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Remediation and Closure Report

Ruthless Riser
Lea County, New Mexico
Incident No. nAPP2133655230

Prepared For:

EOG Resources Inc.
5509 Champions Drive
Midland, TX 79706

Prepared By:

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

December 28, 2021



Mike Bratcher
NMOCD
1301 W. Grand
Artesia, NM 88210

Jim Amos
BLM
620 E. Greene St.
Carlsbad, NM 88220

Subject: **Remediation and Closure Report**
Ruthless Riser
Reuse Water Lay Flat Line
Lea County, New Mexico
Incident No. nAPP2133655230

Dear Mr. Bratcher,

EOG Resources contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remedial action and closure request is presented herein.

Site Information

The Ruthless Riser Lay Flat Line is located approximately forty (40) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter P, Section 1, Township 25 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.15360 and -103.62039. A Site Location Map 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 Pyote and Maljamar fine sands with 0 to 3 percent slopes. The referenced soil data is presented in [Appendix II](#). Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology consists of gravelly fine sandy eolian deposits derived from sedimentary rock, Holocene to middle Pleistocene in age. Drainage courses in this area are typically well drained.

Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 90-feet below ground surface (bgs). See [Appendix II](#) for the referenced groundwater depth. Further research of the Bureau of Land Management Karst data indicates that this site is not located within a potential Karst area.

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

Approximate Depth to Groundwater		90 Feet/bgs
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole or a playa lake	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 1000 feet of any freshwater well or spring	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of a wetland	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within an unstable area	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within a 100-year floodplain	

Because the release occurred in a non-production area, the clean-up criteria for this site is as follows.

Table I Closure Criteria for Soils Impacted by a Release			
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Total Chlorides	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

According to the C-141 Release Notification in [Appendix III](#), the cause of release was due to an employee driver backing into the 12" lay flat transfer line, thereby cutting the line. This caused the release of approximately 75 bbls. of reuse water on the lease road with 40 bbls. being recovered. The site map is presented in [Appendix I](#).

Site Assessment

On December 03, 2021, Talon mobilized personnel to the site and conducted an initial site assessment of the impacted area. The impacted area was mapped and sampled. All soil samples were properly packaged, preserved, and transported to Cardinal Laboratories via chain of custody for analysis of Total Chlorides (Method SM4500Cl-B), TPH (EPA Method 8015M), and BTEX (EPA Method 8021B). Sample locations are shown on the attached site plan and the results of our sampling event are presented on the following data table.

Table I
Assessment Soil Sample Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	12/3/2021	0-1'	ND	ND	ND	ND	ND	0	3360
	12/3/2021	2'	NT	NT	NT	NT	NT	0	3800
	12/3/2021	3'	NT	NT	NT	NT	NT	0	5280
	12/3/2021	4'	ND	ND	ND	ND	ND	0	1140
S-2	12/3/2021	0-1'	ND	ND	ND	ND	ND	0	2840
	12/3/2021	2'	NT	NT	NT	NT	NT	0	3480
	12/3/2021	3'	NT	NT	NT	NT	NT	0	5280
	12/3/2021	4'	ND	ND	ND	ND	ND	0	2640
S-3	12/3/2021	0-1'	ND	ND	ND	ND	ND	0	2760
	12/3/2021	2'	NT	NT	NT	NT	NT	0	4400
	12/3/2021	3'	NT	NT	NT	NT	NT	0	5200
	12/3/2021	4'	ND	ND	ND	ND	ND	0	4160
S-4	12/3/2021	0-1'	ND	ND	ND	ND	ND	0	3600
	12/3/2021	2'	ND	ND	ND	ND	ND	0	1280
	12/3/2021	3'	ND	ND	ND	ND	ND	0	368
	12/3/2021	4'	ND	ND	ND	ND	ND	0	192
S-5	12/3/2021	0-1'	ND	ND	ND	ND	ND	0	752
	12/3/2021	2'	ND	ND	ND	ND	ND	0	240
S-6	12/3/2021	0'	ND	ND	ND	ND	ND	0	16
S-7	12/3/2021	0'	ND	ND	ND	ND	ND	0	ND
BG-1	12/3/2021	0'	ND	ND	ND	ND	ND	0	16
BG-2	12/3/2021	0'	ND	ND	ND	ND	ND	0	ND
BG-3	12/3/2021	0'	ND	ND	ND	ND	ND	0	ND
BG-4	12/3/2021	0'	ND	ND	ND	ND	ND	0	ND
LR-1	12/3/2021	0'	ND	ND	ND	ND	ND	0	368
LR-2	12/3/2021	0-1'	ND	ND	ND	ND	ND	0	1600
	12/3/2021	2' R	ND	ND	ND	ND	ND	0	128

ND=Analyte Not Detected NT=Analyte Not Tested BG=Background Sample LR=Lease Road Sample

See [Appendix VI](#) for the complete report of laboratory results.

On December 09, 2021, at the request of EOG personnel, Talon personnel returned to the Ruthless Lay Flat Line release area in order to confirmation sample the excavated area of impact. Work completed by others indicated that the impacted area had been excavated to depths from 2 feet bgs. to 6 feet bgs., as can be seen in photo documentation ([Appendix IV](#)). The excavated area was sampled on a 5-point composite basis in order to confirm that NMOCD clean-up criteria had been achieved. The results are tabled below.

Table II
Confirmation Data

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1A	12/9/2021	6'	ND	ND	ND	ND	ND	0	128
S-2A	12/9/2021	6'	ND	ND	ND	ND	ND	0	144
S-3A	12/9/2021	6'	ND	ND	ND	ND	ND	0	272
S-4A	12/9/2021	5'	ND	ND	ND	ND	ND	0	320
S-5A	12/9/2021	3'	ND	ND	ND	ND	ND	0	160
S-8A	12/9/2021	3'	ND	ND	ND	ND	ND	0	64
S-9A	12/9/2021	3'	ND	ND	ND	ND	ND	0	208
S-10A	12/9/2021	3'	ND	ND	ND	ND	ND	0	64
S-11A	12/9/2021	6'	ND	ND	ND	ND	ND	0	176
S-12A	12/9/2021	6'	ND	ND	ND	ND	ND	0	288
S-13A	12/9/2021	6'	ND	ND	ND	ND	ND	0	272
S-14A	12/9/2021	6'	ND	ND	ND	ND	ND	0	192
S-15A	12/9/2021	6'	ND	ND	ND	ND	ND	0	112
S-16A	12/9/2021	5'	ND	ND	ND	ND	ND	0	112
LR-2	12/9/2021	2'	ND	ND	ND	ND	ND	0	96
LR-3	12/9/2021	2'	ND	ND	ND	ND	ND	0	400
LR-4	12/9/2021	2'	ND	ND	ND	ND	ND	0	80
LR-5	12/9/2021	2'	ND	ND	ND	ND	ND	0	64
LR-6	12/9/2021	2'	ND	ND	ND	ND	ND	0	64
LR-7	12/9/2021	2'	ND	ND	ND	ND	ND	0	368
LR-8	12/9/2021	2'	ND	ND	ND	ND	ND	0	64
LR-9	12/9/2021	2'	ND	ND	ND	ND	ND	0	64
LR-10	12/9/2021	2'	ND	ND	ND	ND	ND	0	48
LR-W.SW	12/9/2021		ND	ND	ND	ND	ND	0	32
LR-E.SW	12/9/2021		ND	ND	ND	ND	ND	0	48
E.SW-1	12/9/2021		ND	ND	ND	ND	ND	0	ND
E.SW-2	12/9/2021		ND	ND	ND	ND	ND	0	336
W.SW-1	12/9/2021		ND	ND	ND	ND	ND	0	160
W.SW-2	12/9/2021		ND	ND	ND	ND	ND	0	160
S.SW-1	12/9/2021		ND	ND	ND	ND	ND	0	80
S.SW-2	12/9/2021		ND	ND	ND	ND	ND	0	48
S.SW-3	12/9/2021		ND	ND	ND	ND	ND	0	192
S.SW-4	12/9/2021		ND	ND	ND	ND	ND	0	192
S.SW-5	12/9/2021		ND	ND	ND	ND	ND	0	320
S.SW-6	12/9/2021		ND	ND	ND	ND	ND	0	160
N.SW-1	12/9/2021		ND	ND	ND	ND	ND	0	32
N.SW-2	12/9/2021		ND	ND	ND	ND	ND	0	368
N.SW-3	12/9/2021		ND	ND	ND	ND	ND	0	80
N.SW-4	12/9/2021		ND	ND	ND	ND	ND	0	288
N.SW-5	12/9/2021		ND	ND	ND	ND	ND	0	352
N.SW-6	12/9/2021		ND	ND	ND	ND	ND	0	48
N.SW-7	12/9/2021		ND	ND	ND	ND	ND	0	288
ND = Analyte Not Detected, LR = Lease Road, SW = Sidewall									

See [Appendix VI](#) for the complete report of laboratory results.

Remedial Actions

- The spill footprint was excavated to depths of 2 to 6 feet bgs, and to the horizontal extent that all surface staining was removed and table I soil remediation guidelines were met. Laboratory analysis confirms that NMOCD remediation guidelines for soil characterization were achieved.
- Background and sidewall samples were obtained in order to confirm horizontal delineation and remediation.
- The excavated area was backfilled with clean topsoil, restored to grade, and seeded with BLM #2 Seed mix ([Appendix V](#)).
- All contaminated soil was transported to Northern Delaware Basin, a NMOCD approved disposal facility.

Closure

Based on this site characterization, remedial actions completed, and analytical results, we request that no further actions be required, and that closure with regard to the attached 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

Rebecca S. Pons
Senior Environmental Project Manager

Attachments:

Appendix I Site Plans
Appendix II Groundwater Data, Soil Survey, Karst Map, FEMA Map
Appendix III C-141
Appendix IV Photo Documentation
Appendix V Seed Tag
Appendix VI Laboratory Data



APPENDIX I

SITE PLANS

Ruthless Lay Flat Spill

EOG Resources Inc.
Lea County, NM
Site Assessment Map

Legend



 Ruthless Lay Flat

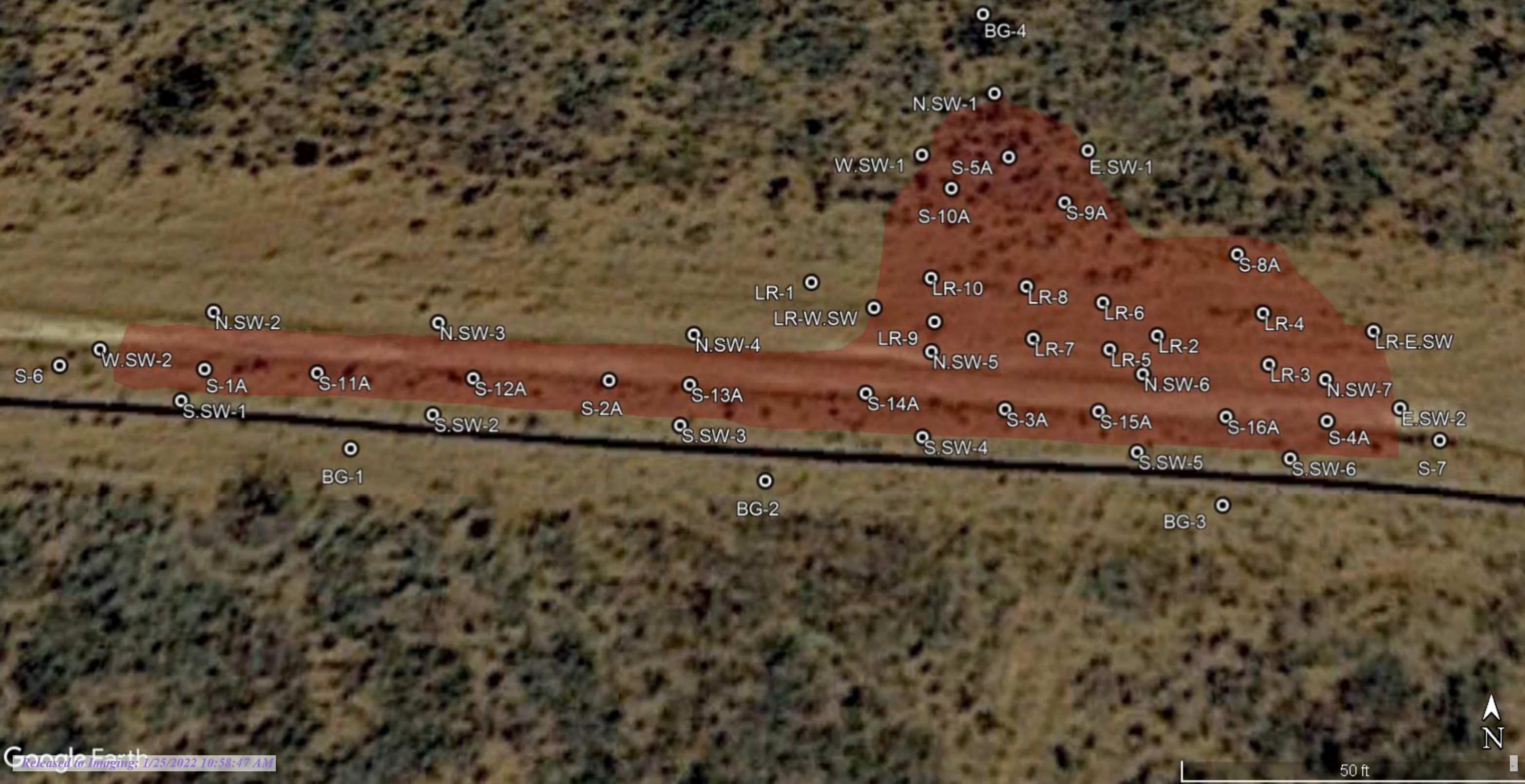
 Sample Point

 Spill Area



Legend

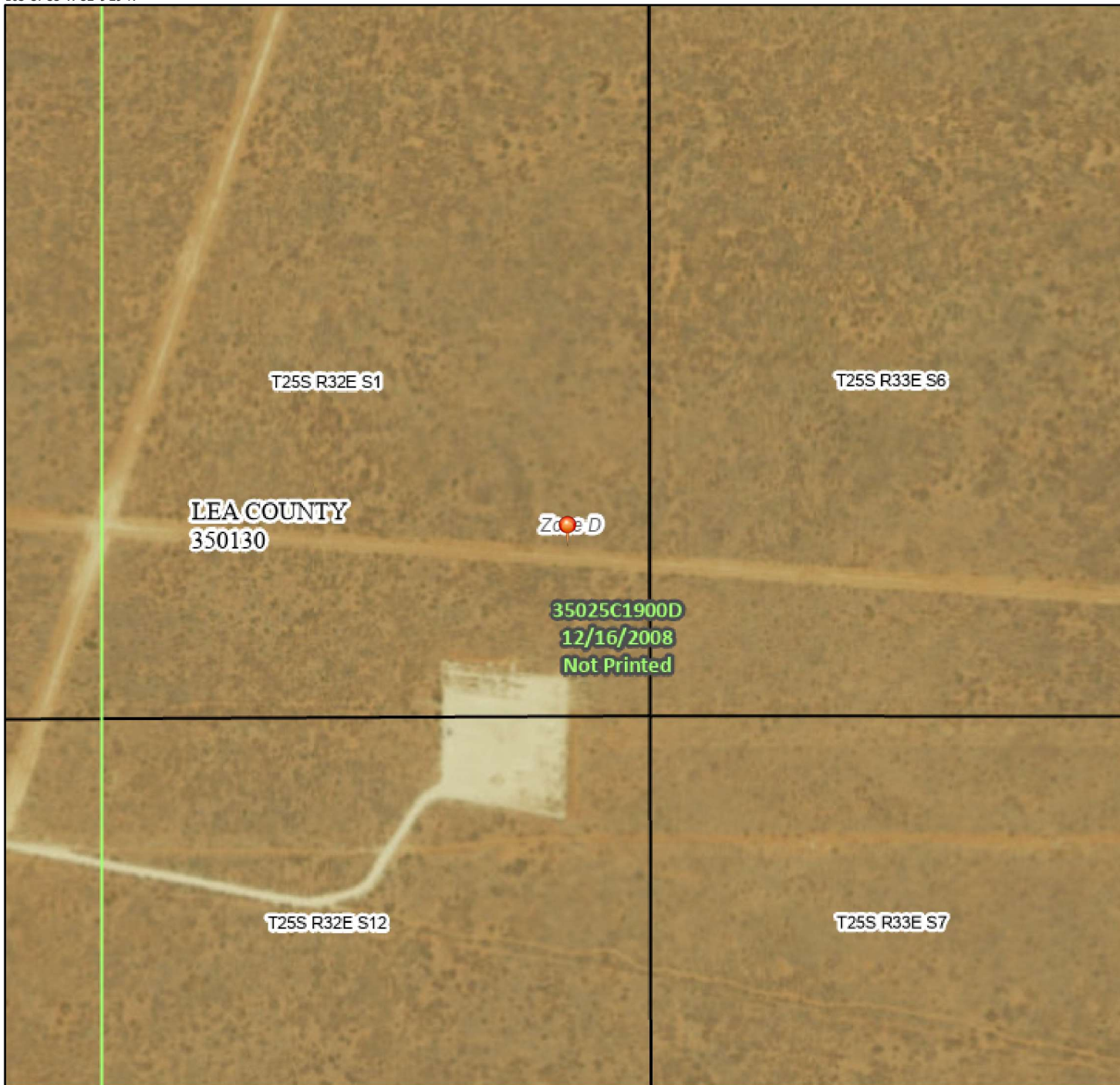
 Excavation
 Sample Point



National Flood Hazard Layer FIRMette



103°37'33"W 32°9'29"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas 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		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
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 12/6/2021 at 10:45 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.



APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

KARST MAP

TOPO MAP



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 02312		CUB	LE	1	2	1	05	25S	33E	632292	3559772	2662	150	90	60
C 02890		C	LE		2	4	29	24S	33E	633114	3562012*	4797	500		
C 02311		CUB	LE	2	3	2	33	24S	33E	634391	3560877	5029	120	70	50
C 02310		CUB	LE	2	4	2	33	24S	33E	634420	3560893	5061	120	70	50
C 02563		CUB	LE	1	4	2	33	24S	33E	634639	3560923*	5266	120		
C 02564		CUB	LE	2	4	2	33	24S	33E	634839	3560923*	5440	120		
C 04536 POD1		C	LE	1	2	2	33	24S	32E	625019	3561244	5843	500	314	186

Average Depth to Water: **136 feet**

Minimum Depth: **70 feet**

Maximum Depth: **314 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 630069.83

Northing (Y): 3558304.63

Radius: 7000

*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.

12/6/21 8:42 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
20E37	C 04536 POD1	1	2	2	33	24S	32E	625019	3561244

x

Driller License: 1706 **Driller Company:** ELITE DRILLERS CORPORATION

Driller Name: BRYCE WALLACE

Drill Start Date: 06/09/2021	Drill Finish Date: 06/10/2021	Plug Date:
Log File Date: 06/21/2021	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 4 GPM
Casing Size: 4.30	Depth Well: 500 feet	Depth Water: 314 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	235	480	Sandstone/Gravel/Conglomerate

x

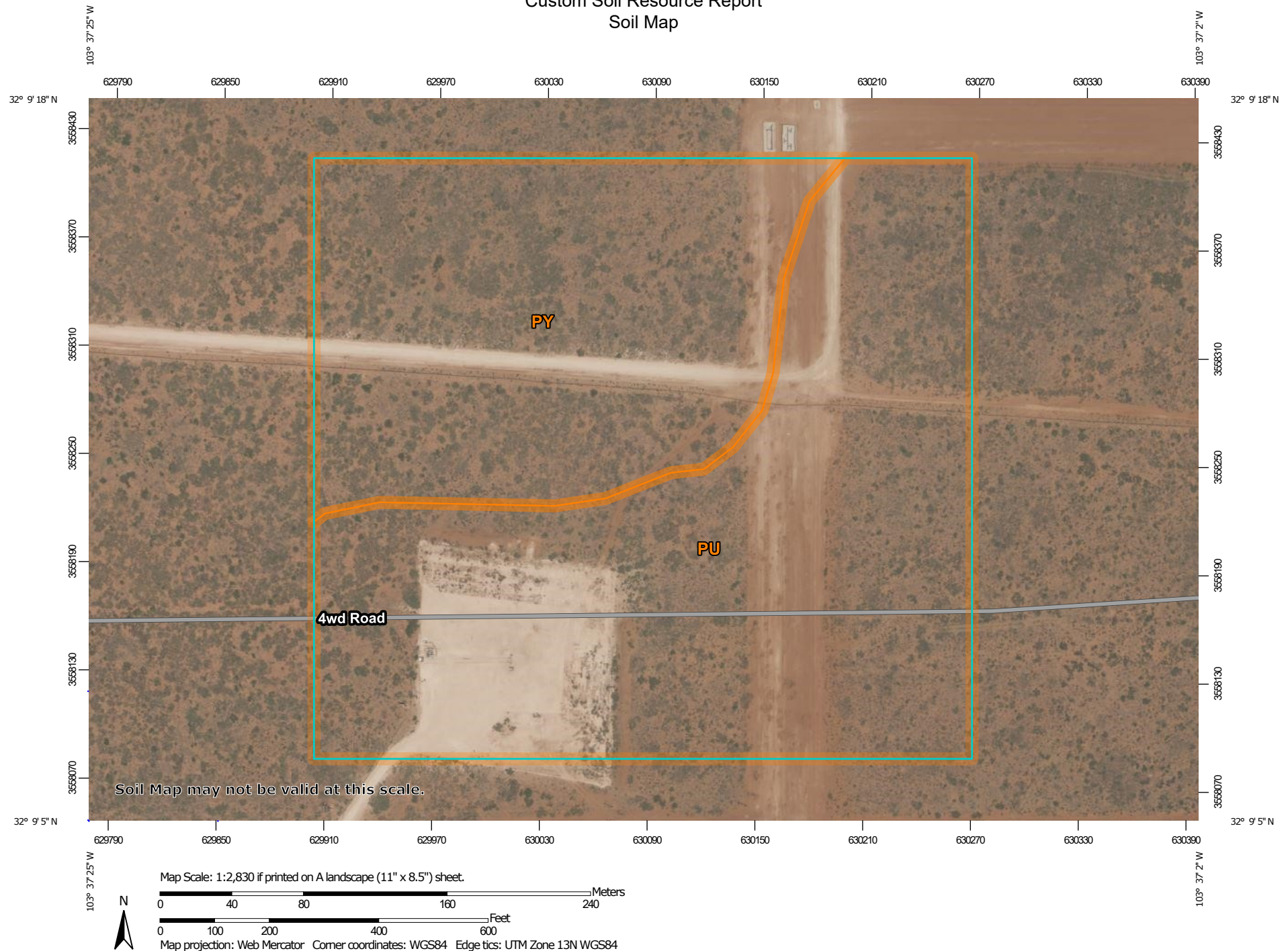
Casing Perforations:	Top	Bottom
	300	500

x

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.

12/6/21 8:43 AM


POINT OF DIVERSION SUMMARY

Custom Soil Resource Report
Soil Map

Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)


Soils

 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop


 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole

 Slide or Slip


 Sodic Spot

 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals


Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 18, Sep 10, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Custom Soil Resource Report

Lea County, New Mexico**PU—Pyote and Maljamar fine sands****Map Unit Setting**

National map unit symbol: dmqq
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Maljamar and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote**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 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Custom Soil Resource Report

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*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 content:* 5 percent*Gypsum, maximum content:* 1 percent*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*Sodium adsorption ratio, maximum:* 2.0*Available water supply, 0 to 60 inches:* Low (about 5.6 inches)**Interpretive groups***Land capability classification (irrigated):* 6e*Land capability classification (nonirrigated):* 7e*Hydrologic Soil Group:* B*Ecological site:* R042XC003NM - Loamy Sand*Hydric soil rating:* No**Minor Components****Kermit***Percent of map unit:* 10 percent*Ecological site:* R042XC022NM - Sandhills*Hydric soil rating:* No**PY—Pyote soils and Dune land****Map Unit Setting***National map unit symbol:* dmqr*Elevation:* 3,000 to 4,400 feet

Custom Soil Resource Report

Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote**Setting**

Landform: Depressions
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Description of Dune Land**Setting**

Landform: Dunes
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Custom Soil Resource Report

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Kermit

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

Maljamar, fine sand

Percent of map unit: 3 percent
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Ruthless Lay Fiat Spill

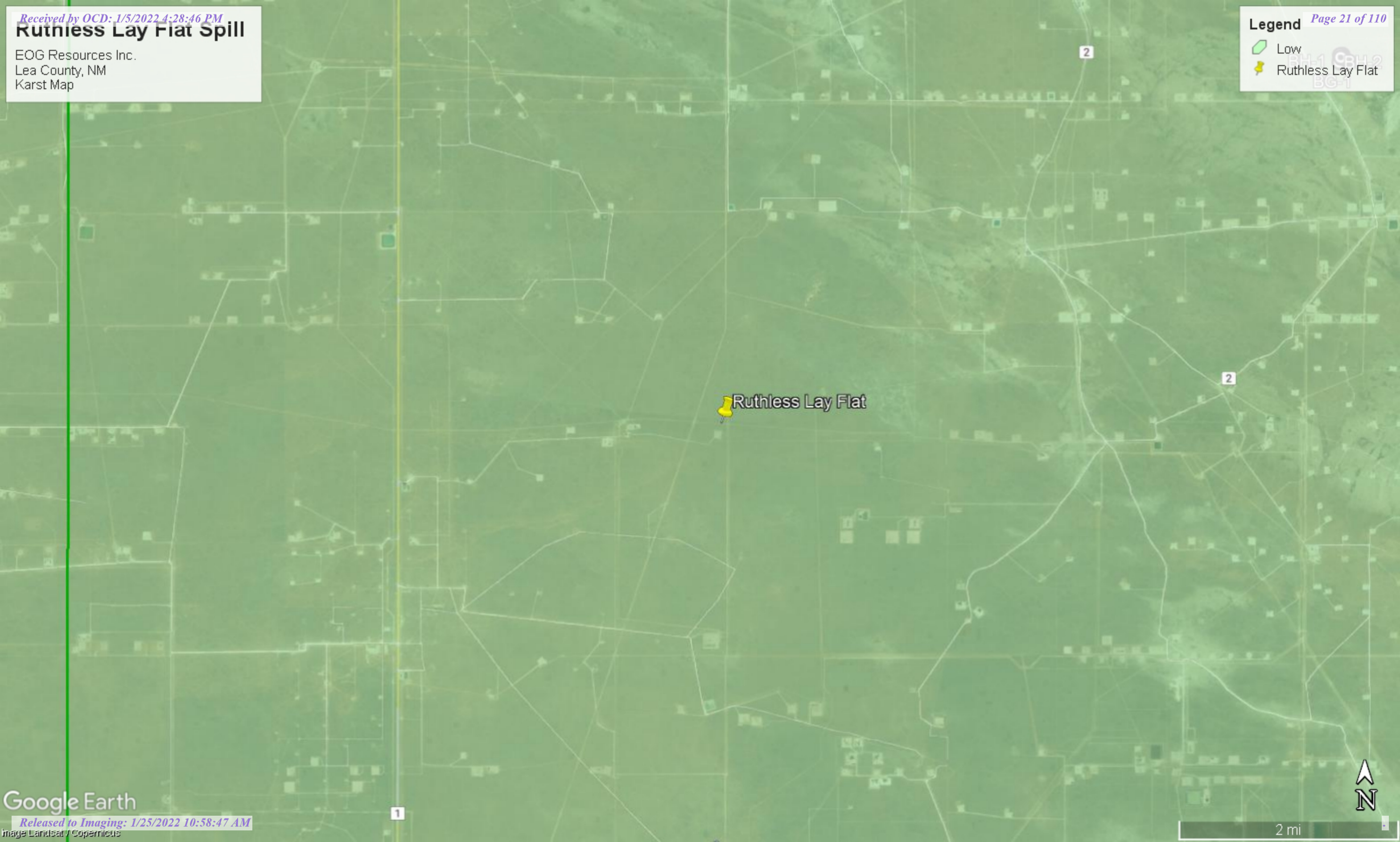
EOG Resources Inc.
Lea County, NM
Karst Map

Legend

Page 21 of 110

 Low

 Ruthless Lay Flat



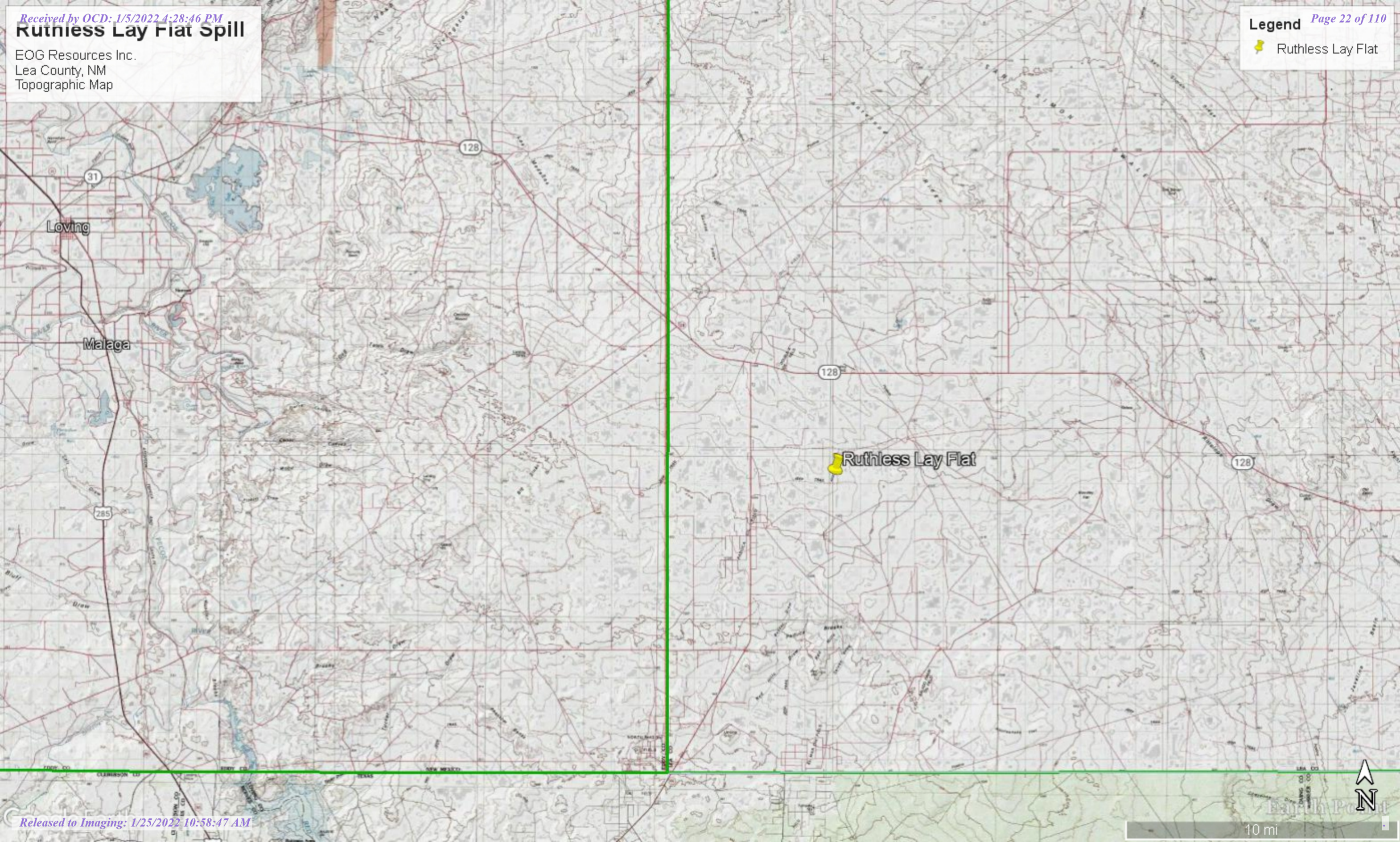
Ruthless Lay Fiat Spill

EOG Resources Inc.
Lea County, NM
Topographic Map

Legend

Page 22 of 110

 Ruthless Lay Flat



North Arrow

10 mi



APPENDIX III

C-141 FORMS

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

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2133655230
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources	OGRID 7377
Contact Name Todd Wells	Contact Telephone (432) 686-3613
Contact email Todd_Wells@eogresources.com	Incident # (assigned by OCD) nAPP2133655230
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.15360° Longitude -103.62039°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Ruthless Riser	Site Type Reuse Water Lay Flat Line
Date Release Discovered 11/26/21	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	1	25S	32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Reuse Water	Volume Released (bbls) 75	Volume Recovered (bbls) 40
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: While an employee was trying to turn around on the lease road, the driver backed into the 12" lay flat transfer line and cut the top of the line. This caused a release of approximately 75 bbls of reuse water on the lease road with 40 bbls recovered.

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? More than 25 bbls release
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, email notification to the OCD Enviro Inbox on 11/26/21.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Todd Wells</u> Title: <u>Environmental Specialist</u>
Signature: <u>Todd Wells</u> Date: <u>12-2-21</u>
email: <u>Todd_Wells@eogresources.com</u> Telephone: <u>(432) 686-3613</u>
<u>OCD Only</u> Received by: _____ Date: _____

Incident ID	nAPP2133655230
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Todd Wells Title: Environmental Specialist
Signature: Todd Wells Date: 1/5/2022
email: Todd_Wells@eogresources.com Telephone: 432-686-3613

OCD Only

Received by: Chad Hensley Date: 01/25/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Chad Hensley Date: 01/25/2022
Printed Name: Chad Hensley Title: Env. Specialist - A



APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION



Closure Report
EOG Resources, Ruthless Riser
Reuse Water Lay Flat Line



Photograph No.1 Description:

Impacted Area



Photograph No.2 Description:

Close View of Right-of-Way Impact



Photograph No.3 Description:

Excavated Area



Photograph No.4 Description:

Backfilled to Grade



APPENDIX V

SEED TAG

Barnert Seed Company Inc.

1897 CR 1018 Muller, Tex. TX 79347

(800) 262-9992

Parental Involvement

BLM #2 JOAT

© 2013 by the author(s).

Kind & Variety	Pure Seed	Germination	Dormant	Hard Seed	Growth
Wheatgrass Seed, <i>Taraxacum officinale</i>	17.5%	23.00%	13.00%	6.00%	14.00%
Orchardgrass Seed, <i>Dactylis glomerata</i>	23.14%	24.30%	11.00%	6.00%	14.00%
Timothy Seed, <i>Phleum pratense</i>	23.86%	32.30%	7.00%	6.00%	14.00%

Philly: \$1.90. Best Market: 9.75%

Organ-Catalyzed Polymerization

Mean Speed = 30

Investment Advisor: David P. Smith, CFP®

Revised Order 28-2029



APPENDIX VI

LABORATORY DATA



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

December 08, 2021

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: RUTHLESS LAY FLAT SPILL (RUTH)

Enclosed are the results of analyses for samples received by the laboratory on 12/06/21 12:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey 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
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 1 0-1' (H213507-01)

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	12/07/2021	ND	1.86	92.8	2.00	5.24		
Toluene*	<0.050	0.050	12/07/2021	ND	1.78	89.1	2.00	5.03		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.75	87.5	2.00	5.07		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.37	89.5	6.00	4.84		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	12/07/2021	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	12/07/2021	ND	186	92.8	200	1.44	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	199	99.6	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 91.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.3 % 38.9-142

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
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 1 2' (H213507-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	12/07/2021	ND	416	104	400	0.00	

Sample ID: S - 1 3' (H213507-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	12/07/2021	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
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 1 4' (H213507-04)

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	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	12/07/2021	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	12/07/2021	ND	186	92.8	200	1.44	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	199	99.6	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 2 0-1' (H213507-05)

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	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTEx	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	12/07/2021	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	12/07/2021	ND	186	92.8	200	1.44	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	199	99.6	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 79.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.5 % 38.9-142

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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
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 2 2' (H213507-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	12/07/2021	ND	416	104	400	0.00	

Sample ID: S - 2 3' (H213507-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	12/07/2021	ND	416	104	400	0.00	

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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
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 2 4' (H213507-08)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTEx	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	12/07/2021	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	12/07/2021	ND	186	92.8	200	1.44	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	199	99.6	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.8 % 38.9-142

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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
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 3 0-1' (H213507-09)

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	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	186	92.8	200	1.44	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	199	99.6	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 96.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.6 % 38.9-142

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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 3 2' (H213507-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	12/07/2021	ND	400	100	400	3.92		

Sample ID: S - 3 3' (H213507-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	12/07/2021	ND	400	100	400	3.92	

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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 3 4' (H213507-12)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	12/07/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	186	92.8	200	1.44	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	199	99.6	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 91.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.9 % 38.9-142

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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 4 0-1' (H213507-13)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	186	92.8	200	1.44	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	199	99.6	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 4 2' (H213507-14)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTEx	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	186	92.8	200	1.44	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	199	99.6	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.0 % 38.9-142

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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 4 3' (H213507-15)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	186	92.8	200	1.44	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	199	99.6	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.3 % 38.9-142

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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 4 4' (H213507-16)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	186	92.8	200	1.44	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	199	99.6	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.0 % 38.9-142

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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 5 0-1' (H213507-17)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	186	92.8	200	1.44	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	199	99.6	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 5 2'R (H213507-18)

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	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/07/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	186	92.8	200	1.44	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	199	99.6	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 6 0' (H213507-19)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTEx	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	186	92.8	200	1.44	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	199	99.6	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: S - 7 0' (H213507-20)

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	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	186	92.8	200	1.44	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	199	99.6	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.5 % 38.9-142

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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: BG - 1 0' (H213507-21)

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	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTEx	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	186	92.8	200	1.44	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	199	99.6	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.5 % 38.9-142

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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: BG - 2 0' (H213507-22)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	219	109	200	0.395	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	211	106	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 75.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.0 % 38.9-142

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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: BG - 3 0' (H213507-23)

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	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	219	109	200	0.395	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	211	106	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 88.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: BG - 4 0' (H213507-24)

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	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	219	109	200	0.395	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	211	106	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 75.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: LR - 1 0' (H213507-25)

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	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	219	109	200	0.395	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	211	106	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: LR - 2 0-1' (H213507-26)

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	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTEx	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	219	109	200	0.395	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	211	106	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.3 % 38.9-142

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*=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
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/06/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTH)	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - LEA CO NM		

Sample ID: LR - 2 2' (H213507-27)

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	12/07/2021	ND	1.83	91.6	2.00	6.89		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.85		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	7.28		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.30	88.4	6.00	7.06		
Total BTX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/07/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	219	109	200	0.395	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	211	106	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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 "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: R. Pons		Company:					
Address: 408 W. Texas Ave		Attn:					
City: Artesia		Address:					
Phone #: 575.746.8768		City:					
Fax #: 575.746.8768		State:					
Project #: 700438.286.01		Zip:					
Project Name: Ruthless Lay Flat Spill (Ruth)		Phone #:					
Project Location: Lea County		Fax #:					
Sampler Name: J. Carnes							
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	
		GROUNDWATER		WASTEWATER			
		SOIL		OIL			
		SLUDGE		OTHER :			
		ACID/BASE:		ICE / COOL			
		OTHER :					
		DATE	TIME				
4213507	S-1 0-1'	X	1	12-3-21	9:50	X	Chlorides
1	S-1 2'	X	1	12-3-21	9:53	X	TPH
2	S-1 3'	X	1	12-3-21	9:56	X	BTEX
3	S-1 4'	X	1	12-3-21	9:59	X	
4	S-2 0-1'	X	1	12-3-21	10:12	X	
5	S-2 2'	X	1	12-3-21	10:15	X	
6	S-2 3'	X	1	12-3-21	10:18	X	
7	S-2 4'	X	1	12-3-21	10:21	X	
8	S-3 0-1'	X	1	12-3-21	10:29	X	
9	S-3 2'	X	1	12-3-21	10:32	X	

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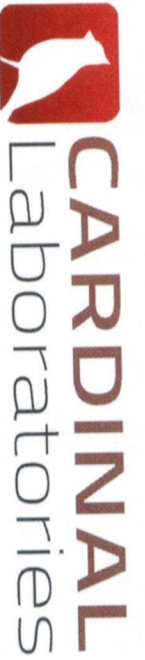
Relinquished By: *[Signature]* Date: 12-6-21 Time: 12:00
Received By: *[Signature]* Date: 12-6-21 Time: 12:00

Delivered By: (Circle One) *246* C.O.S.E. Sample Condition: ☒ Cool ☒ Intact ☐ Yes ☐ No
Sampler - UPS - Bus - Other: *1.96 #113* ☐ Yes ☐ No

CHECKED BY: *ym* (Initials)

REMARKS: Bill to Kevin Black @ eogresources.com
email results jcarne@talonlpe.com
Pg 1 of 3
2-Day

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE		BILL TO		ANALYSIS REQUEST	
Project Manager: R. Pons		P.O. #:			
Address: 408 W. Texas Ave		Company:			
City: Artesia		Attn:			
State: NM Zip: 88210		Address:			
Phone #: 575.746.8768 Fax #:		City:			
Project #: 700438.286.01 Project Owner: EOG		State:		Zip:	
Project Name: Ruthless Lay Flat Spill (Ruth)		Phone #:			
Project Location: Lea County		Fax #:			
Sampler Name: J. Carnes					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :											
H213507	BG-1 0'		1			X				12-3-21	12:05	X	X	X						
	BG-2 0'									12-10	12:10	X	X	X						
	BG-3 0'									12:00	12:00									
	BG-4 0'									11:55	11:55									
	LR-1 0'									11:40	11:40									
	LR-2 0-1'									11:30	11:30									
	LR-2 2'									11:33	11:33									

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Relinquished By: *[Signature]* Date: 12-6-21 Time: 12:22 Received By: *Yvonne mms*

Delivered By: (Circle One) *242* C-O-S *1,90* #113 Sample Condition Cool ☒ Intact ☐ Yes ☐ No ☐ Checked BY: *ym*

Sampler - UPS - Bus - Other: *1,90* #113

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

December 15, 2021

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: RUTHLESS LAY FLAT SPILL (RUTHLESS)

Enclosed are the results of analyses for samples received by the laboratory on 12/11/21 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S - 1 A 6' (H213586-01)

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	12/14/2021	ND	1.93	96.7	2.00	7.69		
Toluene*	<0.050	0.050	12/14/2021	ND	1.84	92.0	2.00	7.05		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.84	92.2	2.00	4.91		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.73	95.6	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 69.9-140

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	12/14/2021	ND	432	108	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	12/14/2021	ND	196	98.0	200	0.807		
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18		
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND						

Surrogate: 1-Chlorooctane 93.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S - 2 A 6' (H213586-02)

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	12/14/2021	ND	1.93	96.7	2.00	7.69		
Toluene*	<0.050	0.050	12/14/2021	ND	1.84	92.0	2.00	7.05		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.84	92.2	2.00	4.91		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.73	95.6	6.00	4.73		
Total BTEx	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 69.9-140

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	12/14/2021	ND	432	108	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	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S - 3 A 6' (H213586-03)

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	12/14/2021	ND	1.93	96.7	2.00	7.69		
Toluene*	<0.050	0.050	12/14/2021	ND	1.84	92.0	2.00	7.05		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.84	92.2	2.00	4.91		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.73	95.6	6.00	4.73		
Total BTEX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/14/2021	ND	432	108	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	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 91.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S - 4 A 5' (H213586-04)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.93	96.7	2.00	7.69		
Toluene*	<0.050	0.050	12/14/2021	ND	1.84	92.0	2.00	7.05		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.84	92.2	2.00	4.91		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.73	95.6	6.00	4.73		
Total BTEX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	12/14/2021	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	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 90.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.3 % 38.9-142

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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
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S - 5 A 3' (H213586-05)

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	12/14/2021	ND	1.93	96.7	2.00	7.69		
Toluene*	<0.050	0.050	12/14/2021	ND	1.84	92.0	2.00	7.05		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.84	92.2	2.00	4.91		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.73	95.6	6.00	4.73		
Total BTEx	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/14/2021	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	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.4 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S - 8 A 3' (H213586-06)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.93	96.7	2.00	7.69		
Toluene*	<0.050	0.050	12/14/2021	ND	1.84	92.0	2.00	7.05		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.84	92.2	2.00	4.91		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.73	95.6	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

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	12/14/2021	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	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 98.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.7 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S - 9 A 3' (H213586-07)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

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	12/14/2021	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	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 99.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.4 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S - 10 A 3' (H213586-08)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTEx	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/14/2021	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	12/14/2021	ND	196	98.0	200	0.807	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	194	97.1	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.8 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S - 11 A 6' (H213586-09)

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	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

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	12/14/2021	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	12/14/2021	ND	211	106	200	2.96		
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90		
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND						

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S - 12 A 6' (H213586-10)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTEX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

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	12/14/2021	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	12/14/2021	ND	211	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.9 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S - 13 A 6' (H213586-11)

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	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/14/2021	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	12/14/2021	ND	211	106	200	2.96		
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90		
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND						

Surrogate: 1-Chlorooctane 95.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.3 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S - 14 A 6' (H213586-12)

BTX 8021B			mg/kg							
			Analyzed By: MS/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/14/2021	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	12/14/2021	ND	211	106	200	2.96		
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90		
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND						

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.6 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S - 15 A 6' (H213586-13)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2021	ND	1.96	98.0	2.00	7.26	
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53	
Total BTX	<0.300	0.300	12/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/14/2021	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	12/14/2021	ND	211	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S - 16 A 5' (H213586-14)

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	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/14/2021	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	12/14/2021	ND	211	106	200	2.96		
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90		
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND						

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: LR - 2 2' (H213586-15)

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	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTEx	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

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	12/14/2021	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	12/14/2021	ND	211	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-133

Surrogate: 1-Chlorooctadecane 111 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: LR - 3 2' (H213586-16)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	12/14/2021	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	12/14/2021	ND	211	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: LR - 4 2' (H213586-17)

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	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTEX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

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	12/14/2021	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	12/14/2021	ND	211	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: LR - 5 2' (H213586-18)

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	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/14/2021	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	12/14/2021	ND	211	106	200	2.96		
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90		
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND						

Surrogate: 1-Chlorooctane 112 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: LR - 6 2' (H213586-19)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTEx	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/14/2021	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	12/14/2021	ND	211	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: LR - 7 2' (H213586-20)

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	12/14/2021	ND	1.96	98.0	2.00	7.26	
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51	
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79	
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53	
Total BTX	<0.300	0.300	12/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	12/14/2021	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	12/14/2021	ND	211	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: LR - 8 2' (H213586-21)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/14/2021	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	12/14/2021	ND	211	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

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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
 REBECCA PONS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: LR - 9 2' (H213586-22)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/14/2021	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	12/14/2021	ND	211	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: LR - 10 2' (H213586-23)

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	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTEX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

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	12/14/2021	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	12/14/2021	ND	211	106	200	2.96		
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90		
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND						

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: LR - W. SW (H213586-24)

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	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTEx	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

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	12/14/2021	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	12/14/2021	ND	211	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: LR - E. SW (H213586-25)

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	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTEx	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

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	12/14/2021	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	12/14/2021	ND	211	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: E. SW - 1 (H213586-26)

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	12/14/2021	ND	1.96	98.0	2.00	7.26		
Toluene*	<0.050	0.050	12/14/2021	ND	1.91	95.6	2.00	6.51		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.87	93.7	2.00	6.79		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	5.72	95.3	6.00	6.53		
Total BTEx	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

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	12/14/2021	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	12/14/2021	ND	211	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: E. SW - 2 (H213586-27)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	12/14/2021	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	12/14/2021	ND	211	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: W. SW - 1 (H213586-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTEx	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/14/2021	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	12/14/2021	ND	211	106	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	196	98.2	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-133

Surrogate: 1-Chlorooctadecane 112 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: W. SW - 2 (H213586-29)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/14/2021	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	12/14/2021	ND	215	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	210	105	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 120 % 44.3-133

Surrogate: 1-Chlorooctadecane 131 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S. SW - 1 (H213586-30)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

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	12/14/2021	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	12/14/2021	ND	215	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	210	105	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 125 % 44.3-133

Surrogate: 1-Chlorooctadecane 130 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S. SW - 2 (H213586-31)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

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	12/14/2021	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	12/14/2021	ND	215	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	210	105	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 120 % 44.3-133

Surrogate: 1-Chlorooctadecane 125 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S. SW - 3 (H213586-32)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/14/2021	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	12/14/2021	ND	215	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	210	105	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 115 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S. SW - 4 (H213586-33)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/14/2021	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	12/14/2021	ND	215	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	210	105	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-133

Surrogate: 1-Chlorooctadecane 116 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S. SW - 5 (H213586-34)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	12/14/2021	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	12/14/2021	ND	215	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	210	105	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 125 % 44.3-133

Surrogate: 1-Chlorooctadecane 131 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: S. SW - 6 (H213586-35)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/14/2021	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	12/14/2021	ND	215	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	210	105	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 125 % 44.3-133

Surrogate: 1-Chlorooctadecane 130 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: N. SW - 1 (H213586-36)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTEx	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

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	12/14/2021	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	12/14/2021	ND	215	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	210	105	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-133

Surrogate: 1-Chlorooctadecane 120 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: N. SW - 2 (H213586-37)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	12/14/2021	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	12/14/2021	ND	215	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	210	105	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-133

Surrogate: 1-Chlorooctadecane 123 % 38.9-142

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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: N. SW - 3 (H213586-38)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

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	12/14/2021	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	12/14/2021	ND	215	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	210	105	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 122 % 44.3-133

Surrogate: 1-Chlorooctadecane 128 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: N. SW - 4 (H213586-39)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTEx	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/14/2021	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	12/14/2021	ND	188	94.0	200	0.890	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	190	94.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: N. SW - 5 (H213586-40)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/14/2021	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	12/14/2021	ND	188	94.0	200	0.890	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	190	94.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: N. SW - 6 (H213586-41)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

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	12/14/2021	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	12/14/2021	ND	188	94.0	200	0.890	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	190	94.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 96.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/11/2021	Sampling Date:	12/09/2021
Reported:	12/15/2021	Sampling Type:	Soil
Project Name:	RUTHLESS LAY FLAT SPILL (RUTHLESS	Sampling Condition:	Cool & Intact
Project Number:	700438.286.01	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: N. SW - 7 (H213586-42)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2021	ND	1.82	91.1	2.00	8.15		
Toluene*	<0.050	0.050	12/14/2021	ND	1.92	96.0	2.00	7.14		
Ethylbenzene*	<0.050	0.050	12/14/2021	ND	1.90	94.8	2.00	4.28		
Total Xylenes*	<0.150	0.150	12/14/2021	ND	6.42	107	6.00	4.73		
Total BTX	<0.300	0.300	12/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/14/2021	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	12/14/2021	ND	188	94.0	200	0.890	
DRO >C10-C28*	<10.0	10.0	12/14/2021	ND	190	94.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	12/14/2021	ND					

Surrogate: 1-Chlorooctane 91.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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 "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

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



ANALYSIS REQUEST

Released to Imaging: 1/25/2022 10:58:47 AM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO		ANALYSIS REQUEST	
Company Name: Talon LPE Project Manager:	P.O. #:		
Address: 408 W. Texas Ave City: Artesia State: NM zip: 88210	Company:		
Phone #: 575.746.8768 Fax #:	Attn:		
Project #: 700438.286.01 Project Owner: EOG	Address:		
Project Name: Ruthless Lay Flat Spill (Ruthless)	City:		
Project Location: Lea County	State:	Zip:	
Sampler Name: J. Carnes	Phone #:		
Fax #:			

FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING																				
Lab I.D.	Sample I.D.	(G) RAB OR (C) OMP.	# CONTAINERS		GROUNDEWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	T D H	B T E X						
H-213584	31 S.S.W-2	X	1				X					X		12-9-21	2:59	X	X	X						
	32 S.S.W-3														3:02	X								
	33 S.S.W-4														3:05	X								
	34 S.S.W-5														3:08	X								
	35 S.S.W-6														3:11	X								
	36 N.S.W-1														12:11	X								
	37 N.S.W-2														2:30	X								
	38 N.S.W-3														2:33	X								
	39 N.S.W-4														2:36	X								
	40 N.S.W-5														2:39	X								

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Relinquished By: [Signature]	Date: _____	Received By: [Signature]	Date: _____
Time: _____		Time: _____	

Relinquished By: [Signature]	Date: 12/11/21	Received By: [Signature]
Delivered By: (Circle One) [Signature] <i>Lea Co</i>	Time: 10:00	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>
Sampler - UPS - Bus - Other:	C/S/C C-O-S-C	CHECKED BY: [Initials] dy 4 of 5

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

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

CONDITIONS

Action 70766

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 70766
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	1/25/2022