19/2018	ND	416	104	400	3.77	

Sample ID: S - 10 1.5 (H801082-42)

Chloride, SM4500Cl-B mg/kg		Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8200	16.0	04/19/2018	ND	416	104	400	3.77	

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 11 0.0 (H801082-43)

BTEX 8021B	mg/	kg	Analyze	d By: MS		ninite Clifford and the Constraint of the state of the state			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2018	ND	2.07	103	2.00	1.15	
Toluene*	<0.050	0.050	04/19/2018	ND	2.03	102	2.00	0.387	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	1,95	97.3	2.00	1.72	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	5.89	98.2	6.00	1.57	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.8 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	04/19/2018	ND	416	104	400	3.77	
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	04/20/2018	ND	227	113	200	4,18	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	232	116	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	96.5	% 41-142							
Surrogate: 1-Chlorooctadecane	91.9	% 37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 11 1.0 (H801082-44)

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	04/19/2018	ND	2.07	103	2.00	1.15	
Toluene*	<0.050	0.050	04/19/2018	ND	2.03	102	2.00	0.387	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	1.95	97.3	2.00	1.72	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	5.89	98.2	6.00	1,57	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.7 9	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/19/2018	ND	416	104	400	3.77	
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	04/20/2018	ND	227	113	200	4.18	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	232	116	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	93.8 9	6 41-142							
Surrogate: 1-Chlorooctadecane	92.0 9	37.6-14	7						

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04/19/2018	Sampling Date:	04/18/2018
04/20/2018	Sampling Type:	Soil
TODD APACHE- TOMB RAIDER LEASE RE	Sampling Condition:	Cool & Intact
700794.268.01	Sample Received By:	Tamara Oldaker
DEVON - EDDY CO NM		
	04/20/2018 TODD APACHE- TOMB RAIDER LEASE RE 700794.268.01	04/20/2018Sampling Type:TODD APACHE- TOMB RAIDER LEASE RESampling Condition:700794.268.01Sample Received By:

Sample ID: S - 11 2.0 (H801082-45)

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	04/19/2018	ND	416	104	400	3.77	

Sample ID: S - 11 3.0 (H801082-46)

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	04/19/2018	ND	416	104	400	3.77	

Sample ID: S - 11 4.0 (H801082-47)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/19/2018	ND	416	104	400	3.77	

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 12 0.0 (H801082-48)

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	04/19/2018	ND	2.07	103	2.00	1.15	
Toluene*	<0.050	0.050	04/19/2018	ND	2.03	102	2.00	0.387	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	1.95	97.3	2.00	1.72	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	5.89	98.2	6.00	1.57	
Total BTEX	<0,300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.3 9	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	04/19/2018	ND	416	104	400	3.77	
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	04/20/2018	ND	227	113	200	4.18	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	232	116	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	89.2	% 41-142							<u></u>
Surrogate: 1-Chlorooctadecane	84.5	37.6-14	7						

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 12 1.0 (H801082-49)

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	04/19/2018	ND	2.07	103	2.00	1.15	
Toluene*	<0.050	0.050	04/19/2018	ND	2.03	102	2.00	0.387	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	1.95	97.3	2.00	1.72	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	5.89	98.2	6.00	1.57	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.5 9	6 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	04/19/2018	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2018	, ND	227	113	200	4,18	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	232	116	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	98.1 9	6 41-142							
Surrogate: 1-Chlorooctadecane	94.3 9	6 37.6-14	7						

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

Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 12 2.0 (H801082-50)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	04/19/2018	ND	416	104	400	3.77	

Sample ID: S - 12 3.0 (H801082-51)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC		4 4 4 1			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/19/2018	ND	416	104	400	3.77	

Sample ID: S - 12 4.0 (H801082-52)

Chloride, SM4500Cl-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	04/19/2018	ND	416	104	400	3.77	

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Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 13 0.0 (H801082-53)

BTEX 8021B	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2018	ND	2.07	103	2.00	1.15	
Toluene*	<0.050	0.050	04/19/2018	ND	2.03	102	2.00	0.387	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	1,95	97,3	2.00	1,72	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	5.89	98.2	6,00	1.57	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.0 9	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	04/20/2018	ND	416	104	400	0.00	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2018	ND	227	113	200	4,18	
DRO >C10-C28*	16.9	10.0	04/20/2018	ND	232	116	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	83.5	% 41-142	2						
Surrogate: 1-Chlorooctadecane	78.5	% 37.6-14	7						

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

Received:	04/19/2018	Sampling Date:	04/18/2018
Reported:	04/20/2018	Sampling Type:	Soil
Project Name:	TODD APACHE- TOMB RAIDER LEASE RI	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY CO NM		

Sample ID: S - 13 0.5 R (H801082-54)

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	04/19/2018	ND	2.07	103	2.00	1.15	
Toluene*	<0.050	0.050	04/19/2018	ND	2.03	102	2.00	0.387	
Ethylbenzene*	<0.050	0.050	04/19/2018	ND	1.95	97.3	2.00	1.72	
Total Xylenes*	<0.150	0.150	04/19/2018	ND	5.89	98.2	6.00	1.57	
Total BTEX	<0.300	0.300	04/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.5 9	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11400	16.0	04/20/2018	ND	416	104	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	04/20/2018	ND	227	113	200	4.18	
DRO >C10-C28*	<10.0	10.0	04/20/2018	ND	232	116	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	04/20/2018	ND					
Surrogate: 1-Chlorooctane	77.2 9	6 41-142							
Surrogate: 1-Chlorooctadecane	74.0 %	6 37.6-147							

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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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April 27, 2018

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

RE: TODD APACHE TOMB RAIDER GREY WATER

Enclosed are the results of analyses for samples received by the laboratory on 04/26/18 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene Lab Director/Quality Manager

Page 1 of 7

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

Received:	04/26/2018	Sampling Date:	04/25/2018
Reported:	04/27/2018	Sampling Type:	Soil
Project Name:	TODD APACHE TOMB RAIDER GREY WA	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S-1 5' (H801167-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/27/2018	ND	448	112	400	3.64	

Sample ID: S-1 7' (H801167-02)

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	04/27/2018	ND	448	112	400	3.64	

Sample ID: S-3 3' (H801167-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	04/27/2018	ND	448	112	400	3.64	

Sample ID: S-3 5' (H801167-04)

Cardinal Laboratories

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	04/27/2018	ND	448	112	400	3.64	

*=Accredited Analyte

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

Celay D. Kune

Celey D. Keene, Lab Director/Quality Manager

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

Received:	04/26/2018	Sampling Date:	04/25/2018
Reported:	04/27/2018	Sampling Type:	Soil
Project Name:	TODD APACHE TOMB RAIDER GREY WA	Sampling Condition:	Cool & Intact
Project Number:	700794.268.01	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S-3 7' (H801167-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	e 80.0		04/27/2018	ND	416	104	400	0.00	

Sample ID: S-5 2' (H801167-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/27/2018	ND	416	104	400	0.00	

Sample ID: S-6 5' (H801167-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result Reportir		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0 16.0		04/27/2018 ND		416	104	400	0.00	

Sample ID: S-7 5' (H801167-08)

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	04/27/2018	ND	416	104	400	0.00	

Sample ID: S-10 2' (H801167-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	04/27/2018	ND	416	104	400	0.00	

Cardinal Laboratories

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

Received:	04/26/2018	Sampling Date:	04/25/2018
Reported:	04/27/2018	Sampling Type:	Soil
Project Name:	TODD APACHE TOMB RAIDER GREY WA	Sampling Condition:	Cool & Intact
Project Number:	700794,268.01	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S-10 3' (H801167-10)

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	04/27/2018	ND	416	104	400	0.00	

Sample ID: S-10 5' (H801167-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC	<u></u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/27/2018	ND	416	104	400	0.00		

Sample ID: S-13 1' (H801167-12)

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	04/27/2018	ND	416	104	400	0.00	

Sample ID: S-13 3' (H801167-13)

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	04/27/2018	ND	416	104	400	0.00	

Sample ID: S-13 5' (H801167-14)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0 16.		04/27/2018	ND	416	104	400	0.00	

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Celez D. Kune

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Notes and Definitions

- 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 D. Keine

Celey D. Keene, Lab Director/Quality Manager

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January 15, 2019

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

RE: BOUNDRY RAIDER 6 7 FED COM 212H

Enclosed are the results of analyses for samples received by the laboratory on 01/10/19 12:00.

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 accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Received by OCD: 4/9/2020 9:43:11 AM

Celay D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/10/2019	Sampling Date:	01/09/2019
Reported:	01/15/2019	Sampling Type:	Soil
Project Name:	BOUNDRY RAIDER 6 7 FED COM 212H	Sampling Condition:	** (See Notes)
Project Number:	701337.003.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-6 4' (H900076-01)

Chloride, SM4500CI-B	/kg	Analyzed By: AC				1974 (MILLION 11 - 11 - 11			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/14/2019	ND	416	104	400	3,77	

Sample ID: S-6 5' (H900076-02)

Chloride, SM4500CI-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/14/2019	ND	416	104	400	3.77	

Sample ID: S-6 6' (H900076-03)

Chloride, SM4500CI-B mg/kg		Analyze	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/14/2019	ND	416	104	400	3.77	

Sample ID: S-6 8' (H900076-04)

Chloride, SM4500Cl-B mg/kg		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/14/2019	ND	416	104	400	3.77	

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

Received:	01/10/2019	Sampling Date:	01/09/2019
Reported:	01/15/2019	Sampling Type:	Soil
Project Name:	BOUNDRY RAIDER 6 7 FED COM 212H	Sampling Condition:	** (See Notes)
Project Number:	701337.003.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-6 10' (H900076-05)

Chloride, SM4500Cl-B mg/kg			Analyzed By: AC				and a second		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2019	ND	416	104	400	3.77	

Sample ID: S-6 W (H900076-06)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/14/2019	ND	416	104	400	3.77	

Sample ID: S-6 E (H900076-07)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/14/2019	ND	416	104	400	3.77	

Sample ID: S-14 (H900076-08)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/14/2019	ND	416	104	400	3.77	

Sample ID: S-15 (H900076-09)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/14/2019	ND	416	104	400	3.77	

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Received:	01/10/2019	Sampling Date:	01/09/2019
Reported:	01/15/2019	Sampling Type:	Soil
Project Name:	BOUNDRY RAIDER 6 7 FED COM 212H	Sampling Condition:	** (See Notes)
Project Number:	701337.003.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-16 (H900076-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2019	ND	416	104	400	3.77	

Sample ID: S-17 (H900076-11)

Chloride, SM4500Cl-B mg/kg			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/14/2019	ND	416	104	400	3.77	

Sample ID: S-18 1.5' (H900076-12)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/14/2019	ND	416	104	400	3,77	

Sample ID: S-19 (H900076-13)

Chloride, SM4500Cl-B mg/kg			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/14/2019	ND	416	104	400	3.77	

Sample ID: S-20 (H900076-14)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/14/2019	ND	416	104	400	0.00	

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Received:	01/10/2019	Sampling Date:	01/09/2019
Reported:	01/15/2019	Sampling Type:	Soil
Project Name:	BOUNDRY RAIDER 6 7 FED COM 212H	Sampling Condition:	** (See Notes)
Project Number:	701337.003.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-21 0.5' (H900076-15)

Chloride, SM4500CI-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/14/2019	ND	416	104	400	0.00	

Sample ID: S-22 (H900076-16)

Chloride, SM4500CI-B	loride, SM4500Cl-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/14/2019	ND	416	104	400	0.00	

Sample ID: S-23 2.0' (H900076-17)

Chloride, SM4500Cl-B	SM4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/14/2019	ND	416	104	400	0.00	

Sample ID: S-24 (H900076-18)

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	01/14/2019	ND	416	104	400	0.00	

Sample ID: S-25 (H900076-19)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/14/2019	ND	416	104	400	0.00	

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Received:	01/10/2019	Sampling Date:	01/09/2019
Reported:	01/15/2019	Sampling Type:	Soil
Project Name:	BOUNDRY RAIDER 6 7 FED COM 212H	Sampling Condition:	** (See Notes)
Project Number:	701337.003.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-26 (H900076-20)

Chloride, SM4500Cl-B	mg/kg Analyz			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/14/2019	ND	416	104	400	0.00	

Sample ID: S-27 2.5' (H900076-21)

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	01/14/2019	ND	416	104	400	0.00	

Sample ID: S-28 (H900076-22)

Chloride, SM4500Cl-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	01/14/2019	ND	416	104	400	0.00	

Sample ID: S-29 1.0' (H900076-23)

Chloride, SM4500CI-B mg/kg			Analyze	d By: AC	С				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2019	ND	416	104	400	0.00	

Sample ID: S-30 (H900076-24)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2019	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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Received:	01/10/2019	Sampling Date:	01/09/2019
Reported:	01/15/2019	Sampling Type:	Soil
Project Name:	BOUNDRY RAIDER 6 7 FED COM 212H	Sampling Condition:	** (See Notes)
Project Number:	701337.003.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-31 (H900076-25)

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	01/14/2019	ND	416	104	400	0.00	

Sample ID: S-35 1.0' (H900076-26)

Chloride, SM4500Cl-B	mg	mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/14/2019	ND	416	104	400	0.00	

Sample ID: S-36 (H900076-27)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2019	ND	416	104	400	0.00	

Sample ID: S-38 0.5 (H900076-28)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/14/2019	ND	416	104	400	0.00	

Sample ID: S-39 (H900076-29)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/14/2019	ND	416	104	400	0.00	

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Received:	01/10/2019	Sampling Date:	01/09/2019
Reported:	01/15/2019	Sampling Type:	Soil
Project Name:	BOUNDRY RAIDER 6 7 FED COM 212H	Sampling Condition:	** (See Notes)
Project Number:	701337.003.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-40 (H900076-30)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/14/2019	ND	416	104	400	0.00	

Sample ID: S-41 (H900076-31)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	01/14/2019	ND	416	104	400	0.00	
Sample ID: S-42 (H900076	-32)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/14/2019	ND	416	104	400	0.00	

Sample ID: S-43 (H900076-33)

Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	01/14/2019	ND	416	104	400	0.00	

Sample ID: S-37 (H900076-34)

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	01/14/2019	ND	416	104	400	0.00	

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Notes and Definitions

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

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January 24, 2019

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

RE: STANDARD OIL - BOUNDRY RAIDER

Enclosed are the results of analyses for samples received by the laboratory on 01/23/19 11:53.

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.

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,

Received by OCD: 4/9/2020 9:43:11 AM

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/23/2019	Sampling Date:	01/21/2019
Reported:	01/24/2019	Sampling Type:	Soil
Project Name:	STANDARD OIL - BOUNDRY RAIDER	Sampling Condition:	Cool & Intact
Project Number:	701337.003.01	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

### Sample ID: S - 41 A 1.5' (H900241-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	01/24/2019	ND	432	108	400	0.00	

### Sample ID: S - 41 A 2.0' (H900241-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/24/2019	ND	432	108	400	0.00	

## Sample ID: S - 41 A 3.0' (H900241-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC			11. Z. Z. M. M.		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/24/2019	ND	432	108	400	0.00	

## Sample ID: S - 43 A 2.0' (H900241-04)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Anaiyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/24/2019	ND	432	108	400	0.00	

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Celleg Di Keena-



### **Notes and Definitions**

RPD     Relative Percent Difference       ***     Samples not received at proper temperature of 6°C or below.       ***     Insufficient time to reach temperature.       -     Chloride by SM4500CI-B does not require samples be received at or below 6°C samples reported on an as received basis (wet) unless otherwise noted on report	ND	Analyte NOT DETECTED at or above the reporting limit
***         Insufficient time to reach temperature.           -         Chloride by SM4500CI-B does not require samples be received at or below 6°C	RPD	Relative Percent Difference
- Chloride by SM4500CI-B does not require samples be received at or below 6°C	**	Samples not received at proper temperature of 6°C or below.
	***	Insufficient time to reach temperature.
Samples reported on an as received basis (wet) unless otherwise noted on report	-	Chloride by SM4500CI-B does not require samples be received at or below $6^{\circ}C$
		Samples reported on an as received basis (wet) unless otherwise noted on report $% \left( {{{\left( {{{{\bf{n}}}} \right)}_{i}}}_{i}} \right)$

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Laboratories



January 31, 2019

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

**RE: BOUNDRY RAIDER** 

Enclosed are the results of analyses for samples received by the laboratory on 01/28/19 16:40.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Received by OCD: 4/9/2020 9:43:11 AM

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/28/2019	Sampling Date:	01/24/2019
Reported:	01/31/2019	Sampling Type:	Soil
Project Name:	BOUNDRY RAIDER	Sampling Condition:	** (See Notes)
Project Number:	702248.029.01	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD ENERGY - LEA COUNTY, NM		

## Sample ID: S - 34 S. SIDEWALL (H900299-01)

**BTEX 8021B** mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier 0.050 Benzene* < 0.050 01/29/2019 ND 1.94 96.9 2.00 1.04 Toluene* < 0.050 0.050 01/29/2019 99.9 ND 2.00 2.00 0.468 Ethylbenzene* <0.050 0.050 01/29/2019 2.00 2.00 ND 100 0.445 Total Xylenes* < 0.150 0.150 01/29/2019 ND 6.10 102 6.00 0.949 Total BTEX <0,300 0.300 01/29/2019 ND

Surrogate: 4-Bromofluorobenzene (PIL 102 % 73.3-129

Chloride, SM4500CI-B Analyte	mg/kg		Analyzed By: AC						
	Result	Reporting Limit	Analyzed	Method Blank	BS %	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/29/2019	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2019	ND	184	92.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	01/30/2019	ND	193	96.7	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	01/30/2019	ND					
Surrogate: 1-Chlorooctane	71.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	64.5	% 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:	01/28/2019	Sampling Date:	01/24/2019
Reported:	01/31/2019	Sampling Type:	Soil
Project Name:	BOUNDRY RAIDER	Sampling Condition:	** (See Notes)
Project Number:	702248.029.01	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD ENERGY - LEA COUNTY, NM		

### Sample ID: S - 32 N. SIDEWALL (H900299-02)

**BTEX 8021B** mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Benzene* < 0.050 0.050 01/29/2019 ND 1.94 96.9 2.00 1.04 Toluene* <0.050 0.050 01/29/2019 ND 2.00 99.9 2.00 0.468 Ethylbenzene* < 0.050 0.050 01/29/2019 ND 2.00 100 2.00 0.445 Total Xylenes* < 0.150 0.150 01/29/2019 ND 6.10 102 6.00 0.949 Total BTEX <0,300 0.300 01/29/2019 ND

Surrogate: 4-Bromofluorobenzene (PIE 103 % 73.3-129

Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	01/29/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS			5/7.47		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2019	ND	184	92.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	01/30/2019	ND	193	96.7	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	01/30/2019	ND					
Surrogate: 1-Chlorooctane	75.0	% 41-142	1						
Surrogate: 1-Chlorooctadecane	66.7	% 37.6-14	7						

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Celeg D. Keena-

**Cardinal Laboratories** 

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 8



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

Received:	01/28/2019	Sampling Date:	01/24/2019
Reported:	01/31/2019	Sampling Type:	Soil
Project Name:	BOUNDRY RAIDER	Sampling Condition:	** (See Notes)
Project Number:	702248.029.01	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD ENERGY - LEA COUNTY, NM		

### Sample ID: S - 33 CENTER (H900299-03)

**BTEX 8021B** mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Benzene* < 0.050 0.050 01/29/2019 ND 1.94 96.9 2.00 1.04 Toluene* < 0.050 0.050 01/29/2019 ND 2.00 99.9 2.00 0.468 Ethylbenzene* <0.050 0.050 01/29/2019 ND 2.00 100 2.00 0.445 Total Xylenes* <0.150 0,150 01/29/2019 ND 6.10 102 6.00 0.949 Total BTEX < 0.300 0.300 01/29/2019 ND

Surrogate: 4-Bromofluorobenzene (PIL 102 % 73.3-129

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/29/2019	ND	416	104	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	01/30/2019	ND	184	92.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	01/30/2019	ND	193	96.7	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	01/30/2019	ND					
Surrogate: 1-Chlorooctane	87.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	79.4	% 37.6-14	7						

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Celeg Di Kena

**Cardinal Laboratories** 



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

Received:	01/28/2019	Sampling Date:	01/24/2019
Reported:	01/31/2019	Sampling Type:	Soil
Project Name:	BOUNDRY RAIDER	Sampling Condition:	** (See Notes)
Project Number:	702248.029.01	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD ENERGY - LEA COUNTY, NM		

### Sample ID: S - 33 CENTER 1' (H900299-04)

**BTEX 8021B** mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Analyte <0.050 0.050 01/29/2019 ND 1.94 96.9 2.00 1.04 Benzene* 01/29/2019 Toluene* < 0.050 0.050 ND 2.00 99.9 2.00 0.468 <0.050 0.050 01/29/2019 2.00 2.00 Ethylbenzene* ND 100 0.445 Total Xylenes* 01/29/2019 6,00 <0.150 0.150 ND 6.10 102 0.949 Total BTEX < 0.300 0.300 01/29/2019 ND

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	32.0	16.0	01/29/2019	ND	416	104	400	3.92	
трн 8015м	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	01/30/2019	ND	184	92.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	01/30/2019	ND	193	96.7	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	01/30/2019	ND					
Surrogate: 1-Chlorooctane	90.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	86.7	% 37.6-14	7						

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Celleg D. Kune-

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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

Received:	01/28/2019	Sampling Date:	01/24/2019
Reported:	01/31/2019	Sampling Type:	Soil
Project Name:	BOUNDRY RAIDER	Sampling Condition:	** (See Notes)
Project Number:	702248.029.01	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD ENERGY - LEA COUNTY, NM		

### Sample ID: S - 33 CENTER 2' (H900299-05)

**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 01/30/2019 ND 1.90 95.2 2.00 0.109 <0.050 0.050 01/30/2019 97.5 2.00 0.688 Toluene* ND 1.95 0.050 01/30/2019 97.9 2.00 0.0573 Ethylbenzene* < 0.050 ND 1.96 Total Xylenes* <0.150 0.150 01/30/2019 ND 5.96 99.3 6.00 0.420 Total BTEX 0.300 01/30/2019 ND < 0.300

Surrogate: 4-Bromofluorobenzene (PIL 101 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/29/2019	ND	416	104	400	3.92	
ТРН 8015М	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	01/30/2019	ND	184	92.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	01/30/2019	ND	193	96.7	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	01/30/2019	ND					
Surrogate: 1-Chlorooctane	94.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.5	% 37.6-14	7						

### *=Accredited Analyte

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Celeg D. Kuna-

**Cardinal Laboratories** 



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 8 of 8

### Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### 101 East Marland, Hobbs, NM 88240

(ara) 383-2326 FAX (5/5) 393-2476	76			
Company Name: TALON LPE		OLTING		ANALYSIS REQUEST
Project Manager: (HRIS JONES		P.O. #: 702248, 029.0		1
Address: 408, W. TEXAS AVE		Company. THUON LPE	m	
City: ARTESIA State: NM	210: 88210	¥۰		
Phone#: 575-631、6977 Fax 統	1 1	Address:		
Project #: 70 2248, 029. 01 Project Owne	Project Owner: STANDARD ENERLY	City:		
Project Name: BOUNDARY RAIDER	L	State: Zip:	5	
Project Location: LEA COULNTY		Phone #:	ÞE	
Sampler Name: MICHAEL COLLER		Fax #:	R ₁	
FOR LAS USE ONLY	P. MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	)RAB OR (C)ON CONTAINERS ROUNDWATER ASTEWATER DIL - UDGE	HER : ID/BASE: E / COOL HER :	CPH 3TEX DTAL C	
S-34 S. SODEWALL		V 124/19	10:30 1 1 1 1	
2 5-32 N. SIDEWALL				
S-33 CENTER			10:45	
4 S-33 CENTER 1			10:50	
			10:55	
	riny ciaim arising whether based in contrast o Jeemed waived unless made in writing and s i without limitation, business interruptions, jo andhal, regardiess of whether such plaim is	r tort, shall be limited to the amount paid by received by Cardinal within 30 days after co co of use, or loss of profils insurred by aller based upon any of the above stolaet mean	, the elient for the misicion of the applicable it is subsidiarize,	- - 
Relinquished By:	Received By:	Received By:		Add'! Phone #:
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Delivered By: (Circle One)	8	오		
Sampler - UPS - Bus - Other: 14.8 c	ATCH COOL IMACT			

Page 114 of 128

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

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. Released to Imaging: 9/14/2021 2:17:11 PM

February 06, 2019

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

**RE: BOUNDARY RAIDER** 

Enclosed are the results of analyses for samples received by the laboratory on 01/30/19 11:20.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celez D. Keene

Celey D. Keene Lab Director/Quality Manager

### Laboratories

### Analytical Results For:

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

Received:	01/30/2019	Sampling Date:	01/28/2019
Reported:	02/06/2019	Sampling Type:	Soil
Project Name:	BOUNDARY RAIDER	Sampling Condition:	Cool & Intact
Project Number:	701337.003.01	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD ENERGY - LEA COUNTY, NM		

### Sample ID: S- 44 CENTER 1.5' (H900344-01)

BTEX 8021B	mg/kg Analyzed By: MS		d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2019	ND	1.89	94.7	2.00	1.52	
Toluene*	<0.050	0.050	02/01/2019	ND	1.92	96.2	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.82	90.9	2.00	0.955	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.32	88.6	6.00	0.800	
Total BTEX	<0.300	0.300	02/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 101 % 73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2019	ND	416	104	400	3,77	
TPH 8015M mg/kg		/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	167	83.5	200	0.387	
DRO >C10-C28*	18.3	10.0	02/01/2019	ND	179	89.3	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					
Surrogate: 1-Chlorooctane	89.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	<i>92.5</i>	% 37.6-14	7						

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*=Accredited Analyte

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Celleg Di Keene



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

Received:	01/30/2019	Sampling Date:	01/28/2019
Reported:	02/06/2019	Sampling Type:	Soil
Project Name:	BOUNDARY RAIDER	Sampling Condition:	Cool & Intact
Project Number:	701337.003.01	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD ENERGY - LEA COUNTY, NM		
•			

### Sample ID: S- 45 WEST SIDEWALL 1.5' (H900344-02)

BTEX 8021B Analyzed By: MS mg/kg Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Analyte Result <0.050 0.050 02/01/2019 ND 1,89 94.7 2.00 1.52 Benzene* 2.00 1.91 < 0.050 0.050 02/01/2019 ND 1,92 96.2 Toluene* 90.9 0.955 02/01/2019 1.82 2.00 < 0.050 0.050 ND Ethylbenzene* 5.32 88.6 6.00 0.800 <0.150 0.150 02/01/2019 ND Total Xylenes* Total BTEX < 0.300 0.300 02/01/2019 ND

Surrogate: 4-Bromofluorobenzene (PIL 96.9 % 73.3-129

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/02/2019	ND	416	104	400	3.77	
TPH 8015M mg/kg		/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	167	83.5	200	0.387	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	179	89.3	200	4,23	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					
Surrogate: 1-Chlorooctane	88.6	% 41-142	2						
Surrogate: 1-Chlorooctadecane	90.4	% 37.6-14	7						

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

Reported: 02/06/2019	Sampling Type:	Soil
Project Name: BOUNDARY RAIDER	Sampling Condition:	Cool & Intact
Project Number: 701337.003.01	Sample Received By:	Tamara Oldaker
Project Location: STANDARD ENERGY - LEA COUNTY, NM		

### Sample ID: S- 46 EAST SIDEWALL 1.5' (H900344-03)

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 02/01/2019 ND 1.89 94.7 2.00 1.52 Toluene* < 0.050 0.050 02/01/2019 ND 1.92 96.2 2.00 1.91 Ethylbenzene* < 0.050 0.050 02/01/2019 ND 1.82 90.9 2.00 0.955 Total Xylenes* 0.150 < 0.150 02/01/2019 ND 5.32 88.6 6.00 0,800 Total BTEX < 0.300 0,300 02/01/2019 ND

Surrogate: 4-Bromofluorobenzene (PIL 96.9 % 73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/02/2019	ND	416	104	400	3.77	
TPH 8015M mg/kg		Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	167	83.5	200	0.387	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	179	89.3	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					
Surrogate: 1-Chlorooctane	91.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	94.9	% 37.6-14	7						

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Celeg D Keene

Celey D. Keene, Lab Director/Quality Manager

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### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Received by OCD: 4/9/2020 9:43:11 AM

age 120 of 128	
Pa	$\dot{ extsf{t}}$ Cardinal cannot accept verbal changes. Please fax written changes to (575) 30
	i) 393-2326

		Sampler - UPS - Bus - Other: S. 477 GYes GYes
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2 2	t or tort, shall be limited to the amount paid by the elient for the $d$ roceived by Candinal within 30 days after completion of the a	PLEASE NOTE: Libeling and Clamages. Cardinata leading and elective concepts for any claim arching whother back in ontonse or tort, shall be finded to the answer paid by the election of the applicable analyzes. All claims including those for negligence and any other cause whotoever stall be decaded valued unless made in writing and (ceased by Caudinal within 30 days after completions of the applicable analyzes. All claims including those for negligence and any other cause whotoever stall be decaded valued unless made in writing and (ceased by Caudinal within 30 days after completions of the applicable analyzes. All claims including those for negligence and any other cause whotoever stall be decaded valued unless made in writing and (ceased by Caudinal within 30 days after completions of the applicable analyzes.
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	Fax #:	451
10	Phone #:	Project Location: LEA COUNTY
<u>E</u> S	State: Zip:	Project Name: BOUNDARY RAIDER
	City:	Project # 701 337.003.01 Project Owner: STANDARD ENERGY
	Address:	Phone #: 575- 631- 6977 Fax #
	Attn: C. JONES	City: ACTESIA State: NM Zip: 89210
	COMPANY: TALON LE	Address: 408, W. TEXAS AUE
	P.O. # 701337.003.01	Project Manager: CHC15 JOUE
ANALYSIS REQUEST		Company Name: TALON (UPE
		101 East Inatiand, Hobbs, NW 88240 (575) 393-2326 FAX (575) 393-2476

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Page 6 of 6

CARDINAL

February 13, 2019

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

**RE: BOUNDARY RAIDER** 

Enclosed are the results of analyses for samples received by the laboratory on 02/07/19 17:00.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Received by OCD: 4/9/2020 9:43:11 AM

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	02/07/2019	Sampling Date:	01/31/2019
Reported:	02/13/2019	Sampling Type:	Soil
Project Name:	BOUNDARY RAIDER	Sampling Condition:	** (See Notes)
Project Number:	701337.003.01	Sample Received By:	Jodi Henson
Project Location:	STANDARD ENERGY - LEA COUNTY, NM		

### Sample ID: S - 47 1.5' (H900503-01)

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	02/13/2019	ND	416	104	400	3.92	

### Sample ID: S - 48 1.5' (H900503-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC			· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/13/2019	ND	416	104	400	3,92	

### Sample ID: S - 49 1.5' (H900503-03)

Chloride, SM4500CI-B	nloride, 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	02/13/2019	ND	416	104	400	3.92	

### Sample ID: S - 50 2.5' (H900503-04)

Chloride, SM4500Cl-B	mg	mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/13/2019	ND	416	104	400	3.92	

### Cardinal Laboratories

*=Accredited Analyte

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Celeg Di Kerne

### Analytical Results For:

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

Received:	02/07/2019	Sampling Date:	02/01/2019
Reported:	02/13/2019	Sampling Type:	Soil
Project Name:	BOUNDARY RAIDER	Sampling Condition:	** (See Notes)
Project Number:	701337.003.01	Sample Received By:	Jodi Henson
Project Location:	STANDARD ENERGY - LEA COUNTY, NM		

### Sample ID: S - 51 2.5' (H900503-05)

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	02/13/2019	ND	416	104	400	3.92	

### Sample ID: S - 52 1.5' (H900503-06)

Chloride, SM4500CI-B	/kg	kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/13/2019	ND	416	104	400	3.92	

### Sample ID: S -53 3.5' (H900503-07)

Chloride, SM4500Cl-B	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	02/13/2019	ND	416	104	400	3,92	

### Sample ID: S - 54 3.5' (H900503-08)

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	02/13/2019	ND	416	104	400	3,92	

### Sample ID: S - 55 3.5' (H900503-09)

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	02/13/2019	ND	416	104	400	3.92	

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

Celez B. Kerre

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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

Received:	02/07/2019	Sampling Date:	02/04/2019
Reported:	02/13/2019	Sampling Type:	Soil
Project Name:	BOUNDARY RAIDER	Sampling Condition:	** (See Notes)
Project Number:	701337.003.01	Sample Received By:	Jodi Henson
Project Location:	STANDARD ENERGY - LEA COUNTY, NM		

### Sample ID: S - 56 2' (H900503-10)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/13/2019	ND	400	100	400	3.92	

### Sample ID: S - 57 2' (H900503-11)

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	02/13/2019	ND	400	100	400	3.92	

### Sample ID: S - 58 2' (H900503-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/13/2019	ND	400	100	400	3.92	

### Sample ID: S - 32 1' (H900503-13)

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	02/13/2019	ND	400	100	400	3.92	

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Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager

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### **Notes and Definitions**

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 Dithera

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

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CARDINAL Laboratories Page 6 of 7

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

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Delivered By: (Circle One) Sample condition CHECKED BY:   Sampler - UPS - Bus - Other: The set of the set	Time:	Relinquished By: Date: Received By:	7/10 Keceived By:	nues un inguience ana any anno cause wassesever shall be deemnd vaxed uniess model working and caved by Cardinal Not days all Unai be liselio for Indeinali ne cancerductal dosnager, including within Unitaling, benes hiermyliene, jese orse, en est posti neurote by out of ar related to the performance of servless hereunder by Cardinal, repandiese givineher such claim is based upon any of the above slaked re	PIEASE NOTE: Lability and Camages. Cardina's lability and elents oxelusive remedy for any claim atking whather based in contract or tori, shall be limited in the amount paid by the cleent to the				1	5-32 1°	5-57 2 6 1	# COI GROI WAS SOIL OIL SLUD OTHE ACID/ ICE / OTHE DATE	NTAINI JNDW, FEWAT GE :R : 'BASE: COOL	(C)OMP ERS ATER	Sampier Name: MICHAEL COLLICE. Fax #:	Project Location: UPA COUNTY Phone #:	Project Name: BOLND ARY LAIDER State: Zip:	Project # 701 337 . 003 . OI Project Owner: STADDARD ENGLUY City:	Phone # 575-441-4835 Fax # Address:	City: ARTESIA State: NM Zip: 88210 Attn: D. ADKINS	Address: 408 W. TEXAS AVE Company: THUM UPE	Pro.#: Tot 337.003.01	TALON LAE	arland, Hobbs, NM 88240 326 FAX (575) 393-2476
		ил плото	Phone Result:	pliczble	dent for the								ЭТ (A			· · · · · · · · · · · · · · · · · · ·							ANALYSIS REQUEST	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	4900
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS								
Created By	Condition	Condition Date						
bbillings	Although DTW was not correctly determined the values used for closure were most stringent.	9/14/2021						

Action 4900