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## 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**

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'

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.



Table 1: Work Plan Soil Analysis

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)
BG	0.0	<0.300	80	<10	<10	<10	<10
	1.0	<0.300	16	<10	<10	<10	<10
	2.0	--	64	--	--	--	--
	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	--	--	--	--
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	--	--	--	--
	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	--	--	--	--
S-4	0.0	<0.300	16000	<10	<10	<10	<10
	1.0	<0.300	96	<10	<10	<10	<10
	2.0	<0.300	80	<10	<10	<10	<10
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	--	--	--	--
S-6	0.0	3.75	60800	<10	12.5	<10	12.5
	0.5	<0.300	12000	<10	<10	<10	<10



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)
<b>S-6</b>	1.0	--	208	--	--	--	--
	2.0	--	432	--	--	--	--
	3.0	--	400	--	--	--	--
	4.0	--	800	--	--	--	--
<b>S-7</b>	0.0	<0.300	<b>11600</b>	<10	<10	<10	<10
	1.0	<0.300	<b>4960</b>	<10	<10	<10	<10
	2.0	--	192	--	--	--	--
	3.0	--	80	--	--	--	--
	4.0	--	720	--	--	--	--
	5.0	--	<16	--	--	--	--
<b>S-8</b>	0.0	<0.300	176	<10	<10	<10	<10
<b>Refusal</b>	1.0	<0.300	48	<10	<10	<10	<10
<b>S-9</b>	0.0	<0.300	<b>19600</b>	<10	<10	<10	<10
	1.0	<0.300	<b>8160</b>	<10	<10	<10	<10
	2.0	--	640	--	--	--	--
<b>Refusal</b>	3.0	--	352	--	--	--	--
<b>S-10</b>	0.0	<0.300	<b>18200</b>	<10	<10	<10	<10
	1.0	<0.300	<b>10800</b>	<10	<10	<10	<10
	1.5	--	<b>8200</b>	--	--	--	--
	2.0	--	<b>4000</b>	--	--	--	--
	3.0	--	64	--	--	--	--
	5.0	--	64	--	--	--	--
<b>S-11</b>	0.0	<0.300	<b>9800</b>	<10	<10	<10	<10
	1.0	<0.300	144	<10	<10	<10	<10
	2.0	--	80	--	--	--	--
	3.0	--	64	--	--	--	--
	4.0	--	80	--	--	--	--
<b>S-12</b>	0.0	<0.300	<b>11800</b>	<10	<10	<10	<10
	1.0	<0.300	<b>8400</b>	<10	<10	<10	<10
	2.0	--	416	--	--	--	--
	3.0	--	304	--	--	--	--
	4.0	--	128	--	--	--	--
<b>S-13</b>	0.0	<0.300	<b>20000</b>	<10	16.9	<10	16.9
	0.5	<0.300	<b>11400</b>	<10	<10	<10	<10

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 (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (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	--	--	--	--
S-19	0-1	--	224	--	--	--	--
S-20	0.5	--	384	--	--	--	--
S-21	0.5	--	<16.0	--	--	--	--



Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)
S-22	0.5	--	16.0	--	--	--	--
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	--	--	--	--
S-36	0-1	--	80.0	--	--	--	--
S-37	0-1	--	64.0	--	--	--	--
S-38	0.5	--	240	--	--	--	--
S-39	0-1	--	144	--	--	--	--
S-40	0-1	--	64.0	--	--	--	--



Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)
S-41	1.0	--	1070	--	--	--	--
S-41A	1.5	--	1020	--	--	--	--
S-41A	2.0	--	224	--	--	--	--
S-41A	3.0	--	80	--	--	--	--
S-42	0-1	--	112	--	--	--	--
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
S-46	1.5	<0.300	32.0	<10.0	<10.0	<10.0	<10.0
S-47	1.5	--	48.0	--	--	--	--
S-48	1.5	--	112	--	--	--	--
S-49	1.5	--	48.0	--	--	--	--
S-50	2.5	--	16.0	--	--	--	--
S-51	2.5	--	48.0	--	--	--	--
S-52	1.5	--	144	--	--	--	--
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	--	--	--	--
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](#).

## 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



Brandon Sinclair  
Environmental Scientist



David J. Adkins  
District Manager

## Attachments

- Appendix I Site Plans
- Appendix II Groundwater Data & Soil Survey
- Appendix III FEMA Flood Map
- Appendix IV Initial and Final C-141
- Appendix V Laboratory Reports



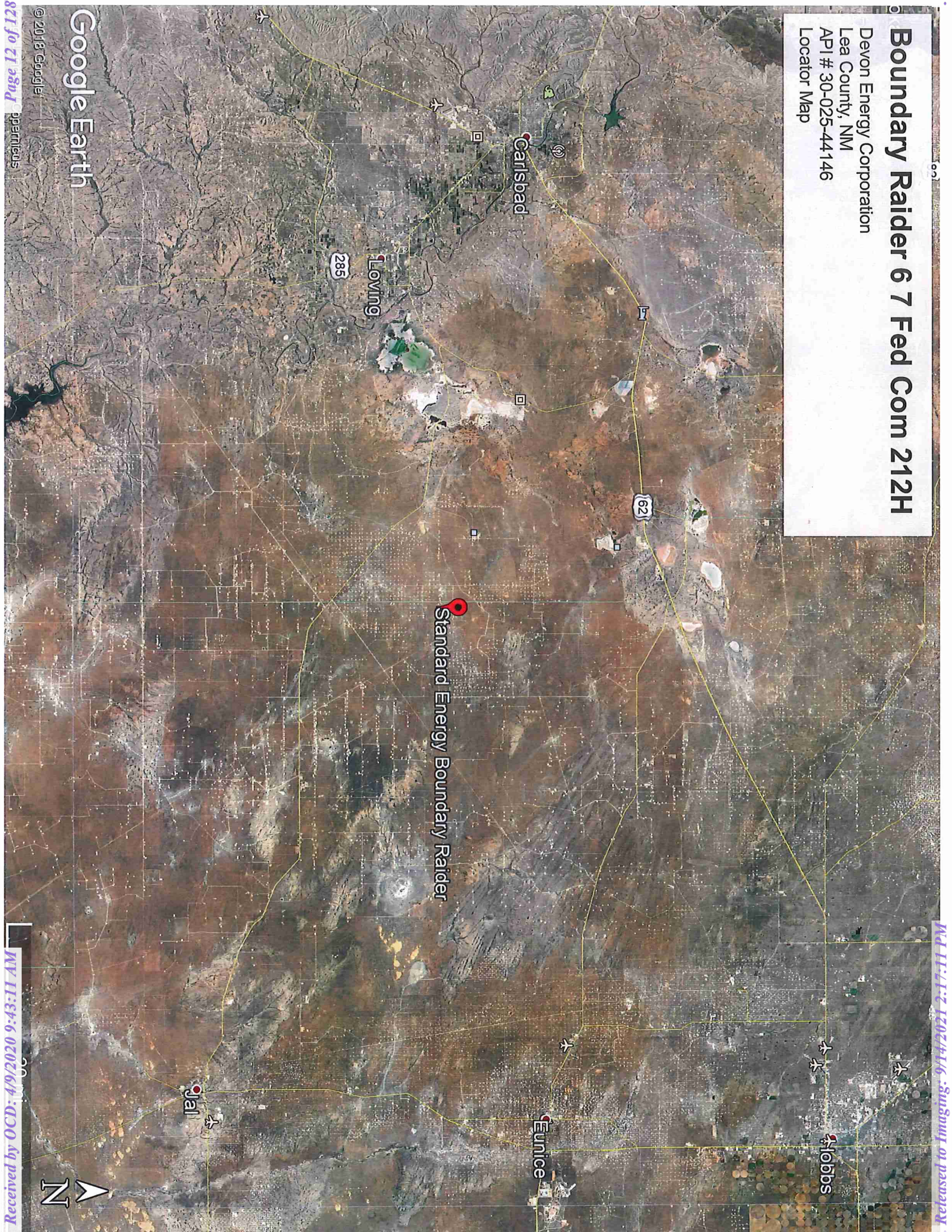
## APPENDIX I

## SITE PLANS



# Boundary Raider 6 7 Fed Com 212H

Devon Energy Corporation  
Lea County, NM  
API # 30-025-44146  
Locator Map



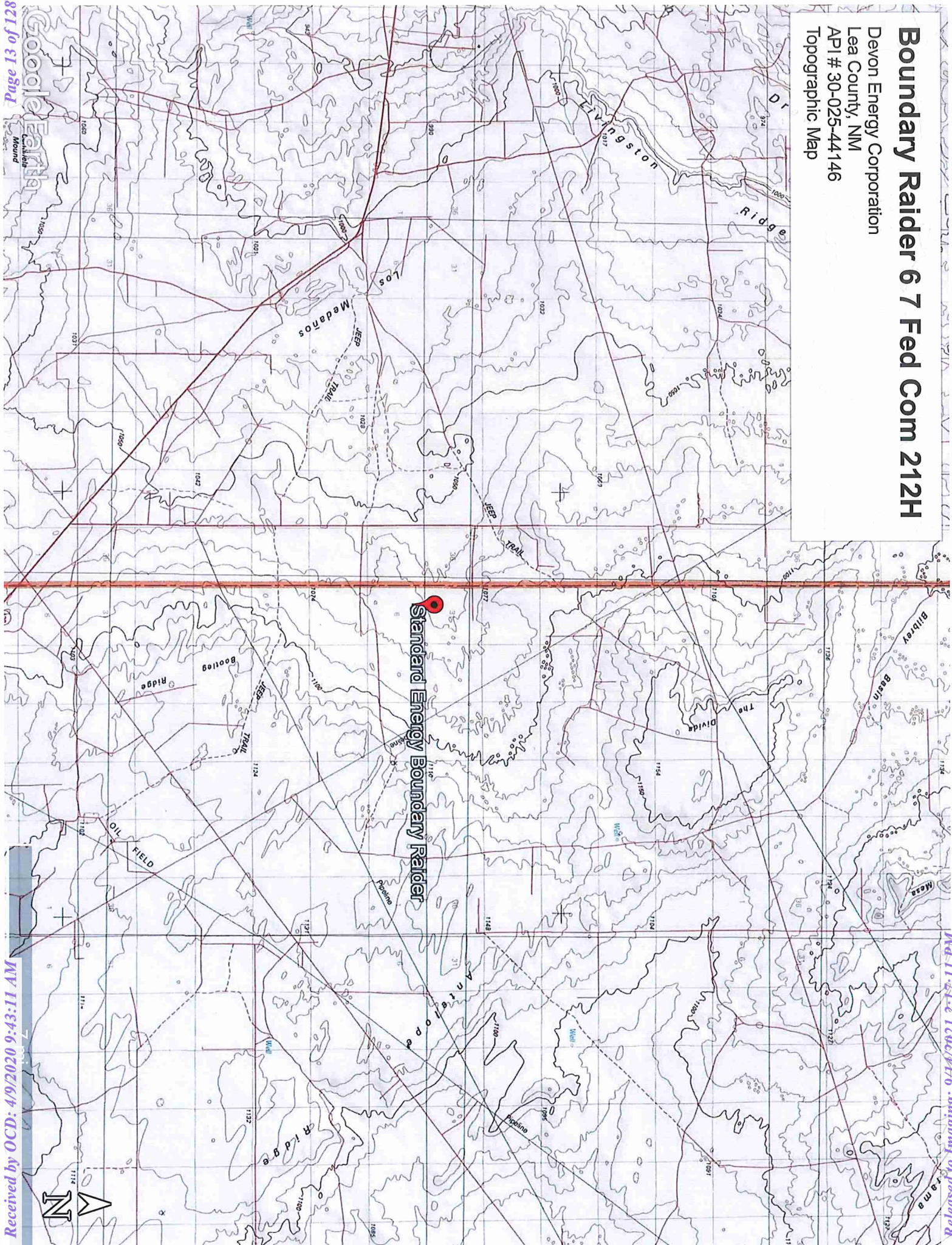
Google Earth

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Devon Energy Corporation  
Lea County, NM  
API # 30-025-44146  
Topographic Map





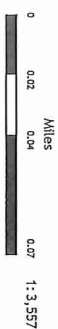
Boundary Raider 6 7 Fed Com 212H-Todd Apache Lease Road

130 bbls grey water

**devon**

This map is for illustrative purposes only and is not intended to be used as evidence. Devon makes no warranty, kind regarding this map.

WGS\_1984, Web\_Mercator\_Auxiliary\_Sphere  
Prepared by: Michael Spoemleker  
Map is current as of: 01-May-2018

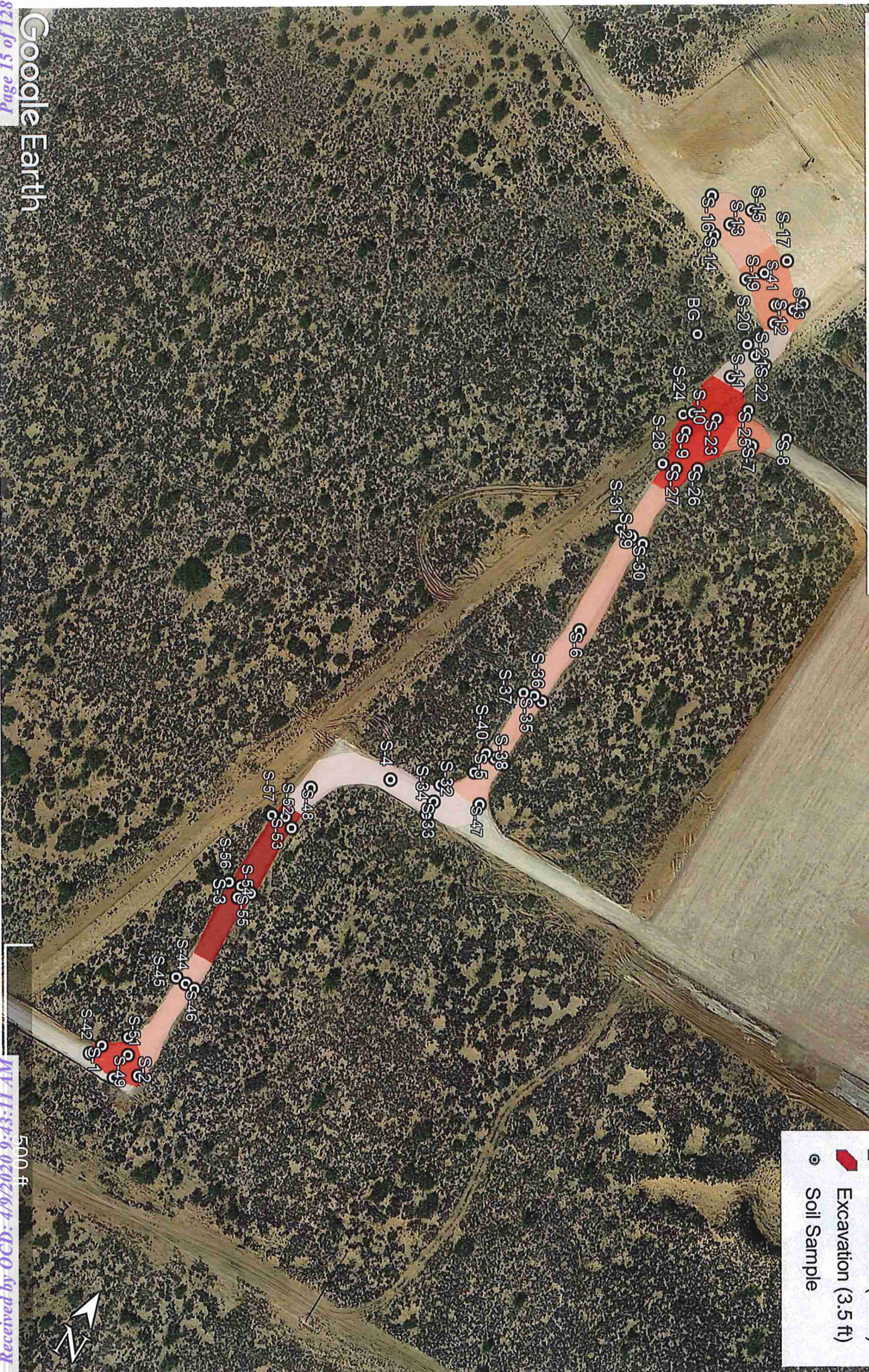




# Boundary Raider 6 7 Fed Com 212H

Devon Energy Production Company  
Lea County, NM  
API # 30-025-44146  
Impact Area Map Overview

- Legend**
- Excavation (0.5 ft)
  - Excavation (1.0 ft)
  - Excavation (1.5 ft)
  - Excavation (2.5 ft)
  - Excavation (3.5 ft)
  - Soil Sample

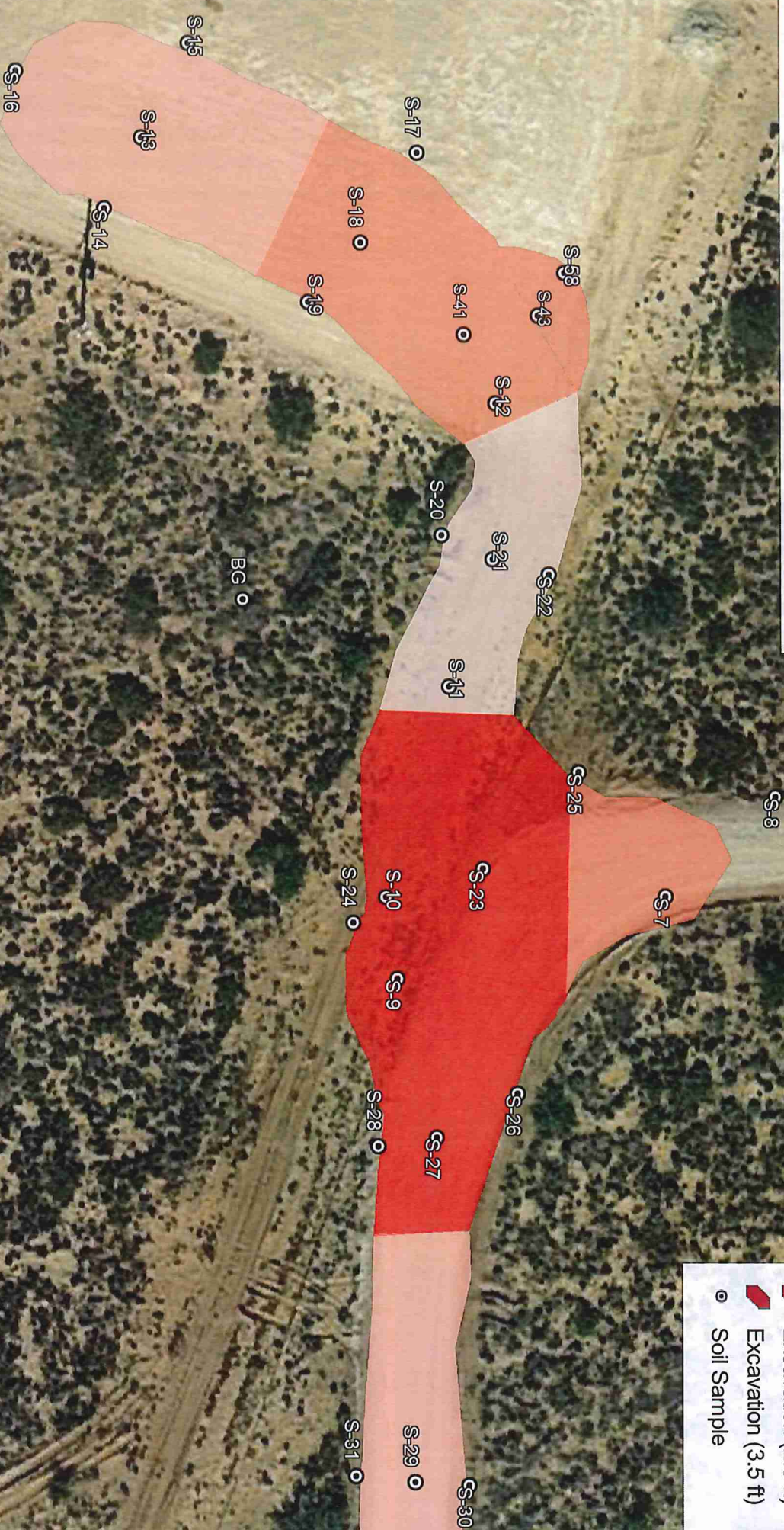




# Boundary Raider 6 7 Fed Com 212H

Devon Energy Production Company  
Lea County, NM  
API # 30-025-44146  
Impact Area Map #1

- Legend**
- Excavation (0.5 ft)
  - Excavation (1.0 ft)
  - Excavation (1.5 ft)
  - Excavation (2.5 ft)
  - Excavation (3.5 ft)
  - Soil Sample





# Boundary Raider 6 7 Fed Com 212H

Devon Energy Production Company  
Lea County, NM  
API # 30-025-44146  
Impact Area Map #2

- Legend**
- Excavation (0.5 ft)
  - Excavation (1.0 ft)
  - Excavation (1.5 ft)
  - Excavation (2.5 ft)
  - Excavation (3.5 ft)
  - Soil Sample





# Boundary Raider 6 7 Fed Com 212H

Devon Energy Production Company  
Lea County, NM  
API # 30-025-44146  
Impact Area Map #3

Legend

Excavation (0.5 ft)

Excavation (1.0 ft)

Excavation (1.5 ft)

Excavation (2.5 ft)

Excavation (3.5 ft)

Soil Sample

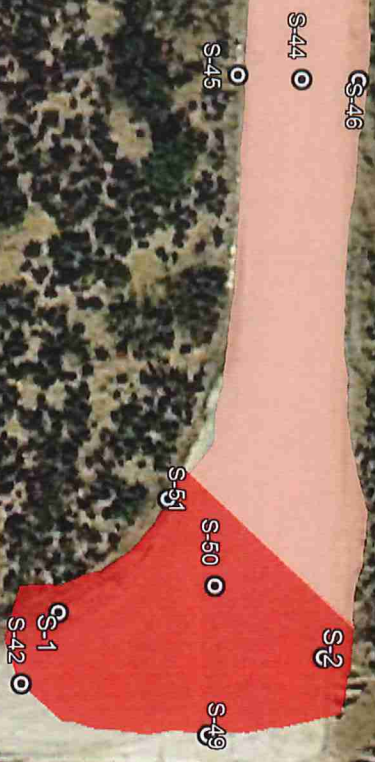




# Boundary Raider 6 7 Fed Com 212H

Devon Energy Production Company  
Lea County, NM  
API # 30-025-44146  
Impact Area Map #4

- Legend**
- Excavation (0.5 ft)
  - Excavation (1.0 ft)
  - Excavation (1.5 ft)
  - Excavation (2.5 ft)
  - Excavation (3.5 ft)
  - Soil Sample





**APPENDIX II**

**GROUNDWATER DATA**

**SOIL SURVEY**





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

No wells found.

**UTMAD83 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 warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the data.

7/10/19 1:34 PM

WELLS WITH WELL LOG INFORMATION



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




(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right)

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

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

(NAD83 UTM in meters)

(in feet)

POD Number	Code	Subbasin	County	Source	q	q	q	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number	
<a href="#">C 03152</a>		CUB	ED	Shallow	3	4	4	26	22S	31E	618250	3580606*		3186	06/01/2005	06/07/2005	06/10/2005	938		BROCKMAN, BERNARD J.	1184
<a href="#">C 02939</a>		C	LE		3	3	1	19	22S	32E	620234	3583042*		4484	02/09/2003	02/13/2003	03/17/2003	280			1348
<a href="#">C 03749 POD1</a>		CUB	LE	Shallow	3	4	4	07	23S	32E	616974	3575662		4743	07/10/2014	08/06/2014	09/11/2014	865	639	RANDY STEWART	331

Record Count: 3

UTMNA83 Radius Search (in meters):

Easting (X): 620712

Northing (Y): 3578582.751

Radius: 5000

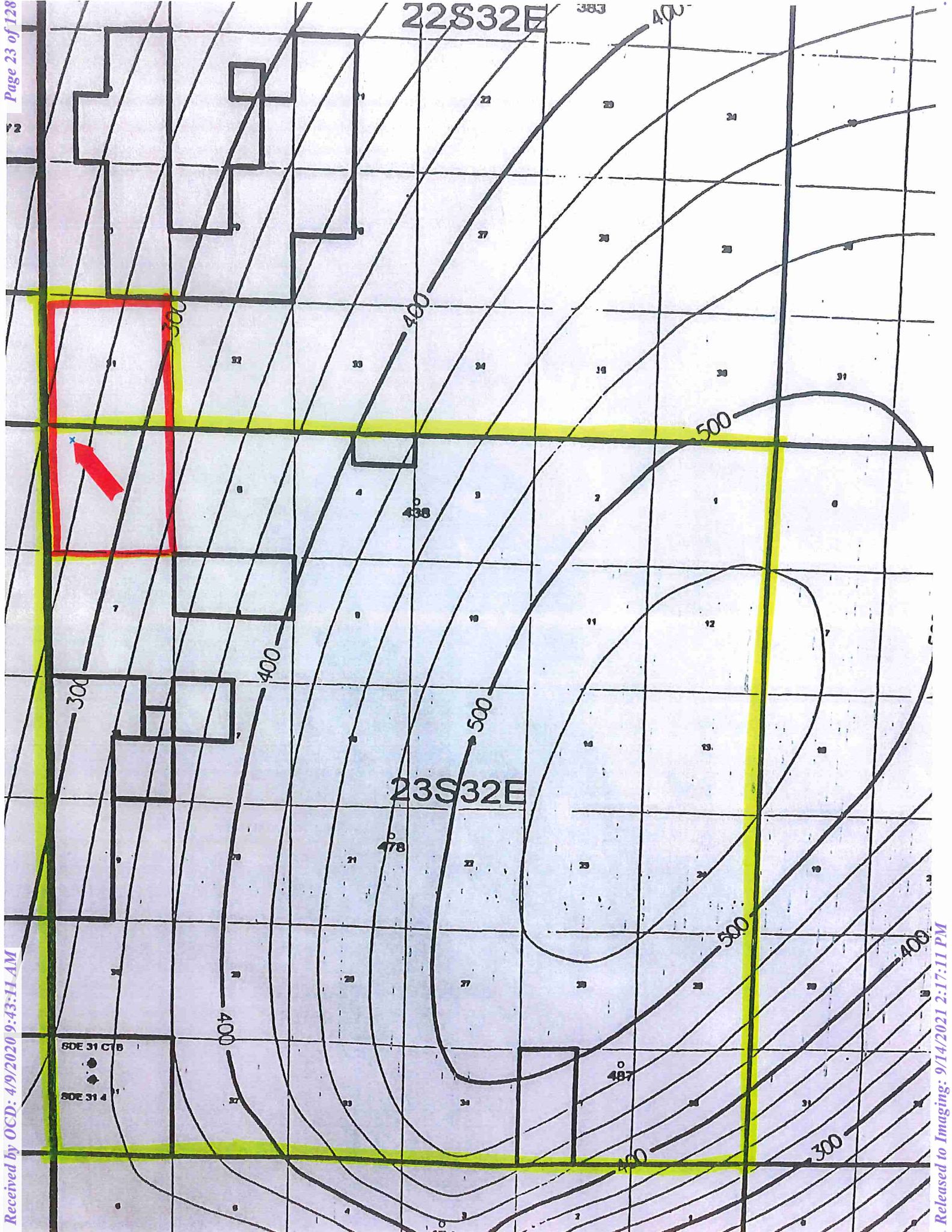
\*UTM location was derived from PLSS - see Help

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

7/10/19 1:29 PM

WELLS WITH WELL LOG INFORMATION





## 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



Map Unit Description: Maljamar and palomas fine sands, 0 to 3 percent slopes---Lea County,  
New Mexico

*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)*



Map Unit Description: Maljamar and palomas fine sands, 0 to 3 percent slopes---Lea County,  
New Mexico

---

*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



# National Flood Hazard Layer FIRMette

32°20'36.40"N

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

## Legend

SPECIAL FLOOD HAZARD AREAS	
Without Base Flood Elevation (BFE) Zone A, V, AE9 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway	

0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile (Zone X)	
Future Conditions 1% Annual Chance Flood Hazard Zone X	
Area with Reduced Flood Risk due to Levee. See Notes, Zone X	
Area with Flood Risk due to Levee Zone D	

OTHER AREAS OF FLOOD HAZARD	
NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRS	
OTHER AREAS	
Area of Undetermined Flood Hazard Zone X	

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

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

MAP PANELS	
Digital Data Available	
No Digital Data Available	
Unmapped	

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



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/4/2019 at 11:25:09 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

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

32°20'36.00"N

103°42'35.54"W

Feet 1,6,000 2,000 1,500 1,000 500



**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 100-year 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**

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



Page 33 of 128  
Received by OCD: 4/9/2020 9:43:11 AM  
Released to Imaging: 9/14/2021 2:17:11 PM

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

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

Form C-141  
Revised April 3, 2017

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

### Release Notification and Corrective Action

<b>OPERATOR</b>		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company Devon Energy Production Company	Contact Brody Gentry		
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-748-3371		
Facility Name Boundary Raider 6 7 Fed Com 212H (Todd Apache-Tomb Raider Lease Road)	Facility Type Oil		
Surface Owner Federal	Mineral Owner Federal	API No. 30-025-44146	

### LOCATION OF RELEASE

Unit Letter C	Section 06	Township 23S	Range 32E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

Latitude 32.337631 Longitude 103.717353 NAD83

### NATURE OF RELEASE

Type of Release Grey Water	Volume of Release 130 bbls	Volume Recovered 0 bbls
Source of Release Water Truck	Date and Hour of Occurrence April 17, 2018 9:30 AM MST	Date and Hour of Discovery April 17, 2018 9:30 AM MST
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD-Olivia Yu BLM-Shelly Tucker	
By Whom? Mike Shoemaker EHS Professional	Date and Hour April 18, 2018 9:02 AM MST	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.\*  
N/A

**RECEIVED**  
By Olivia Yu at 7:26 am, May 02, 2018


Describe Cause of Problem and Remedial Action Taken.\*

Devon was preparing to blade and repair the lease road in this area and requested a load of fresh water to be delivered to the area. The contract company showed up and unloaded their water when the Devon representative reviewed the water that was applied there was discoloration and when the trucking company was approached it was determined that they were hauling a load of grey water rather than fresh water and had applied the load of grey water. The following coordinates are the beginning point (Lat 32.337631, Long 103.717353) and the end point (Lat 32.340441, Long 103.716795) where unloading stopped. From the endpoint the released water did spread down the Devon pipeline corridor, across a portion of the E Livingston 31 Fed 7 Location and down the lease road near it. The E Livingston 31 Fed 7 is owned/ operated by Regeneration Energy Corp. and the incident was discussed with their field personnel yesterday and follow up calls will be made to keep them apprised of ongoing cleanup efforts.

Describe Area Affected and Cleanup Action Taken.\*

Approximately 130 bbls of grey water was applied to the lease road and 0 bbls were recovered. An environmental contractor will be contacted to assist with delineation and remediation efforts beginning the following day.

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

Signature: Michael Shoemaker	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Michael Shoemaker	Approved by Environmental Specialist: 	
Title: Environmental Professional	Approval Date: 5/2/2018	Expiration Date:
E-mail Address: mike.shoemaker@dmv.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
Date: 05/01/18	Phone: 575.748.3371	

Attach Additional Sheets If Necessary

1RP-5037

nOY1812226987

pOY1812227510

Page 34 of 128  
Received by OGD: 4/9/2020 9:43:11 AM  
Released to Imaging: 9/14/2021 2:17:11 PM

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

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

Form C-141  
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Devon Energy Production Company	Contact	Amanda Davis
Address	6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No.	575-748-0176
Facility Name	Boundary Raider 6 7 Fed Com 212H	Facility Type	Oil

Surface Owner	Federal	Mineral Owner	Federal	API No.	30-025-44146
---------------	---------	---------------	---------	---------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	6	23S	32E					Lea

Latitude 32.337631 N Longitude -103.717353 W NAD83

NATURE OF RELEASE

Type of Release Gray Water	Volume of Release 130 bbls	Volume Recovered 0 bbls
Source of Release Water Truck	Date and Hour of Occurrence April 17, 2018 9:30 PM MST	Date and Hour of Discovery April 17, 2018 9:30 PM MST
Was Immediate Notice Given? <div><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required</div>	If YES, To Whom? NMOCD-Olivia Yu BLM-Shelly Tucker	
By Whom? Mike Shoemaker- EHS Professional	Date and Hour April 18, 2018 9:02 AM	
Was a Watercourse Reached? <div><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</div>	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.\* N/A

Describe Cause of Problem and Remedial Action Taken.\*

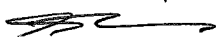
During lease road maintenance work by Devon Energy, a contract company applied approximately 130 barrels of gray water to the lease road instead of fresh water. No fluids were recovered. The beginning point coordinates are 32.337631 N and -103.717353 W and ending at 32.340441, -103.716795 W.

The flow path encompassed approximately 4/10 of a mile of the Todd Apache-Tomb Raider Lease Road, a Devon Energy pipeline corridor and the southern portion of the E Livingston 31 Fed 7 location. Site maps are attached. Talon/LPE was contracted to complete site assessment and remedial actions.

Describe Area Affected and Cleanup Action Taken.\*

A site assessment was conducted, a work plan was generated and subsequently approved by the NMOCD District 1 Office. Remediation activities were completed in accordance with the approved work plan. We respectfully request no further actions be required and closure of this incident be granted.

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

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: David J. Adkins, Agent		Approved by Environmental Specialist: <i>Bradford Billings</i>	
Title: District Manager, Talon/LPE		Approval Date: 09/14/2021	Expiration Date:
E-mail Address: dadkins@talonlpe.com		Conditions of Approval:	
Date: 4/05/2019 Phone: 575-441-4835		Attached <input type="checkbox"/>	

Attach Additional Sheets If Necessary

nOY1812226987



## APPENDIX V

### LABORATORY RESULTS



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

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\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

TALON LPE  
 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)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	04/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 112 % 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	80.0	16.0	04/19/2018	ND	448	112	400	3.64	

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	04/19/2018	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 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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		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 (PII) 115 % 72-148

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	04/19/2018	ND	448	112	400	3.64	

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	04/19/2018	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 % 41-142

Surrogate: 1-Chlorooctadecane 95.2 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2325 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

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 - 2.0 (H801082-03)**

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	448	112	400	3.64	

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

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	04/19/2018	ND	448	112	400	3.64	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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 - 1 0.0 (H801082-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	04/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 117 % 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	12300	16.0	04/19/2018	ND	448	112	400	3.64	

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	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 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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 - 1 1.0 (H801082-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 (PID) 111 % 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	144	16.0	04/19/2018	ND	448	112	400	3.64		

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	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 98.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.9 % 37.6-147

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**Analytical Results For:**

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		Analyzed 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		Analyzed 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		Analyzed 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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**Analytical Results For:**

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)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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*	<b>0.051</b>	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 BTX	<0.300	0.300	04/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 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	<b>12200</b>	16.0	04/19/2018	ND	448	112	400	3.64	

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	219	110	200	1.90	
DRO >C10-C28*	<b>34.8</b>	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 % 37.6-147

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**Analytical Results For:**

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 0.5 (H801082-11)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	04/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 114 % 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	2640	16.0	04/19/2018	ND	448	112	400	3.64	

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	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

Surrogate: 1-Chlorooctadecane 95.2 % 37.6-147

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**Analytical Results For:**

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 RL	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		Analyzed 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, 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	04/19/2018	ND	432	108	400	0.00		

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**Analytical Results For:**

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 - 3 0.0 (H801082-14)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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*	<b>0.061</b>	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
<b>Total Xylenes*</b>	<b>0.230</b>	0.150	04/19/2018	ND	6.31	105	6.00	1.00	
Total BTX	<0.300	0.300	04/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 114 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>43200</b>	16.0	04/19/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 37.6-147

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**Analytical Results For:**

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 - 3 1.0 (H801082-15)**

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 (PIE) 115 % 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	752	16.0	04/19/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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

Surrogate: 1-Chlorooctadecane 98.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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 - 3 2.0 R (H801082-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed 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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*Coley D. Keene*

Coley D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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 - 4 0.0 (H801082-17)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 (PIE) 111 % 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		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*	<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

Surrogate: 1-Chlorooctadecane 83.2 % 37.6-147

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**Analytical Results For:**

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 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 - 4 1.0 (H801082-18)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	04/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 115 % 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		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*	<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 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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 - 4 2.0 R (H801082-19)**

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	432	108	400	0.00	

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*Celestine D. Keene*

Celestine D. Keene, Lab Director/Quality Manager

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**Analytical Results For:**

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 - 5 0.0 (H801082-20)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	2.33	0.300	04/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 137 % 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		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*	12.7	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 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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 - 5 0.5 (H801082-21)**

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 (PIE) 114 % 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		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*	<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

Surrogate: 1-Chlorooctadecane 88.1 % 37.6-147

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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 - 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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
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 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 - 6 0.0 (H801082-23)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.064</b>	0.050	04/19/2018	ND	2.03	102	2.00	0.541	
<b>Toluene*</b>	<b>0.437</b>	0.050	04/19/2018	ND	2.12	106	2.00	0.694	
<b>Ethylbenzene*</b>	<b>0.765</b>	0.050	04/19/2018	ND	2.16	108	2.00	0.805	
<b>Total Xylenes*</b>	<b>2.48</b>	0.150	04/19/2018	ND	6.31	105	6.00	1.00	
<b>Total BTEX</b>	<b>3.75</b>	0.300	04/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 147 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>60800</b>	16.0	04/19/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2018	ND	219	110	200	1.90	
<b>DRO &gt;C10-C28*</b>	<b>12.5</b>	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

Surrogate: 1-Chlorooctadecane 92.3 % 37.6-147

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**Analytical Results For:**

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 - 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 % 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	12000	16.0	04/19/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 37.6-147

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**Analytical Results For:**

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 - 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		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		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		Analyzed 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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**Analytical Results For:**

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 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 - 7 0.0 (H801082-29)**

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 (PIE) 113 % 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	11600	16.0	04/19/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 37.6-147

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**Analytical Results For:**

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 - 7 1.0 (H801082-30)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	04/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed 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	

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	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 % 41-142

Surrogate: 1-Chlorooctadecane 95.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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 - 7 2.0 (H801082-31)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
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		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	432	108	400	0.00	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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	

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Celest D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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 - 8 0.0 (H801082-34)**

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) 113 % 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	176	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	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 % 37.6-147

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**Analytical Results For:**

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 - 8 1.0 R (H801082-35)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	04/19/2018	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 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	48.0	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	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 % 37.6-147

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**Analytical Results For:**

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		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) 113 % 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	19600	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	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 % 41-142

Surrogate: 1-Chlorooctadecane 93.5 % 37.6-147

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**Analytical Results For:**

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 1.0 (H801082-37)**

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) 112 % 72-148

Chloride, SM4500CI-B		mg/kg	Analyzed 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	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*	<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 % 41-142

Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147

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**Analytical Results For:**

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 2.0 (H801082-38)**

Chloride, SM4500Cl-B		mg/kg		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed By: AC					
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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**Analytical Results For:**

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 - 10 0.0 (H801082-40)**

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) 96.3 % 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	18200	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 92.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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 - 10 1.0 (H801082-41)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
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		Analyzed 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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**Analytical Results For:**

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 - 11 0.0 (H801082-43)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	04/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 96.8 % 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	9800	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 96.5 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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 - 11 1.0 (H801082-44)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	04/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 94.7 % 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	144	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 93.8 % 41-142

Surrogate: 1-Chlorooctadecane 92.0 % 37.6-147

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**Analytical Results For:**

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 - 11 2.0 (H801082-45)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/19/2018	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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 0.0 (H801082-48)**

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 (PIE) 94.3 % 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	11800	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 89.2 % 41-142

Surrogate: 1-Chlorooctadecane 84.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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 1.0 (H801082-49)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	04/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 94.5 % 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 % 41-142

Surrogate: 1-Chlorooctadecane 94.3 % 37.6-147

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**Analytical Results For:**

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		Analyzed 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		Analyzed By: AC						
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		Analyzed 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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**Analytical Results For:**

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 0.0 (H801082-53)**

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) 95.0 % 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	20000	16.0	04/20/2018	ND	416	104	400	0.00	QM-07
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*	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

Surrogate: 1-Chlorooctadecane 78.5 % 37.6-147

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**Analytical Results For:**

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		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) 93.5 % 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	11400	16.0	04/20/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 41-142

Surrogate: 1-Chlorooctadecane 74.0 % 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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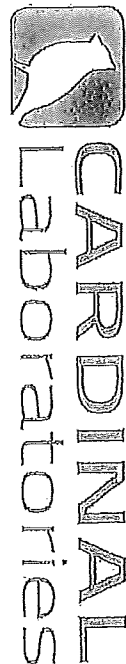
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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: Talon/LPE		P.O. #:		ANALYSIS REQUEST	
Project Manager: Kimbly, Liben		Company: Talon/LPE			
Address: 408 W. Texas Ave.		Attn:			
City: Artesia		State: NM Zip: 88210			
Phone #: 575-746-8768		Fax #: 575-746-8905			
Project #: 70794 265. e1		Project Owner: Decker			
Project Name: Todd Apache - Tomb Raider Lake Rd		City:			
Project Location: Eddy Co		State: Zip:			
Sampler Name: Kim Liben		Phone #:			
FOR LAB USE ONLY		Fax #:			
Lab I.D.	Sample I.D.	(G)RAB OR (G)OMP.			
		# CONTAINERS			
4801082	BG - 0.0	GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER:			
		ACID/BASE:			
		ICE/COOL			
		OTHER:			
		DATE	TIME		
1	2:28			BTEX	
2	2:32			Chlorides	
3	2:35			TPH extended	
4	2:35				
5	2:35				
6	2:35				
7	2:35				
8	2:35				
9	2:35				
10	2:35				
Relinquished By: Kimbly, Liben		Received By: Bob Decker			
Relinquished Date: 4-19-18		Received Date: 4-19-18			
Delivered By: (Circle One) 4.12		Sample Condition			
Sampler - UPS - Bus - Other: 408		Cool Intact			
Checked By: (Initials)		Checked By: (Initials)			
Remarks:		Fluoride Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Maryland, Hobbs, NM 88240  
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Page 3046

### ANALYSIS REQUEST

Company Name: Talon/LPE	P.O. #:
Project Manager: Kimberly Libera	Company: Talon/LPE
Address: 408 W. Texas Ave.	Attn:
City: Artesia	State: NM Zip: 88210
Phone #: 575-746-8768	Fax #: 575-746-8905
Project #: 70094-268-61	Project Owner: Barber
Project Name: Todd Houchie - Tomb Raider Laser Rd	City:
Project Location: Eddy Co	State: Zip:
Sampler Name: Kim Wilcox	Phone #:
Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:												
H801082																					
21	S-5	G.S	1									4/18/10	11:40								
22		L.D R	1										11:45								
23	S-6	O.S	1										12:00								
24		O.S	1										12:05								
25		L.C	1										12:05								
26		2.C	1										12:09								
27		3.0	1										12:13								
28		4.0	1										12:17								
29	S-7	O.D	1										12:20								
30		L.D	1										12:23								

FOR USE ONLY  
FOR LAB USE ONLY

Relinquished By: <i>Kimberly Libera</i>	Date: <i>4/19/10</i>	Received By: <i>Barb Barber</i>	Date: <i>4/19/10</i>
Delivered By: (Signature) <i>Kimberly Libera</i>	Time: <i>4:10</i>	Sample Condition: <i>Good</i>	Intact: <i>Yes</i>
Sampler - UPS - Ems - Other: <i>Cardinal</i>	Time: <i>4:05</i>	Checked By: <i>Kimberly Libera</i>	Initials: <i>KL</i>

Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: _____
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: _____
REMARKS:	

*PUSH*

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





# CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

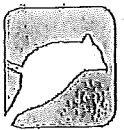
101 East Winstead, Krebs, NM 88240  
(575) 393-2326 FAX (575) 393-2475

Page 4 of 6

### ANALYSIS REQUEST

Company Name: Talon/PE		P.O. #:		ANALYSIS REQUEST	
Project Manager: Kimbelle Wilcox		Company: Talon/PE			
Address: 408 W. Texas Ave.		Attn:			
City: Artesia		State: NM Zip: 88210			
Phone #: 575-746-8768		Fax #: 575-746-8905			
Project #: 761994-265.61		Project Owner: Deussen			
Project Name: Todd Houchie - Tamb Rader house Rd		City:			
Project Location: Baldy City		State: Zip:			
Sampler Name: Kim Wilcox		Phone #:			
FOR LAB USE ONLY		Fax #:			
Lab ID:	Sample ID:	(C)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER
4801082					
31	5-7	2.0			
32		3.0			
33		4.0			
34	5-8	0.0			
35		1.0			
36	5-9	0.0			
37		1.0			
38		2.0			
39		3.0			
40	5-10	0.0			
Relinquished By: Kim Wilcox		Received By: Paul Fager			
Relinquished By: Kim Wilcox		Received By: Paul Fager			
Delivered By: (Circle One) Paul Fager		Sample Condition: Cool Intact			
Sampler - UPS - Bus - Other: Polymerized		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Remarks: PUSN		Fluoride Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>			
		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>			
		Add'l Phone #:			
		Add'l Fax #:			

BTEX  
Chlorides  
TPH extended



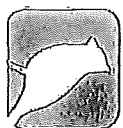
# CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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# CARDINAL Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	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		Analyzed 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		Analyzed 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		Analyzed 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)**

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	04/27/2018	ND	448	112	400	3.64	

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/27/2018	ND	416	104	400	0.00	

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

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	04/27/2018	ND	416	104	400	0.00	

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

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	04/27/2018	ND	416	104	400	0.00	

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

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	04/27/2018	ND	416	104	400	0.00	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TALON LPE  
 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		Analyzed 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		Analyzed 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 1' (H801167-12)**

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	04/27/2018	ND	416	104	400	0.00	

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

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	04/27/2018	ND	416	104	400	0.00	

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

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	04/27/2018	ND	416	104	400	0.00	

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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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Highland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2475

## ANALYSIS REQUEST

Company Name: Talon/PE		P.O. #:	
Project Manager: D. Adkins		Company: Talon/PE	
Address: 408 W. Texas Ave.		Attn:	
City: Artesia		Address:	
Phone #: 575-746-8768		City:	
Fax #: 575-746-8905		State:	
Project #: 100144.268.01		Zip:	
Project Name: Todd G. Galt, Tech. Knives, Grey Wirtz		Phone #:	
Project Location: New County		Fax #:	
Sample Name: S. Galt		PRESERVATION	
FOR LAB USE ONLY		SAMPLING	
Lab ID:	Sample ID:	(G)RAB OR (G)OMP.	
H801167		# CONTAINERS	
		GROUNDWATER	
		WASTEWATER	
		SOIL	
		OIL	
		SLUDGE	
		OTHER:	
		ACID/BASE:	
		ICE/COOL	
		OTHER:	
		DATE	
		TIME	
1	5-1	6-1	1100
2	5-1	1	1102
3	5-3	3	1104
4	5-3	4	1105
5	5-3	4	1108
6	5-5	2	1110
7	5-6	5	1112
8	5-7	5	1114
9	5-10	9	1116
10	5-10	3	1118

DELIVERED BY: (Circle One) ☒ UPS ☐ BUS ☐ OTHER: 3.72/3.652

RECEIVED BY: *Debi Henderson*

REMARKS: *Rush*

PHOTO RESULT: ☐ YES ☐ NO ☐ YES ☐ NO

ANALYST PHONE #: *1062*

ANALYST FAX #: *1062*





# CARDINAL Laboratories

2 of 2  
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2475

Company Name: Talon/PE		P.O. #:		ANALYSIS REQUEST										
Project Manager: W. Adkins		Company: Talon/PE												
Address: 408 W. Texas Ave.		Attn:												
City: Artesia		State: NM Zip: 88210												
Phone #: 575-746-8768		Fax #: 575-746-8905												
Project #: 400744 168.01		Project Owner: Nelson												
Project Name: Todd Quache, Tomb Raider Grey Matter		State: Zip:												
Project Location: New County		Phone #:												
Sample Name: Ground		Fax #:												
FOR LAB USE ONLY		MATRIX		PRESERV. SAMPLING										
Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME
4821167	5-10 5'	5-1	1	1	1	1	1	1	1	1	1	1	4-25-18	1120
11	5-13 1'	1	1	1	1	1	1	1	1	1	1	1	1123	1
12	5-13 3'	1	1	1	1	1	1	1	1	1	1	1	1124	1
13	5-13 5'	1	1	1	1	1	1	1	1	1	1	1	1125	1
14	5-13 5'	1	1	1	1	1	1	1	1	1	1	1	1126	1
REMARKS: Chlorides														
Fush														

DELIVERED BY: (Circle One) ☒ Driver ☐ Other ☐ 3.72/3.45°C

Sample Condition: ☒ Good ☐ Poor

Reinquired By: *W. Adkins* Date: *4-25-18* Time: *16:00*

Received By: *W. Adkins*

Phone Results: ☐ Yes ☐ No ☐ Add'l Phone #:

Fax Results: ☐ Yes ☐ No ☐ Add'l Fax #:



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

January 15, 2019

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BOUNDARY 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\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

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		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	3.77	

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

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

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

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	01/14/2019	ND	416	104	400	3.77	

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

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	01/14/2019	ND	416	104	400	3.77	

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\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TALON LPE  
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:	BOUNDARY 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, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2019	ND	416	104	400	3.77	

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/14/2019	ND	416	104	400	3.77	

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/14/2019	ND	416	104	400	3.77	

**Sample ID: S-14 (H900076-08)**

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

**Sample ID: S-15 (H900076-09)**

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	01/14/2019	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
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-16 (H900076-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/14/2019	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		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		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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**Analytical Results For:**

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:	BOUNDARY 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, 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-22 (H900076-16)**

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	0.00	

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

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	0.00	

**Sample ID: S-24 (H900076-18)**

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	

**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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

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

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

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

**Sample ID: S-28 (H900076-22)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2019	ND	416	104	400	0.00	

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

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	01/14/2019	ND	416	104	400	0.00	

**Sample ID: S-30 (H900076-24)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/14/2019	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	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, 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	01/14/2019	ND	416	104	400	0.00	

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

Chloride, SM4500CI-B		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, 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	01/14/2019	ND	416	104	400	0.00	

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

Chloride, SM4500CI-B		mg/kg		Analyzed 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, SM4500CI-B		mg/kg		Analyzed 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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/10/2019	Sampling Date:	01/09/2019
Reported:	01/15/2019	Sampling Type:	Soil
Project Name:	BOUNDARY 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, 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	0.00	

**Sample ID: S-41 (H900076-31)**

Chloride, SM4500Cl-B		mg/kg		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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, SM4500Cl-B		mg/kg		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		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	

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Celey D. Keene, Lab Director/Quality Manager



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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

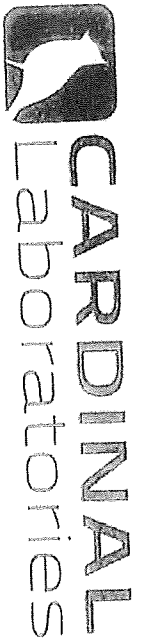
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2475

ANALYSIS REQUEST

Company Name: <u>TA/AN LLP</u>		P.O. #: <u>701337.003.01</u>	
Project Manager: <u>DAVID ADKINS</u>		Company: <u>TA/AN LLP</u>	
Address: <u>408 W. TEXAS AVE</u>		Attn: <u>D. ADKINS</u>	
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Address:	
Phone #: <u>575.441.4835</u> Fax #:		City:	
Project #: <u>701337.003.01</u> Project Owner: <u>Deaton</u>		State: Zip:	
Project Name: <u>Bounded Raider 6 7 Fed Cam 2124</u>		Phone #:	
Project Location: <u>Lea County, NM</u>		Fax #:	
Sampler Name: <u>Mike Collier</u>		SAMPLING	
FOR LAB USE ONLY		MATRIX	
Lab I.D.		Sample I.D.	
H900076		4'	
1		5'-6	
2		5'-6	
3		5'-6	
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7		5'-6	
8		5'-6	
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436		5'-15	
437			



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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

**Company Name:** TAC/NO LPE

**Project Manager:** DAVID ADKINS

**Address:** 408 W. TEXAS AVE

**City:** Artesia **State:** NM **Zip:** 88210

**Phone #:** 575.441.4935 **Fax #:**

**Project #:** 701337.003.01 **Project Owner:** DEUAN

**Project Name:** Boundary Raider 6 7 Fed Cam 2124

**Project Location:** Lea County, NM

**Sampler Name:** Mike Collier / Rudy Medrano

**FOR LAB USE ONLY**

**P.O. #:** 701337.003.01

**Company:** TAC/NO LPE

**Attn:** D. ADKINS

**Address:**

**City:**

**State:** **Zip:**

**Phone #:**

**Fax #:**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
4906076	5-26	G	1								11/9/19	1107	
2024	5-27											1105	
2122	5-28											1100	
2223	5-29											1055	
2324	5-30											1050	
2425	5-31											1040	
2526	5-35											1035	
2627	5-36											1030	
2728	5-38											1025	
2829	5-39												
2930													

**RELINQUISHED BY:** [Signature]

**DATE:** 1-10-19

**TIME:**

**RECEIVED BY:** [Signature]

**DATE:** 12-09

**TIME:**

**DELIVERED BY:** (Circle One) **9.66**

**SAMPLER - UPS - BUS - OTHER:** **#97**

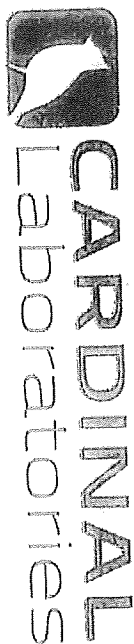
**SAMPLE CONDITION:** Cool ☒ Intact ☐

**CHECKED BY:** (Initials) **Y.O.**

**REMARKS:**

P. 3 of 4





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>Telad LP</b>		P.O. #: <b>701337.003.01</b>	
Project Manager: <b>DAVID ADKINS</b>		Company: <b>TALAD LP</b>	
Address: <b>408 W. Texas Ave</b>		City: <b>D. ADKINS</b>	
City: <b>Artesia</b>		Address:	
Phone #: <b>575.441.4935</b> Fax #:		City:	
Project #: <b>701337.003.01</b> Project Owner: <b>Deura</b>		State: Zip:	
Project Name: <b>Boundary Raider 6 7 Fed Com 2124</b>		Phone #:	
Project Location: <b>Lee County, NM</b>		Fax #:	
Sampler Name: <b>Mike Collier</b> / <b>Rudy Redwood</b>		PRESERV. SAMPLING	
FOR USE ONLY			

Lab ID.	Sample ID.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME
4900076														
36 84	S-40		5										1/9/19	1147
31 38	S-41		6										1/9/19	1150
32 38	S-42		6										1/9/19	1152
33 34	S-43		6										1/9/19	1155
34	S-37												10:40	

Relinquished By: <b>Mike Collier</b> Date: <b>1-10-19</b> Time: <b>12:00</b>		Received By: <b>Randy Redwood</b> Date: <b>1-10-19</b> Time: <b>12:00</b>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
Checked By: (Initials) <b>TC</b>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: REMARKS: <b>P. 4 of 4</b>	





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

January 24, 2019

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: STANDARD OIL - BOUNDARY 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/23/2019	Sampling Date:	01/21/2019
Reported:	01/24/2019	Sampling Type:	Soil
Project Name:	STANDARD OIL - BOUNDARY 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, SM4500Cl-B		mg/kg		Analyzed 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, 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	01/24/2019	ND	432	108	400	0.00	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/24/2019	ND	432	108	400	0.00	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	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	

Cardinal Laboratories

\*=Accredited Analyte

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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

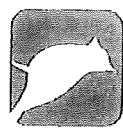
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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2475

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>Talos/LPE</b>		P.O. #: <b>Talos</b>		ANALYSIS REQUEST																											
Project Manager: <b>D. Adkins</b>		Company:																													
Address: <b>408 W. Texas</b>		Attn:																													
City: <b>Artesia</b>		Address:																													
State: <b>NM</b>		City:																													
Zip: <b>8821</b>		State:																													
Project #: <b>701337.003.01</b>		Project Owner:																													
Project Name: <b>Standard Oil - Boundary Leaker</b>		City:																													
Project Location:		State:																													
Sample Name: <b>Carlos Jaramillo / Office</b>		Phone #:																													
FOR LAB USE ONLY		Fax #:																													
Lab I.D. <b>Sample I.D.</b>		MATRIX		PRESERV.		SAMPLING																									
H900241		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME					
1 S-41A 1.5'		51		1																				10/19				TOTAL CHLORIDES			
2 S-41A 2.0'		51		1																				11/21							
3 S-41A 3.0'		51		1																				11/21							
4 S-43A 2.0'		51		1																				11/21							

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Relinquished By: **[Signature]** Date: **11/19** Received By: **[Signature]** Date: **11/19**  
Time: **4 PM** Time: **2:31 PM**

Relinquished By: **[Signature]** Date: **11/19** Received By: **[Signature]** Date: **11/19**  
Time: **11:53** Time: **2:31 PM**

Delivered By: (Circle One) **UPS** **2.90 / #97** Sample Condition: **Intact** **Yes** ☒ **No** ☐  
Sampler - UPS - Bus - Other: **2.90 / #97** ☒ **Yes** ☐ **No** ☐

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

REMARKS:

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





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

January 31, 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 01/28/19 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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/28/2019  
Reported: 01/31/2019  
Project Name: BOUNDARY RAIDER  
Project Number: 702248.029.01  
Project Location: STANDARD ENERGY - LEA COUNTY, NM

Sampling Date: 01/24/2019  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**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
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) 102 % 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	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 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/28/2019  
Reported: 01/31/2019  
Project Name: BOUNDARY RAIDER  
Project Number: 702248.029.01  
Project Location: STANDARD ENERGY - LEA COUNTY, NM

Sampling Date: 01/24/2019  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**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 (PIL) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	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 75.0 % 41-142

Surrogate: 1-Chlorooctadecane 66.7 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TALON LPE  
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:	BOUNDARY 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)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2019	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 BTX	<0.300	0.300	01/29/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	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 87.2 % 41-142

Surrogate: 1-Chlorooctadecane 79.4 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	01/28/2019	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)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2019	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 BTX	<0.300	0.300	01/29/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/29/2019	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 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.7 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/28/2019	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	
Toluene*	<0.050	0.050	01/30/2019	ND	1.95	97.5	2.00	0.688	
Ethylbenzene*	<0.050	0.050	01/30/2019	ND	1.96	97.9	2.00	0.0573	
Total Xylenes*	<0.150	0.150	01/30/2019	ND	5.96	99.3	6.00	0.420	
Total BTEX	<0.300	0.300	01/30/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/29/2019	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 94.5 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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\*=Accredited Analyte

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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

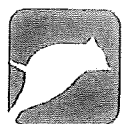
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>TRACON LPE</b>				<b>BILETO</b>				<b>ANALYSIS REQUEST</b>			
Project Manager: <b>CHRIS JONES</b>				P.O. #: <b>702248, 029, 01</b>							
Address: <b>408. W. TEXAS AVE</b>				Company: <b>TRACON LPE</b>							
City: <b>ALBUQUERQUE</b>				Attn: <b>D. ADKINS</b>							
Phone #: <b>575-631-6977</b>				Address:							
State: <b>NM</b> Zip: <b>88210</b>				City:							
Project #: <b>702248, 029, 01</b>				State: Zip:							
Project Name: <b>BOUNDARY RANGER</b>				Phone #:							
Project Location: <b>LEA COUNTY</b>				Fax #:							
Sampler Name: <b>MICHAEL COOPER</b>											
FOR LAB USE ONLY											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER	
H9002299		S-34 S. SIDEWALK		✓		✓		SOIL		OIL	
								SLUDGE		OTHER :	
								ACID/BASE:		ICE / COOL	
								OTHER :			
								DATE		TIME	
								1/24/19		10:30	
1		S-32 N. SIDEWALK						10:30		✓	
2		S-33 CENTER						10:25		✓	
3		S-33 CENTER 1'						10:50		✓	
4		S-33 CENTER 2'						10:55		✓	
5		S-33 CENTER 3'									

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Relinquished By: <b>MAL R. L.</b>		Date: <b>1-28-19</b>		Received By: <b>Samanta Chakraborty</b>	
Time: <b>12:40</b>		Date: <b>1-28-19</b>		Time: <b>12:40</b>	
Reinquinshed By:		Received By:		Time:	

Delivered By: (Circle One)		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>		(Initials)	
14800 497		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		✓	

REMARKS:

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

Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

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





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

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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/30/2019	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					
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 (PIC) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	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*	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 92.5 % 37.6-147

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/30/2019  
Reported: 02/06/2019  
Project Name: BOUNDARY RAIDER  
Project Number: 701337.003.01  
Project Location: STANDARD ENERGY - LEA COUNTY, NM

Sampling Date: 01/28/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

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

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	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, 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		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

Surrogate: 1-Chlorooctadecane 90.4 % 37.6-147

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/30/2019	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- 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, 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		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 % 37.6-147

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\* = Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager





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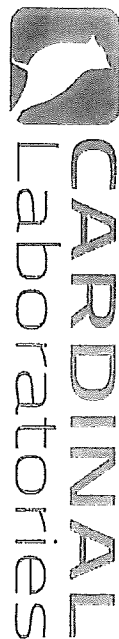
Notes and Definitions

- 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

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>TALON JCE</u>		P.O. #: <u>701337.003.01</u>	
Project Manager: <u>CHES JONE</u>		Company: <u>TALON JCE</u>	
Address: <u>408 W. TEXAS AVE</u>		Attn: <u>C. JONES</u>	
City: <u>ALBUQUERQUE</u>		Address:	
State: <u>NM</u> Zip: <u>88210</u>		City:	
Phone #: <u>505-631-6477</u> Fax #:		State: Zip:	
Project #: <u>701337.003.01</u> Project Owner: <u>STANDARD ENERGY</u>		Phone #:	
Project Name: <u>BOUNDARY RANGER</u>		Fax #:	
Project Location: <u>LEA COUNTY</u>			
Sampler Name: <u>MICHAEL COOPER</u>			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			ICE / COOL	OTHER :	TPH	BTEX
A900344	5-44 CENTRE 1.5'	✓	1			✓						11:41 AM	12:10 PM	✓	✓	✓
	5-45 WEST SIDEWALK 1.5'		1										12:15 PM	✓	✓	✓
	5-46 EAST SIDEWALK 1.5'		1										12:20 PM	✓	✓	✓

Relinquished By: <u>Michael Cooper</u>	Date: <u>11.20</u>	Time: <u>1:30-1:19</u>	Received By: <u>Juanita Delgado</u>	Date: <u>11.20</u>	Time: <u>1:30-1:19</u>
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>3:42 PM</u>	Sample Condition Cool, Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>JD</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: <u>70</u>
REMARKS:					

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



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

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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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**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:	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		Analyzed 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, 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/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	

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\*—Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	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, 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	02/13/2019	ND	416	104	400	3.92	

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

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

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

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	02/13/2019	ND	416	104	400	3.92	

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

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	02/13/2019	ND	416	104	400	3.92	

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	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, 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	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		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 - 32 1' (H900503-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/13/2019	ND	400	100	400	3.92	

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### Notes and Definitions

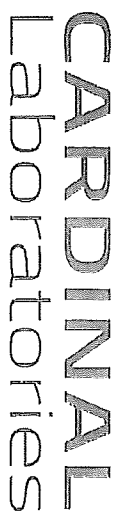
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 4900

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 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