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Closure Report

Long Arroyo OD State Com #2 Chaves County, New Mexico API # 30-005-61729 Incident # nAPP2123158626

Prepared For:

EOG Resources Inc. 104 S. 4th Street Artesia, NM 88210

Prepared By:

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

November 22, 2021



Mike Bratcher **NMOCD** 1301 W Grand Ave. Artesia, NM 88210

Subject: Closure Report Long Arroyo OD State Com #2 Lea County, New Mexico API # 30-005-61729 Incident # nAPP2123158626

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 actions and closure request are presented herein.

Site Information

The Long Arroyo OD State Com #2 is located approximately seven (7) miles east of Hagerman, New Mexico. The legal location for this release is Unit Letter L, Section 14, Township 14 South and Range 27 East in Chaves County, New Mexico. More specifically the latitude and longitude for the release are 33.10151 and -104.21302. 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 Alama loam, 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 geology consists of eolian and piedmont deposits, Holocene to middle Pleistocene in age, and comprised of calcareous alluvium derived from sedimentary rock. 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 181 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.

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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, Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

Approximate Depth to	Groundwater 181 Feet/bgs
□Yes ⊠No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or a playa lake
∐Yes ⊠No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church
□Yes ⊠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
□Yes ⊠No	Within 1000 feet of any freshwater well or spring
□Yes ⊠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
□Yes ⊠No	Within 300 feet of a wetland
□Yes ⊠No	Within the area overlying a subsurface mine
□Yes ⊠No	Within an unstable area
□Yes ⊠No	Within a 100-year floodplain

Because the release occurred on a location where the well is plugged and location is to be reclaimed, the clean up criteria for the upper 4 feet of this site per NMAC 19.15.29.13.D 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/I TDS	Constituent	Method	Limit								
<u>≤</u> 50 feet	Total Chlorides TPH (GRO+DRO+MRO)	EPA 300.0 or SM4500 CI B EPA SW-846 Method 8015M	600 mg/kg 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

During routine site clean up activities and decommissioning of the facility, EOG personnel noted historical staining around the wellhead casing valves during the preparation work for the plugging and abandonment procedures on July 19, 2021. Due to the size of the impacted area, a C-141 spill notification was filed with the NMOCD and is referenced in Appendix III. A Site Map is presented in Appendix I.

Site Assessment

On August 05, 2021, Talon mobilized personnel to the site to conduct an initial site assessment of the area around the well head. The impacted area was mapped utilizing a Trimble Juno 3B, photographed and sampled utilizing a hand auger. All soil samples were properly packaged, preserved, and transported to Hall Laboratories via chain of custody for analysis of Total Chlorides (EPA Method 300.0), TPH (EPA Method 8015M), and BTEX (EPA Method 8021B). Sample locations are shown on the attached Figure 4 (Appendix I) and the results of our sampling event are presented on the following data table.

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 Crite 19.15.29 NMAC		50 mg/kg	10 mg/kg	GRO +	DRO + MR mg/kg	O = 100	100 mg/kg	600 mg/kg
S-1	8/5/2021	0.5'R	ND	ND	ND	360	950	1310	58000
BG-1	8/5/2021	0-1'	ND	ND	ND	15	ND	15	3400
BG-2	8/5/2021	0-1'	ND	ND	ND	110	260	370	390
BG-3	8/5/2021	0-1'	ND	ND	ND	18	ND	18	23000
BG-4	8/5/2021	0-1'	ND	ND	ND	ND	ND	ND	12000

Table I08/17/2021 Soil Sample Laboratory Results

ND=Analyte Not Detected R=Hand Auger Refusal BG=Background

See Appendix V for the complete report of laboratory results

Remedial Actions

Based on the laboratory results from the initial site assessment and upon client authorization, on November 10, 2021, Talon personnel and equipment were mobilized to the site to commence remediation of the impacted area. The impacted area around the well head was excavated utilizing a hydrovac. Field titration data was used to guide the excavation process. Composite soil samples were collected from the bottom and sidewalls of the excavated area. All soil samples were properly collected and preserved for laboratory transport in order to confirm that NMOCD clean up criteria had been achieved. The confirmation results from the laboratory are tabulated below. Confirmation sample locations are illustrated on Figure 5 (Appendix I).

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
-	Table 1 Closur 19.15.29 NMAC		50 mg/kg	10 mg/kg	DRO + GF	RO + MRO co 100 mg/kg	ombined =	100 mg/kg	600 mg/kg
S-1A	11/19/2021	4.5'	ND	ND	ND	ND	ND	ND	112
S-2A	11/19/2021	4.5'	ND	ND	ND	ND	ND	ND	224
S-3A	11/19/2021	4.5'	ND	ND	ND	ND	ND	ND	224
S-4A	11/19/2021	4.5'	ND	ND	ND	ND	ND	ND	160
S-5B	11/10/2021	2'	ND	ND	ND	ND	ND	ND	16
S-6B	11/10/2021	2'	ND	ND	ND	ND	ND	ND	224
S-7B	11/10/2021	2'	ND	ND	ND	ND	ND	ND	32
S-8	11/11/2021	2'	ND	ND	ND	ND	ND	ND	96
S-9	11/11/2021	2'	ND	ND	ND	ND	ND	ND	240
WG	11/10/2021	4'	ND	ND	ND	ND	ND	ND	224
EG	11/10/2021	4'	ND	ND	ND	ND	ND	ND	640
EGA	11/19/2021	4.5'	ND	ND	ND	ND	ND	ND	240
SG	11/10/2021	4'	ND	ND	ND	ND	ND	ND	384
NG	11/10/2021	4'	ND	ND	ND	ND	ND	ND	96
EB-2	11/11/2021	4'	ND	ND	ND	ND	ND	ND	80
NW-B	11/10/2021	2'	ND	ND	ND	ND	ND	ND	80
SW-B	11/10/2021	2'	ND	ND	ND	ND	ND	ND	48
WW-B	11/11/2021	2'	ND	ND	ND	ND	ND	ND	160
SW	11/10/2021	4'	ND	ND	ND	ND	ND	ND	224
NW	11/10/2021	4'	ND	ND	ND	ND	ND	ND	48
ww	11/10/2021	4'	ND	ND	ND	ND	ND	ND	16
EW-A	11/11/2021	4'	ND	ND	ND	ND	ND	ND	96
ND=	Analvte Not D)etected	B/G=Bottor	n Samples	SW/WV	V=Sidewall	Composite	Samples	

Table II 11-11-21 Soil Sample Confirmation Laboratory Results

ND=Analyte Not Detected

B/G=Bottom Samples

SW/WW=Sidewall Composite Samples

See Appendix V for the complete report of laboratory results.

Remedial Actions Summary

- The impacted area was excavated to depths of 2 feet to 4.5 feet bgs. Laboratory analysis confirms that NMOCD closure criteria for soil remediation has been achieved from bottom and sidewall samples.
- The area in the vicinity of the well head was hydro-excavated to a depth of 4.5 feet bgs and confirmation samples collected to verify NMOCD clean up criteria was met.
- All contaminated soil was transported to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- The excavated area was backfilled with clean caliche, machine compacted, and restored to grade.
- Photodocumentation of the open excavation and backfilled areas are presented in Appendix IV.
- The Final C-141 is attached in Appendix III.

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 this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

Talon/LPE

Rebecca S. Pons Digitally signed by Rebecca S. Pons, or Talon/JPF, Disc m=Rebecca S. Pons, or Talon/JPF, email=rponspitalon/paccom, c=US Date: 2021.11.30 15825.97070

Rebecca S. Pons Senior Environmental Project Manager David J. Adkins

David J. Adkins Regional Manager

Attachments: Appendix I Site Plans Appendix II Groundwater Data, Soil Survey Appendix III C-141 Forms Appendix IV Photographic Documentation Appendix V Laboratory Data



<u>APPENDIX I</u>

SITE PLANS

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<u>APPENDIX II</u>

GROUNDWATER DATA

SOIL SURVEY

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

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RA 01395 ENLRG

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(R=POD has

POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD been rep O=orpha C=the fil closed)	olaced, aned,		(qua	arte	ers ar		W 2=NE Illest to	E 3=SW 4	,	actora)	(In fe	a ct	
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<u>RA 05087</u>		RA	СН				22	14S	27E	572441	3661393* 🥌	1734	391	181	210
RA 04392		RA	СН		4	3	26	14S	27E	573876	3659187* 🌍	3655	127	80	47
<u>RA 05394</u>		RA	СН			3	04	14S	27E	570362	3665788* 🌍	4273	53	25	28
RA 03366		RA	СН		4	1	18	14S	27E	567385	3663147* 🌍	6057	100		
<u>RA 02915</u>		RA	СН	4	4	2	03	15S	27E	573200	3656660* 🌍	6160	100		
<u>RA 03344</u>		RA	СН	1	4	4	28	13S	27E	571239	3668922* 🌍	6488	115		
<u>RA 04897</u>		RA	СН		2	4	01	15S	27E	576335	3656401* 🌍	7040	75	23	52
<u>RA 05058</u>		RA	СН		1	3	30	14S	27E	567038	3659503* 🌍	7202	32	19	13
RA 05058 CLW251057	0	RA	СН	1	1	3	30	14S	27E	566937	3659602* 🌍	7247	32	19	13
<u>RA 07668</u>		RA	СН	2	4	2	25	14S	26E	566727	3660007* 🌍	7270	40	20	20
<u>RA 01359</u>	0	RA	СН	1	1	4	13	14S	26E	566089	3662832* 🌍	7344	35		
<u>RA 06654</u>		RA	СН	4	4	2	25	14S	26E	566727	3659807* 🌍	7350	55	15	40
<u>RA 01374</u>		RA	СН	3	3	4	12	14S	26E	566075	3663848* 🌍	7430	40		
RA 01374 CLW		RA	СН	3	3	4	12	14S	26E	566075	3663848* 🌍	7430	125		
<u>RA 01374 S1</u>		RA	СН	3	3	4	12	14S	26E	566075	3663848* 🌍	7430	40		
<u>RA 05021</u>		RA	CH		1	1	06	14S	27E	566960	3666770* 🌍	7585	1300		
<u>RA 10421</u>		RA	СН	4	4	4	25	14S	26E	566731	3659005* 🌍	7709	92	30	62
<u>RA 04279</u>		RA	СН		3	4	31	14S	27E	567847	3657497* 🌍	7713	200		
RA 11944 POD1		RA	СН	1	4	2	01	14S	26E	566405	3666426 🌍	7901	200	90	110
<u>RA 01767</u>		RA	СН	3	4	1	12	14S	26E	565666	3664650* 🌍	7980	180		
<u>RA 01359 S</u>	0	RA	СН	2	1	1	13	14S	26E	565473	3663638* 🌍	8002	250		
<u>RA 03796</u>		RA	СН		4	2	06	15S	27E	568261	3656701* 🌍	8008	1400		
<u>RA 04651</u>		RA	СН		4	3	31	14S	27E	567442	3657492* 🌍	8014	200		
RA 01267 SUP	0	RA	CH	3	4	3	01	14S	26E	565659	3665455* 🌍	8209	287		
RA 12054 POD1		RA	СН	3	3	3	12	14S	26E	565224	3663809 🌍	8268	100	22	78
<u>RA 03737</u>		RA	CH	2	2	4	23	14S	26E	565093	3661214* 🌍	8492	70	41	29
<u>RA 04437</u>		RA	CH	2	2	4	23	14S	26E	565093	3661214* 🌍	8492	115	32	83
RA 01359 CLW	0	RA	СН	3	2	4	14	14S	26E	564878	3662627* 🌍	8557	135		
<u>RA 01377</u>		RA	СН	1	4	4	14	14S	26E	564882	3662424* 🌍	8560	165		
<u>RA 01377 S</u>		RA	СН	1	4	4	14	14S	26E	564882	3662424* 🌍	8560	265	90	175
RA 01359 CLW1	0	RA	СН	3	4	4	14	14S	26E	564882	3662224* 🌍	8571	135	65	70

1/2

564882 3662224*

8571

100

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RA 03218		RA	СН		1	01	14S	26E	565552	3666557* 🌍	8723	76		
RA 04106		RA	СН	1	4 4	23	14S	26E	564897	3660811* 🌍	8768	150		
RA 04106 CLW		RA	CH	1	4 4	23	14S	26E	564897	3660811* 🌍	8768	100	14	8
RA 04106 S		RA	СН	1	4 4	23	14S	26E	564897	3660811* 🌍	8768	135	30	10
RA 01375		RA	СН	2	3 2	23	14S	26E	564686	3661614* 🌍	8829	235		
RA 02294		RA	СН	1	3 1	06	15S	27E	566956	3656779* 🌍	8854	200		
RA 01375 CLW	0	RA	СН		3 2	23	14S	26E	564587	3661515* 🌍	8941	240		
RA 01375 REPAR	0	RA	СН		3 2	23	14S	26E	564587	3661515* 🌍	8941	132		
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Easting (X):	573433		Nort	hing	(Y):	366	2815.8	7		Radius: 9000				
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WATER COLUMN/ AVERAGE DEPTH TO WATER



Chaves County, New Mexico, Southern Part

Aa—Alama loam

Map Unit Setting

National map unit symbol: 1w6g Elevation: 3,200 to 4,200 feet Mean annual precipitation: 10 to 16 inches Mean annual air temperature: 59 to 65 degrees F Frost-free period: 180 to 220 days Farmland classification: Not prime farmland

Map Unit Composition

Alama and similar soils: 85 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Alama

Setting

Landform: Flood plains, swales Landform position (three-dimensional): Talf Down-slope shape: Convex Across-slope shape: Convex Parent material: Calcareous alluvium derived from sedimentary rock

Typical profile

H1 - 0 to 3 inches: loam *H2 - 3 to 58 inches:* clay loam

H3 - 58 to 69 inches: silt loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: RareNone
Frequency of ponding: None
Calcium carbonate, maximum content: 5 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: High (about 11.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6e Hydrologic Soil Group: C Ecological site: R042XC007NM - Loamy Hydric soil rating: No

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Minor Components

Pajarito

Percent of map unit: 5 percent *Ecological site:* R042XC004NM - Sandy *Hydric soil rating:* No

Berino

Percent of map unit: 5 percent Ecological site: R042XC004NM - Sandy Hydric soil rating: No

Pintura

Percent of map unit: 4 percent Ecological site: R042XC005NM - Deep Sand Hydric soil rating: No

Playa

Percent of map unit: 1 percent Landform: Flood-plain playas Landform position (three-dimensional): Dip, talf Down-slope shape: Concave Across-slope shape: Concave Ecological site: R042XC017NM - Bottomland Hydric soil rating: Yes

BE—Berino-Cacique association

Map Unit Setting

National map unit symbol: 1w6k Elevation: 3,300 to 4,100 feet Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 59 to 65 degrees F Frost-free period: 190 to 215 days Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 50 percent Cacique and similar soils: 30 percent Minor components: 20 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains, fan remnants Landform position (three-dimensional): Riser, rise Down-slope shape: Convex Across-slope shape: Convex

Custom Soil Resource Report

Parent material: Mixed alluvium and/or eolian deposits derived from sedimentary rock

Typical profile

H1 - 0 to 1 inches: fine sandy loam *H2 - 1 to 60 inches:* sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 8.9 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R042XC004NM - Sandy Hydric soil rating: No

Description of Cacique

Setting

Landform: Basin floors Landform position (three-dimensional): Riser Down-slope shape: Convex Across-slope shape: Convex Parent material: Mixed alluvium and/or eolian deposits derived from sedimentary rock

Typical profile

H1 - 0 to 16 inches: fine sand
H2 - 16 to 29 inches: sandy clay loam
H3 - 29 to 33 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 20 to 40 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: 15 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 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: C Ecological site: R042XC004NM - Sandy Hydric soil rating: No

Minor Components

Cacique

Percent of map unit: 8 percent Ecological site: R042XC004NM - Sandy Hydric soil rating: No

Pintura

Percent of map unit: 6 percent Ecological site: R042XC005NM - Deep Sand Hydric soil rating: No

Tencee

Percent of map unit: 6 percent Ecological site: R042XC025NM - Shallow Hydric soil rating: No

So—Sotim fine sandy loam

Map Unit Setting

National map unit symbol: 1w8c Elevation: 3,200 to 4,500 feet Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 59 to 65 degrees F Frost-free period: 190 to 220 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Sotim and similar soils: 85 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Sotim

Setting

Landform: Plains, alluvial fans Landform position (three-dimensional): Rise Down-slope shape: Convex, linear Across-slope shape: Convex, linear Parent material: Mixed alluvium and/or eolian deposits derived from sedimentary rock

Custom Soil Resource Report

Typical profile

H1 - 0 to 7 inches: fine sandy loam H2 - 7 to 70 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Gypsum, maximum content: 9 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: High (about 10.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: C Ecological site: R042XC004NM - Sandy Hydric soil rating: No

Minor Components

Russler

Percent of map unit: 4 percent Ecological site: R042XC007NM - Loamy Hydric soil rating: No

Gypsum land

Percent of map unit: 4 percent Hydric soil rating: No

Reeves

Percent of map unit: 3 percent Ecological site: R042XC007NM - Loamy Hydric soil rating: No

Tencee

Percent of map unit: 3 percent Ecological site: R042XC025NM - Shallow Hydric soil rating: No

Ravine

Percent of map unit: 1 percent Landform: Streams, arroyos, perenial streams, ravines Landform position (three-dimensional): Dip, talf Down-slope shape: Concave Across-slope shape: Concave Ecological site: R042XC033NM - Salty Bottomland Hydric soil rating: Yes

TOF—Torriorthents, very steep

Map Unit Setting

National map unit symbol: 1w8d Elevation: 2,840 to 4,500 feet Mean annual precipitation: 8 to 13 inches Mean annual air temperature: 59 to 64 degrees F Frost-free period: 190 to 220 days Farmland classification: Not prime farmland

Map Unit Composition

Torriorthents: 85 percent *Minor components:* 15 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Torriorthents

Setting

Landform: Escarpments, scarps Landform position (three-dimensional): Free face Down-slope shape: Convex Across-slope shape: Convex Parent material: Mixed alluvium derived from igneous, metamorphic and sedimentary rock

Typical profile

H1 - 0 to 6 inches: gravelly loam
H2 - 6 to 20 inches: gravelly sandy clay loam
H3 - 20 to 24 inches: bedrock

Properties and qualities

Slope: 30 to 80 percent
Depth to restrictive feature: 10 to 60 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Calcium carbonate, maximum content: 7 percent
Gypsum, maximum content: 3 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: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydric soil rating: No

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Minor Components

lma

Percent of map unit: 8 percent Ecological site: R070BY055NM - Sandy Plains Hydric soil rating: No

Rock outcrop

Percent of map unit: 7 percent Hydric soil rating: No



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

)

Page 26 bf 78

Incident ID	nAPP2123158626
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377					
Contact Name Chase Settle	Contact Telephone 575-748-1471					
Contact email Chase_Settle@eogresources.com	Incident # (assigned by OCD)					
Contact mailing address 104 S. 4th Street, Artesia, NM 88210						

Location of Release Source

Latitude 33.10151

Longitude -104.21302

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Long Arroyo OD State Com #2	Site Type Well
Date Release Discovered 08/18/2021	API# (if applicable) 30-005-61729

	Unit Letter	Section	Township	Range	County		
ſ	L	14	14S	27E	Chaves		

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
tor P& the im	A on 07/19/2021. EOG contracted a third pai	made that based on the size of the impacted

Page 27 2678

Page	2
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Oil Conservation Division

Incident ID	NAPP2123158626
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
5	
19.15.29.7(A) NMAC?	
🗌 Yes 🔽 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

 \checkmark The source of the release has been stopped.

 \bigvee The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Chase Settle

Signature: Chan Sottle

Title:	Rep	Safety	&	Environmental Sr
--------	-----	--------	---	------------------

email: Chase_Settle@eogresources.com

Date: 08/18/2021

Telephone: 575-748-1471

OCD Only

Received by: Ramona Marcus

Date: 8/20/2021

Page 6

Oil Conservation Division

	Page 28 of	78
Incident ID	nAPP2123158626	
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:Chase SettleTitle:Rep Safety & Environmental Sr						
Signature: <u>Chase Settle</u> Date: <u>11/30/2021</u>						
Email: <u>Chase_Settle@eogresouces.com</u> Telephone: _575-748-1471						
OCD Only						
Received by: Date:						
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: Date: Date: Date: Date:						
Printed Name: Jennifer Nobui Title: Environmental Specialist A						



APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION



Long Arroyo OD State Com #2 Chaves County, New Mexico



Photograph No.1 Description:

Aerial View of Location





Long Arroyo OD State Com #2 Chaves County, New Mexico

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Received by OCD: 11/30/2021 6:13:21 PM







APPENDIX V

LABORATORY DATA

Released to Imaging: 1/26/2022 1:25:55 PM



August 17, 2021

Rebecca Pons Talon Artesia 408 West Texas Ave Artesia, NM 88210 TEL: FAX:

RE: Long Arroyo OD St COM 2

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2108369

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/7/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Talon Artesia

2108369-001

Project:

Lab ID:

Analytical Report

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

Long Arroyo OD St COM 2

Lab Order 2108369

Client Sample ID: S-1 0.5'R Collection Date: 8/5/2021 12:45:00 PM Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	VP
Chloride	58000	3000	mg/Kg	1E+	- 8/12/2021 8:55:43 PM	61909
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst:	SB
Diesel Range Organics (DRO)	360	10	mg/Kg	1	8/10/2021 8:29:37 PM	61856
Motor Oil Range Organics (MRO)	950	50	mg/Kg	1	8/10/2021 8:29:37 PM	61856
Surr: DNOP	107	70-130	%Rec	1	8/10/2021 8:29:37 PM	61856
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	mb
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	8/11/2021 12:05:00 AM	61849
Surr: BFB	102	70-130	%Rec	5	8/11/2021 12:05:00 AM	61849
EPA METHOD 8021B: VOLATILES					Analyst:	mb
Benzene	ND	0.12	mg/Kg	5	8/11/2021 12:05:00 AM	61849
Toluene	ND	0.24	mg/Kg	5	8/11/2021 12:05:00 AM	61849
Ethylbenzene	ND	0.24	mg/Kg	5	8/11/2021 12:05:00 AM	61849
Xylenes, Total	ND	0.49	mg/Kg	5	8/11/2021 12:05:00 AM	61849
Surr: 4-Bromofluorobenzene	95.0	70-130	%Rec	5	8/11/2021 12:05:00 AM	61849

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- ٠ Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix н
- Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - % Recovery outside of range due to dilution or matrix S

- B Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL **Reporting Limit**

Page 1 of 9

Analytical Report
Lab Order 2108369

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BG-1 0-1' Long Arroyo OD St COM 2 Collection Date: 8/5/2021 12:55:00 PM **Project:** Received Date: 8/7/2021 9:10:00 AM Lab ID: 2108369-002 Matrix: SOIL Analyses Result **RL** Qual Units **DF** Date Analyzed Batch Analyst: VP EPA METHOD 300.0: ANIONS 8/12/2021 9:08:04 PM 61909 3400 150 mg/Kg 50 Chloride Analyst: SB EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 8/10/2021 6:31:37 PM **Diesel Range Organics (DRO)** 15 9.8 mg/Kg 1 61856 ND mg/Kg 8/10/2021 6:31:37 PM 61856 Motor Oil Range Organics (MRO) 49 1 8/10/2021 6:31:37 PM Surr: DNOP 107 70-130 %Rec 1 61856 EPA METHOD 8015D: GASOLINE RANGE Analyst: mb 8/11/2021 1:25:00 AM 61849 Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 Surr: BFB 93.2 70-130 %Rec 1 8/11/2021 1:25:00 AM 61849

Outt. Dr D	00.2	10 100				
EPA METHOD 8021B: VOLATILES					Analyst:	mb
Benzene	ND	0.024	mg/Kg	1	8/11/2021 1:25:00 AM	61849
Toluene	ND	0.047	mg/Kg	1	8/11/2021 1:25:00 AM	61849
Ethylbenzene	ND	0.047	mg/Kg	1	8/11/2021 1:25:00 AM	61849
Xylenes, Total	ND	0.095	mg/Kg	1	8/11/2021 1:25:00 AM	61849
Surr: 4-Bromofluorobenzene	91.2	70-130	%Rec	1	8/11/2021 1:25:00 AM	61849

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
 - S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 9
CLIENT: Talon Artesia

2108369-003

Project:

Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Long Arroyo OD St COM 2

Lab Order **2108369** Date Reported: **8/17/2021**

Client Sample ID: BG-2 0-1' Collection Date: 8/5/2021 1:00:00 PM Received Date: 8/7/2021 9:10:00 AM

정말 그렇게 있었는 것은 것 같아요. 그는 그는 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것 그 그는 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것			1/2 N.S.			
Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	390	59	mg/Kg	20	8/11/2021 11:06:42 PM	61909
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	SB
Diesel Range Organics (DRO)	110	9.8	mg/Kg	1	8/10/2021 6:57:21 PM	61856
Motor Oil Range Organics (MRO)	260	49	mg/Kg	1	8/10/2021 6:57:21 PM	61856
Surr: DNOP	112	70-130	%Rec	1	8/10/2021 6:57:21 PM	61856
EPA METHOD 8015D: GASOLINE RANGE					Analyst	mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/11/2021 1:45:00 AM	61849
Surr: BFB	87.6	70-130	%Rec	1	8/11/2021 1:45:00 AM	61849
EPA METHOD 8021B: VOLATILES					Analyst:	mb
Benzene	ND	0.024	mg/Kg	1	8/11/2021 1:45:00 AM	61849
Toluene	ND	0.047	mg/Kg	1	8/11/2021 1:45:00 AM	61849
Ethylbenzene	ND	0.047	mg/Kg	1	8/11/2021 1:45:00 AM	61849
Xylenes, Total	ND	0.095	mg/Kg	1	8/11/2021 1:45:00 AM	61849
Surr: 4-Bromofluorobenzene	85.9	70-130	%Rec	1	8/11/2021 1:45:00 AM	61849

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
- D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - S % Recovery outside of range duc to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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CLIENT: Talon Artesia

Long Arroyo OD 2108369-004

Project:

Lab ID:

Analyses

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2108369

l Analysis	s Laboratory, Inc.	Date Reported: 8/17/2021					
		Client Sample ID: BG-3 0-1'					
St COM 2		Collection Date: 8/5/2021 1:05:00 PM					
	Matrix: SOIL	Received Date: 8/7/2021 9:10:00 AM					
	Result	RL Qual Units DF Date Analyzed	Batch				

				_	•	
EPA METHOD 300.0: ANIONS Chloride	23000	1500	mg/Kg	500	Analyst: 8/12/2021 9:20:25 PM	VP 61909
EPA METHOD 8015M/D: DIESEL RANGE ORG					Analyst:	
EFA METHOD OUTSIND, DIESEL RANGE ORG	ANICO				Analyst.	00
Diesel Range Organics (DRO)	18	10	mg/Kg	1	8/13/2021 10:57:10 AM	61937
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/13/2021 10:57:10 AM	61937
Surr: DNOP	122	70-130	%Rec	1	8/13/2021 10:57:10 AM	61937
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/11/2021 2:05:00 AM	61849
Surr: BFB	85.3	70-130	%Rec	1	8/11/2021 2:05:00 AM	61849
EPA METHOD 8021B: VOLATILES					Analyst:	mb
Benzene	ND	0.024	mg/Kg	1	8/11/2021 2:05:00 AM	61849
Toluene	ND	0.049	mg/Kg	1	8/11/2021 2:05:00 AM	61849
Ethylbenzene	ND	0.049	mg/Kg	1	8/11/2021 2:05:00 AM	61849
Xylenes, Total	ND	0.097	mg/Kg	1	8/11/2021 2:05:00 AM	61849
Surr: 4-Bromofluorobenzene	82.3	70-130	%Rec	1	8/11/2021 2:05:00 AM	61849

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix н
- Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit

Page 4 of 9

CLIENT: Talon Artesia

Project: Long Arroyo OD St COM 2

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2108369

Date Reported: 8/17/2021

Client Sample ID: BG-4 0-1' Collection Date: 8/5/2021 1:10:00 PM Received Date: 8/7/2021 9:10:00 AM

Lab ID: 2108369-005	Matrix: SOIL		Received Date: 8/7/2021 9:10:00 AM						
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst:	VP		
Chloride	12000	600		mg/Kg	200	8/12/2021 9:32:46 PM	61909		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	SB		
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/10/2021 4:54:29 PM	61856		
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2021 4:54:29 PM	61856		
Surr: DNOP	137	70-130	S	%Rec	1	8/10/2021 4:54:29 PM	61856		
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	mb		
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/11/2021 2:25:00 AM	61849		
Surr: BFB	95.8	70-130		%Rec	1	8/11/2021 2:25:00 AM	61849		
EPA METHOD 8021B: VOLATILES						Analyst:	mb		
Benzene	ND	0.024		mg/Kg	1	8/11/2021 2:25:00 AM	61849		
Toluene	ND	0.047		mg/Kg	1	8/11/2021 2:25:00 AM	61849		
Ethylbenzene	ND	0.047		mg/Kg	1	8/11/2021 2:25:00 AM	61849		
Xylenes, Total	ND	0.094		mg/Kg	1	8/11/2021 2:25:00 AM	61849		
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	8/11/2021 2:25:00 AM	61849		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded н
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- В Analyte detected in the associated Method Blank
- Value above quantitation range Ε
- J Analyte detected below quantitation limits
- Sample pH Not In Range Р
- RL Reporting Limit

Page 5 of 9

C SUMIMARY REPORT	WO#:	2108369
Ill Environmental Analysis Laboratory, Inc.		17-Aug-21

Client: Talon	Artesia					
Project: Long A	Arroyo OD St COM 2	9				
Sample ID: MB-61909 SampType: MBLK TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 61909	RunNo: 80443				
Prep Date: 8/11/2021	Analysis Date: 8/11/2021	SeqNo: 2836571 Units:	mg/Kg			
Analyte	Result PQL SPK value SPI	K Ref Val %REC LowLimit HighL	imit %RPD RPDLimit Qual			
Chloride	ND 1.5					
Sample ID: LCS-61909	SampType: LCS	TestCode: EPA Method 300.0:	Anions			
Client ID: LCSS	Batch ID: 61909	RunNo: 80443				
Prep Date: 8/11/2021	Analysis Date: 8/11/2021	SeqNo: 2836572 Units:	mg/Kg			
Analyte	Result PQL SPK value SPH	KRefVal %REC LowLimit HighL	imit %RPD RPDLimit Qual			
Chloride	14 1.5 15.00	0 93.4 90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- В Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH Not In Range Р
- RL Reporting Limit

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Released to Imaging: 1/26/2022 1:25:55 PM

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Talon A Project: Long A	Artesia rroyo OD St COM 2			
Sample ID: MB-61856	SampType: MBLK	TestCode: EPA Method	1 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 61856	RunNo: 80429		
Prep Date: 8/9/2021	Analysis Date: 8/10/2021	SeqNo: 2836040	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10			
Motor Oil Range Organics (MRO)	ND 50			
Surr: DNOP	13 10.00	129 70	130	
Sample ID: LCS-61856	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 61856	RunNo: 80429		
Prep Date: 8/9/2021	Analysis Date: 8/10/2021	SeqNo: 2836041	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	56 10 50.00	0 111 68.9	141	
Surr: DNOP	5.7 5.000	114 70	130	
Sample ID: MB-61937	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 61937	RunNo: 80519		
Prep Date: 8/12/2021	Analysis Date: 8/13/2021	SeqNo: 2838860	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10			
Notor Oil Range Organics (MRO)	ND 50			
Surr: DNOP	11 10.00	108 70	130	

Sample ID: LCS-61937	SampT	ype: LC	s	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batcl	Batch ID: 61937 RunNo: 80519									
Prep Date: 8/12/2021	Analysis D)ate: 8/	13/2021	S	SeqNo: 2	838861	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	54	10	50.00	0	109	68.9	141				
Surr: DNOP	5.5		5.000		111	70	130				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded н

Not Detected at the Reporting Limit ND

- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix s

- B Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- Reporting Limit RL

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2108369

17-Aug-21

WO#:

all Environmental Analysis Laboratory, Inc.	_	17-Aug-21
	WO#:	2108369

Client: Talon A Project: Long A	Artesia arroyo OD Si	t COM	2							
Sample ID: mb-61849	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	e	
Client ID: PBS	Batch	1 ID: 61	849	ł	RunNo: 8	0440				
Prep Date: 8/9/2021	Analysis D	ate: 8/	10/2021	ę	SeqNo: 2	835420	Units: mg/k	۲g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		85.0	70	130			
Sample ID: Ics-61849	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batch	ID: 618	349	F	RunNo: 81	0440				
Prep Date: 8/9/2021	Analysis D	ate: 8/	10/2021	5	SeqNo: 21	335422	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
asoline Range Organics (GRO)	25	5.0	25.00	0	99.0	78.6	131			
Surr: BFB	990		1000		98.6	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level,
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded н
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 8 of 9

Released to Imaging: 1/26/2022 1:25:55 PM

Talon Artesia

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Project: Long A	rroyo OD S	t COM	2							
Sample ID: mb-61849	SampType: MBLK			Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batc	h ID: 61	849	F	RunNo: 8	0440				
Prep Date: 8/9/2021	Analysis [Date: 8/	10/2021	8	SeqNo: 2	835564	Units: mg/M	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		84.4	70	130			
Surr: 4-Bromofluorobenzene Sample ID: Ics-61849	alden fr	ype: LC	12 12/2	Tes			130 8021B: Volat	iles		
	SampT	ype: LC	s			PA Method		iles		<u></u>
Sample ID: Ics-61849	SampT	n ID: 618	S 349	F	Code: EF	PA Method 0440				<u></u>
Sample ID: Ics-61849 Client ID: LCSS	SampT Batcl	n ID: 618	S 349 10/2021	F	Code: EF	PA Method 0440	8021B: Volat		RPDLimit	Qual
Sample ID: Ics-61849 Client ID: LCSS Prep Date: 8/9/2021 Analyte	SampT Batcl Analysis D	n ID: 618 Pate: 8/*	S 349 10/2021	F	Code: EF RunNo: 80 ieqNo: 28	PA Method 0440 335565	8021B: Volat Units: mg/K	g	RPDLimit	Qual
Sample ID: Ics-61849 Client ID: LCSS Prep Date: 8/9/2021 Analyte Benzene	SampT Batcl Analysis D Result	n ID: 618 Pate: 8/* PQL	S 349 10/2021 SPK value	F S SPK Ref Val	Code: EF tunNo: 80 ieqNo: 28 %REC	PA Method 0440 335565 LowLimit	8021B: Volat Units: mg/K HighLimit	g	RPDLimit	Quai
Sample ID: Ics-61849 Client ID: LCSS Prep Date: 8/9/2021	SampT Batcl Analysis D Result 0.95	n ID: 618 Pate: 8/* PQL 0.025	S 349 10/2021 SPK value 1.000	F SPK Ref Val 0	Code: EF RunNo: 80 SeqNo: 28 %REC 95.4	PA Method 0440 335565 LowLimit 80	8021B: Volat Units: mg/K HighLimit 120	g	RPDLimit	Qual
Sample ID: Ics-61849 Client ID: LCSS Prep Date: 8/9/2021 Analyte Benzene Toluene	SampT Batcl Analysis D Result 0.95 0.96	n ID: 618 pate: 8/* PQL 0.025 0.050	S 349 10/2021 SPK value 1.000 1.000	F S SPK Ref Val 0 0	Code: EF RunNo: 80 ieqNo: 28 %REC 95.4 95.5	PA Method 0440 335565 LowLimit 80 80	8021B: Volat Units: mg/K HighLimit 120 120	g	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 9 of 9

WO#: 2108369 17-Aug-21

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Page	44	0J	΄ / δ

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345	nental Analysis Labor 4901 Hawki Albuquerque, NM & 5-3975 FAX: 505-345 ints.hallenvironmenta —	ns NE 87109 Sa -4107	mple Log-In Check Lis	Page t
Client Name: Talon Artesla	Work Order Nu	mber: 2108369		RcptNo: 1	
Received By: Sean Livingston	8/7/2021 9:10:00	AM	Sal	not	
Completed By: Sean Livingston	8/7/2021 10:19:2	0 AM	5.1	in the	
Reviewed By: 1 08/07/2021					
Chain of Custody			5		
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the sample	s?	Yes 🗹	No 🗌	NA 🗌	
4. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗌		
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for Indicated test	(s)?	Yes 🔽	No 🗌		
7. Are samples (except VOA and ONG) prop	arly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1	/4" for AQ VOA?	Yes 🗔	No 🗌	NA 🗹	
10. Were any sample containers received brol	ken?	Yes	No 🗹	# of preserved	
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 		Yes 🗹	No 🗋	for pH: (<2.01-512 unless noted	d)
2. Are matrices correctly identified on Chain of	f Custody?	Yes 🗹	No 🗔	Adjusted?	
3. Is it clear what analyses were requested?		Yes 🗹	No 🗌		Ì
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes 🗹	No 🗌	Checked by: 562 817[2]	(
Special Handling (if applicable)					
15. Was client notified of all discrepancles with	this order?	Yes 🗌	No 🗌		
Person Notified:	Date				
By Whom:	Via:	🗌 eMail 🔲 Ph	ione 📋 Fax	In Person	
Regarding:		· · · · · · · · · · · · · · · · · · ·			
Client Instructions:					
16. Additional remarks:					
7. Cooler Information					
Cooler No Temp °C Condition S	eal Intact Seal No	Seal Date	Signed By		
1 0.6 Good 2 2.8 Good					
2 2.8 Good	· · · · ·	1	1		

Page 1 of I

Re	ceive	d by	OCD	:11	/30/	202	1 6:1	13:2	1 PM							ſ	1		T	1	1	Γ			Page	45 of 78
	HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	- Albuqu	1ei: 505-345-3975 Fax 505-345-4107	Analysis Request					-													remarks: Direct Bill 10 EOG Resources ATTN: Chase Settle ンタキン ここく	2.02. 1.7.1	
								U	<u>د</u> –	• 0		е ф КШ —	ν × < ×					= = = = = = = = = = = = = = = = = = =			 				0.610-0.6	lity. Any sub
							_	-				н с ј												N N	03	f this possibl
Tum-Around Time: 4-Dav	🗆 Standard 🗆 Rush		Long Arrovo OD St. Com #2 (1 ong Arrovo OD)	ct #:	700438268	Project Manager:)	R. Pons	M. Collier			Container Preservative Container Preservative Container Type												relate mon	ad by: Via: Via: Date Time	to other accredited laboratories. This serves as notice of
Цщ	0 	Proje		Project #:		Proje	J		Sampler		000	Container Type and	Glass/ 1										Received by:	Q.A	Received by	boontracted
Chain-of-Custody Record			408 W. Texas Ave		575.746.8768			Level 4 (Full Validation)	□ Az Compliance			ix Sample Name	S-10.5'R	BG-1 0-1	BG-2 0-1	BG-3 0-1'	BG-4 0-1'						lished by:	OLLA	Kelinquished by:	submitted to Hali Environheadel may be su
)-fo-(LPE		SS:	88210	575.7		<i>i</i>		□ Az Co □ Other	100	 	Matrix	Soil										Relinquished	N	Kelingu	y, samples
Chair	: Talon LPE		g Addre:	a, NM 8	,#.	Cemail or Fax#.	ZOAVOC Package:	ndard	ditation:	EDD (Tvpe)		Time	12:45	12:55	1:00	1:05	1:10						Time:	£	[<i>COO</i>	ff necessa
Re	Client: <i>Lease</i>	d to	Mailing Address:	an Artesi	Hone #	6/2		Standard	Accreditation:			Date	8/5/2021										Date:	Sle(21	9/0/21	



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

November 16, 2021

JAMES CARNES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LONG ARROYO OD STATE COM 2 (ARROYO 2) -

Enclosed are the results of analyses for samples received by the laboratory on 11/11/21 10:48.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/11/2021	Sampling Date:	11/10/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	LONG ARROYO OD STATE COM 2 (ARRC	Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: SW 4' (H213221-01)

BTEX 8021B	mg/	kg	Analyze	ed By: MS	1011				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2021	ND	2.09	104	2,00	2.90	
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2,00	1.92	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.97	98.4	2.00	2.67	
Total Xylenes*	<0,150	0.150	11/11/2021	ND	6.02	100	6.00	3,13	
Total BTEX	<0.300	0.300	11/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PIC	93.9%	69.9-14	0						
Chloride, SM4500Cl-B	mg/l	(g	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/11/2021	ND	432	108	400	3.64	
TPH 8015M	mg/l	g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	ND	231	116	200	4.75	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	227	114	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	102 %	44.3-133							
Surrogate: 1-Chlorooctadecane	105 %	38.9-142	?						

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Celleg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/11/2021	Sampling Date:	11/10/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	LONG ARROYO OD STATE COM 2 (ARR(Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: NW 4' (H213221-02)

BTEX 8021B		kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/11/2021	ND	2.09	104	2,00	2.90	
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2.00	1.92	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1,97	98.4	2.00	2,67	
Total Xylenes*	<0.150	0.150	11/11/2021	ND	6,02	100	6.00	3,13	
Total BTEX	<0.300	0.300	11/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.69	69.9-14	0			-	·		
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC			_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/11/2021	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	ND	231	116	200	4.75	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	227	114	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	93.2 %	6 44.3-133	}						
Surrogate: 1-Chlorooctadecane	95.9%	6 38.9-142	2						

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Celez Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/11/2021	Sampling Date:	11/10/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	LONG ARROYO OD STATE COM 2 (ARRC	Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: WW 4' (H213221-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2021	ND	2.09	104	2,00	2.90	
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2.00	1.92	
Ethylbenzene*	<0,050	0.050	11/11/2021	ND	1.97	98.4	2.00	2.67	
Total Xylenes*	<0,150	0.150	11/11/2021	ND	6.02	100	6.00	3.13	
Total BTEX	<0,300	0.300	11/11/2021	ND					
Surrogale: 4-Bromofluorobenzene (PIL	93.69	69.9-140)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/11/2021	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	ND	231	116	200	4,75	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	227	114	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	108 %	6 44.3-133							
Surrogate: 1-Chlorooctadecane	117%	38.9-142	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/11/2021	Sampling Date:	11/10/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	LONG ARROYO OD STATE COM 2 (ARRC	Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: S - 5B 2' (H213221-04)

BTEX 8021B	mg/	íkg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2021	ND	2.09	104	2.00	2.90	
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2.00	1.92	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1,97	98.4	2.00	2.67	
Total Xylenes*	<0.150	0.150	11/11/2021	ND	6.02	100	6.00	3,13	
Total BTEX	<0.300	0.300	11/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.3 9	69.9-140)						
Chioride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/11/2021	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	ND	231	116	200	4.75	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	227	114	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	98.5 9	6 44.3-133	1		<u>.</u>				
Surrogate: 1-Chlorooctadecane	95.79	6 38.9-142							

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Celleg & Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/11/2021	Sampling Date:	11/10/2021
Reported:	11/16/2021	Sampling Type:	Soll
Project Name:	LONG ARROYO OD STATE COM 2 (ARR(Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: S - 6B 2' (H213221-05)

BTEX 8021B	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/11/2021	ND	2.09	104	2.00	2.90	
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2.00	1.92	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.97	98.4	2.00	2.67	
Total Xylenes*	<0.150	0.150	11/11/2021	ND	6.02	100	6.00	3.13	
Total BTEX	<0.300	0.300	11/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.5 9	69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/11/2021	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS			_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	,ND	231	116	200	4.75	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	227	114	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	107 %	6 44.3-13.	3			· · ·			
Surrogate: 1-Chlorooctadecane	103 %	6 38.9-14.	2						

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Celez D. Kune-

Celey D. Keene, Lab Director/Quality Manager

Laboratories



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

Analytical Results For:

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

Received:	11/11/2021	Sampling Date:	11/10/2021
Reported:	11/16/2021	Sampling Type:	Soll
Project Name:	LONG ARROYO OD STATE COM 2 (ARR(Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: S - 7B 2' (H213221-06)

BTEX 8021B		kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2021	ND	2.09	104	2.00	2.90	
Toluene*	<0.050	0.050	11/11/2021	ND	1,98	99.0	2.00	1.92	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.97	98.4	2,00	2.67	
Total Xylenes*	<0.150	0,150	11/11/2021	ND	6.02	100	6.00	3.13	
Total BTEX	<0.300	0.300	11/11/2021	ND			8.		
Surrogate: 4-Bromofluorobenzene (PIL	94.0 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/11/2021	ND	432	108	400	3.64	
TPH 8015M	mg/k	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	ND	231	116	200	4.75	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	227	114	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	94.5 %	6 44.3-13	3				in de la constante de la consta		
Surrogate: 1-Chlorooctadecane	92.3 %	38.9-142	?						

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Celler D. Kuno

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/11/2021	Sampling Date:	11/10/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	LONG ARROYO OD STATE COM 2 (ARR(Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: WG 4' (H213221-07)

BTEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2021	ND	2.09	104	2.00	2.90	
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2.00	1.92	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.97	98.4	2.00	2.67	
Total Xylenes*	<0.150	0.150	11/11/2021	ND	6.02	100	6.00	3.13	
Total BTEX	<0.300	0,300	11/11/2021	ND					

Chioride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/11/2021	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyzed By: M						
Апајуtе	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10,0	11/11/2021	ND	231	116	200	4.75	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	227	114	200	8.67	
EXT DRO >C28-C36	<10.0	10,0	11/11/2021	ND					

Surrogate: 1-Chlorooctadecane 99.1 % 38.9-142

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Celeg & trene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/11/2021	Sampling Date:	11/10/2021
Reported:	11/16/2021	Sampling Type:	Soll
Project Name:	LONG ARROYO OD STATE COM 2 (ARRO	Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: EG 4' (H213221-08)

BTEX 8021B	mg,	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2021	ND	2.09	104	2.00	2.90	
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2.00	1.92	t.
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.97	98.4	2,00	2.67	
Total Xylenes*	<0.150	0.150	11/11/2021	ND	6.02	100	6.00	3,13	
Total BTEX	<0.300	0.300	11/11/2021	ND					
			·				2010 2020		

Surrogate: 4-Bromofluorobenzene (PIE 93.9 % 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	640	16.0	11/11/2021	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	ND	231	116	200	4.75	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	227	114	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	107 9	% 44.3-13.	3						

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

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Celeg Ditrene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/11/2021	Sampling Date:	11/10/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	LONG ARROYO OD STATE COM 2 (ARRO	Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: SG 4' (H213221-09)

BTEX 8021B	mg/kg		Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/11/2021	ND	2.09	104	2.00	2.90	
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2.00	1.92	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.97	98.4	2.00	2.67	
Total Xylenes*	<0.150	0.150	11/11/2021	ND	6.02	100	6.00	3.13	
Total BTEX	<0,300	0.300	11/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.2 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/11/2021	ND	432	108	400	3.64	
TPH 8015M	mg/k	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	ND	231	116	200	4.75	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	227	114	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	105 %	44.3-13	}				······		
Surrogate: 1-Chlorooctadecane	101 %	38.9-142	?						

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Celez Di Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/11/2021	Sampling Date:	11/10/2021
Reported:	11/16/2021	Sampling Type:	Soli
Project Name:	LONG ARROYO OD STATE COM 2 (ARRO	Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: NG 4' (H213221-10)

BTEX 8021B	mg,	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2021	ND	2.09	104	2.00	2.90	
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2.00	1.92	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.97	98.4	2.00	2.67	
Total Xylenes*	<0.150	0.150	11/11/2021	ND	6.02	100	6.00	3.13	
Total BTEX	<0.300	0.300	11/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL 95.1% 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	96.0	16.0	11/11/2021	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	ND	231	116	200	4.75	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	227	114	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
	100	% 44.3-13	3	<u> </u>		· · ·			

Surrogate: 1-Chlorooctadecane 96.3 % 38.9-142

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Celleg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

	Received:	11/11/2021	Sampling Date:	11/10/2021
~	Reported:	11/16/2021	Sampling Type:	Soil
	Project Name:	LONG ARROYO OD STATE COM 2 (ARRO	Sampling Condition:	Cool & Intact
	Project Number:	700438,268,01	Sample Received By:	Yvonne Muniz
	Project Location:	EOG - CHAVES CO NM		

Sample ID: NW - B 2' (H213221-11)

BTEX 80218	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/11/2021	ND	2.09	104	2.00	2.90	
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2.00	1.92	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.97	98,4	2,00	2.67	
Total Xylenes*	<0.150	0.150	11/11/2021	ND	6.02	100	6.00	3.13	
Total BTEX	<0.300	0.300	11/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.3 9	6 69.9-14	0						
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	11/11/2021	ND	432	108	400	3.64	
TPH 8015M	mg/	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10,0	11/11/2021	ND	231	116	200	4.75	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	227	114	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	92.2 %	6 44.3-133	3						
Surrogate: 1-Chlorooctadecane	88.4%	6 38.9-142	?						

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Celez Theme

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/11/2021	Sampling Date:	11/10/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	LONG ARROYO OD STATE COM 2 (ARR(Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: SW - B 2' (H213221-12)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2021	ND	2.09	104	2.00	2.90	
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2.00	1.92	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.97	98.4	2.00	2.67	
Total Xylenes*	<0.150	0.150	11/11/2021	ND	6.02	100	6.00	3.13	
Total BTEX	<0.300	0.300	11/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.1 %	% 69.9-14	0						
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	11/11/2021	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	NÐ	231	116	200	4,75	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	227	114	200	8.67	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	104 %	<i>44.3-13</i> .	3						
Surrogate: 1-Chlorooctadecane	100 %	6 38.9-14.	2						

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Celez D. Kune-

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
e.	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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Celleg Di Keene

Celey D. Keene, Lab Director/Quality Manager





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Page 60 of 78

Received by OCD: 11/30/2021 6:13:21 PM



Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

November 16, 2021

JAMES CARNES TALÔN LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: LONG ARROYO OD STATE COM 2 (ARROYO 2)

Enclosed are the results of analyses for samples received by the laboratory on 11/12/21 10:41.

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

Method EPA 552.2	Haloacetlc 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/12/2021	Sampling Date:	11/11/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	LONG ARROYO OD STATE COM 2 (ARR(Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: S - 8 2' (H213235-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2021	ND	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2.06	103	2.00	3.87	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6.31	105	6,00	4.33	
Total BTEX	<0,300	0.300	11/12/2021	ND					
			·						

Surrogate: 4-Bromofluorobenzene (PIE 93.8 % 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	96.0	16.0	11/15/2021	ND	416	104	400	0.00	
TPH 8015M	mg	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	11/12/2021	ND	218	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	213	106	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					
Surrogate: 1-Chlorooctane	97.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	97.0	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/12/2021	Sampling Date:	11/11/2021
Reported:	11/16/2021	Sampling Type:	Soll
Project Name:	LONG ARROYO OD STATE COM 2 (ARRO	Sampling Condition:	Cool & Intact
Project Number:	700438,268,01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: S - 9 2' (H213235-02)

BTEX 8021B	mg/kg		Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2021	ND	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2.06	103	2,00	3.87	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6.31	105	6.00	4.33	
Total BTEX	<0.300	0.300	11/12/2021	ND		9.3			
Surrogate: 4-Bromofluorobenzene (PIL	94.1 9	6 69.9-14	0						
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	11/15/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	(g	Analyze	d By: MS					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	218	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	213	106	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					
Surrogate: 1-Chlorooctane	103 %	5 44.3-133	}				· · · · ·	in an	
Surrogate: 1-Chlorooctadecane	104 %	38.9-142	?						

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Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/12/2021	Sampling Date:	11/11/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	LONG ARROYO OD STATE COM 2 (ARRC	Sampling Condition:	Cool & Intact
Project Number:	700438,268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG ~ CHAVES CO NM		

Sample ID: WW - B 2' (H213235-03)

BTEX 8021B	mg/kg		Analyz	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/12/2021	ND	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2,00	4.14	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2,06	103	2.00	3.87	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6.31	105	6.00	4.33	
Total BTEX	<0.300	0.300	11/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PIE	94.2 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/15/2021	ND	416	104	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10,0	10.0	11/12/2021	ND	218	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	213	106	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					
Surrogate: 1-Chlorooctane	106 %	44.3-133	1						
	100 70								

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Celleg D. Keene-

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/12/2021	Sampling Date:	11/11/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	LONG ARROYO OD STATE COM 2 (ARR(Sampling Condition:	Cool & Intact
Project Number:	700438,268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: EB - 2 4' (H213235-04)

BTEX 8021B	mg/kg		Analyz	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/12/2021	ND	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2,06	103	2.00	3.87	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6,31	105	6.00	4.33	
Total BTEX	<0.300	0.300	11/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.7 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/15/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	218	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	213	106	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					
Surrogate: 1-Chlorooctane	111 %	6 44.3-133	3						

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Celeg Di Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/12/2021	Sampling Date:	11/11/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	LONG ARROYO OD STATE COM 2 (ARR(Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: EW - A 4' (H213235-05)

BTEX 8021B	mg/kg		Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/12/2021	ND	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2,06	103	2.00	3.87	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6,31	105	6.00	4.33	
Total BTEX	<0.300	0.300	11/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.2 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/15/2021	ND	416	104	400	0.00	
TPH 8015M	mg/l	g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10,0	10,0	11/12/2021	ND	218	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	213	106	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					
Surrogate: 1-Chlorooctane	98.0 %	6 44.3-133	3						
Surrogate: 1-Chlorooctadecane	102%	38.9-142	,						

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Celeg D. Kene

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

 ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference

 Samples not received at proper temperature of 6°C or below.

 Insufficient time to reach temperature.

 Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celery D. Keene

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 11/30/2021 6:13:21 PM

Refinquished By: Sampler - UPS - Bus - Other; Relinquished By: Delivered By: (Circle One) malyans. Al dairros including those for negliges lenvice. In no evenu shall Cardinal be liable for Sampler Name: M. Garcia Project Location: Chaves County EASE NOTE: Liability and City: Project Name: Long Arroyo OD State Com #2 (Arroyo 2) Project #: 700438.268.01 Phone #: 575.746.8768 Address: 408 W. Texas Ave Project Manager: Company Name Talon LPE FOR LAB USE ONLY Lab I.D. Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 Artesia S S N S-8 2 S-9 2 WW-B 2 all a EB-2 4' EW-A 4' (575) 393-2326 FAX (575) 393-2476 101 East Mariand, Hobbs, NM 88240 Sample I.D 2 AIB IO:41 Time: Project Owner; EOG Fax #: white shad be dee flamagest including state: NM zip: 88210 Received By: without kindston, Dusiness i **Received By:** (G)RAB OR (C)OMP # CONTAINERS Cool Intact GROUNDWATER uniess made in writing and received by Cardinal Sample Condition WASTEWATER SOIL MATRIX OIL SLUDGE Mun bass of use, or loss of profits incurred by client, its subsidiarion. OTHER State: Phone #: Fax #: City: Attn: Company: P.O. # Address: ACID/BASE: PRESERV CHECKED BY: SPR ICE / COOL (Initials) OTHER BILL TO attion 30 days . CIVIA Zip: DATE SAMPLING after completion of the applicable Fax Result REMARKS: Phone Result 6 Ma !! Bill to by the claim for the 50:1 60.1 01:1 120 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST TIME 2-1245 Chlor, des results to DD chase_settle@eogresources.com Yes TCH rush O N N N N BTFX Add'l Phone #: Add'l Fax #: ANALYSIS Jearnes@talenlpe.cox REQUEST

Page 69 of 78

CARDINAL Laboratories

Page 8 of 8



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

November 23, 2021

JAMES CARNES

TALON LPE

408 W, TEXAS AVE,

ARTESIA, NM 88210

RE: LONG ARROYO OD STATE COM 2 (ARROYO 2)

Enclosed are the results of analyses for samples received by the laboratory on 11/22/21 12:12.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Whe Smith

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



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

Received:	11/22/2021	Sampling Date:	11/19/2021
Reported:	11/23/2021	Sampling Type:	Soll
Project Name:	LONG ARROYO OD STATE COM 2 (ARRC	Sampling Condition:	Cool & Intact
Project Number:	700438,268,01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: S - 1A 4.5' (H213361-01)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/22/2021	ND	2.04	102	2.00	3.68	
Toluene*	<0.050	0.050	11/22/2021	ND	1.93	96.7	2.00	4.29	
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.91	95.3	2.00	4.29	
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5,83	97.2	6,00	4.24	
Total BTEX	<0.300	0.300	11/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.0 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	112	16.0	11/23/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10,0	11/23/2021	ND	200	99,9	200	0.378	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	224	112	200	1,67	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					
Surrogate: 1-Chlorooctane	78.1 9	6 44.3-13.	3	······································				=	
Surrogate: 1-Chlorooctadecane	79.89	6 38.9-14)						

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

Received:	11/22/2021	Sampling Date:	11/19/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	LONG ARROYO OD STATE COM 2 (ARR(Sampling Condition:	Cool & Intact
Project Number:	700438,268,01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: S - 2A 4.5' (H213361-02)

BTEX 8021B	mg/kg		Analyze	ed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie	
Benzene*	<0.050	0.050	11/22/2021	ND	2.04	102	2.00	3.68		
Toluene*	<0.050	0.050	11/22/2021	ND	1.93	96.7	2.00	4.29		
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1,91	95.3	2,00	4,29		
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5,83	97.2	6.00	4.24		
Total BTEX	<0.300	0.300	11/22/2021	ND						
Surrogate: 4-Bromofluorobenzene (PIL	<i>93.7</i> 9	% 69.9-14	0							
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	11/23/2021	ND	416	104	400	3.92		
TPH 8015M	mg/	kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	200	99.9	200	0.378		
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	224	112	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND						
Surrogate: 1-Chlorooctane	71.19	6 44.3-13	3							
Surrogate; 1-Chlorooctadecane	68.1 9	6 38.9-142	?							

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

Received:	11/22/2021	Sampling Date:	11/19/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	LONG ARROYO OD STATE COM 2 (ARR(Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: S - 3A 4.5' (H213361-03)

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	11/22/2021	ND	2.04	102	2.00	3.68	
Toluene*	<0.050	0.050	11/22/2021	ND	1.93	96.7	2.00	4.29	
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.91	95.3	2,00	4,29	
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.83	97.2	6.00	4,24	
Total BTEX	<0.300	0.300	11/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PIE	95.3	% 69.9-14	0						
Chloride, SM4500Cl-B mg/kg		Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/23/2021	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	200	99.9	200	0.378	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	224	112	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					
Surrogate: 1-Chlorooctane	78.0%	6 44.3-13	3					960 - 960 - 97 - 97 - 97 - 97 - 97 - 97 - 97 - 9	
Surrogate: 1-Chlorooctadecane	75.19	6 38.9-142	2						

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

Received:	11/22/2021	Sampling Date:	11/19/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	LONG ARROYO OD STATE COM 2 (ARRO	Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: S - 4A 4.5' (H213361-04)

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	11/22/2021	ND	2.04	102	2.00	3.68	
Toluene*	<0.050	0.050	11/22/2021	ND	1.93	96.7	2.00	4.29	
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1,91	95.3	2.00	4.29	
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5,83	97.2	6.00	4.24	
Total BTEX	<0.300	0.300	11/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.39	6 69.9-14	0	<u>.</u>					
Chloride, SM4500Cl-B mg/kg		Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/23/2021	ND	416	104	400	3.92	
TPH 8015M	mg/l	g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND .	200	99.9	200	0,378	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	224	112	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					
Surrogate: 1-Chlorooctane	84.2 %	6 44.3-133	3						
Surrogate: 1-Chlorooctadecane	80.6%	6 38.9-142	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/22/2021	Sampling Date:	11/19/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	LONG ARROYO OD STATE COM 2 (ARR(Sampling Condition:	Cool & Intact
Project Number:	700438.268.01	Sample Received By:	Yvonne Muniz
Project Location:	EOG - CHAVES CO NM		

Sample ID: EG - A 4.5' (H213361-05)

BTEX 8021B	mg/kg		Analyzed By: MS						
Anaiyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/22/2021	ND	2.04	102	2.00	3.68	
Toluene*	<0.050	0.050	11/22/2021	ND	1.93	96.7	2.00	4.29	
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1,91	95.3	2,00	4.29	
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5,83	97.2	6,00	4.24	
Total BTEX	<0.300	0.300	11/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95 ,1 9	69.9-14	0						
Chloride, SM4500Cl-B	00Cl-B mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/23/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	200	99.9	200	0.378	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	224	112	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					
Surrogate: 1-Chlorooctane	84.8 9	6 44.3-13.	3						
Surrogate: 1-Chlorooctadecane	82,3 9	6 38.9-14.	2						

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Notes and Definitions

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

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

CONDITIONS

Operator:	OGRID:	
EOG RESOURCES INC	7377	
P.O. Box 2267 Ac Midland, TX 79702	Action Number:	
	64357	
	Action Type:	
	[C-141] Release Corrective Action (C-141)	

CONDITIONS

Created By		Condition Date
jnobui	None	1/26/2022

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Action 64357