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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.

Approx	kimate 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/l TDS	Constituent	Method	Limit					
≤ 50 feet	Total Chlorides	EPA 300.0 or SM4500 CI B	600 mg/kg					
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg					
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg					
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg					

Incident Description

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.

Table I08/17/2021 Soil Sample Laboratory Results

Sample ID	Sample Date	Depth (bgs)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
	able 1 Closure 0 9.15.29 NMAC	Criteria	50 mg/kg	10 mg/kg	GRO +	DRO + MRO 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

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).

Table II11-11-21 Soil Sample Confirmation Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI 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=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, o-Talon/LPE,
Obe cm-Rebecca S. Pons, o-Talon/LPE,
email-riponspitalonipe.com, c-US
Date: 2021.11.30 15:08:25-0700'

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

Digitally signed by David J. Adkins DN: cn=David J. Adkins, o=Regional Manager, ou=Talon/LPs, email=dadkins@talonlpe.com, c=US Date: 2021.11.30 15:07:12-07'00'

David J. Adkins Regional Manager

Attachments:

Appendix I Site Plans

Appendix II Groundwater Data, Soil Survey

Appendix III C-141 Forms

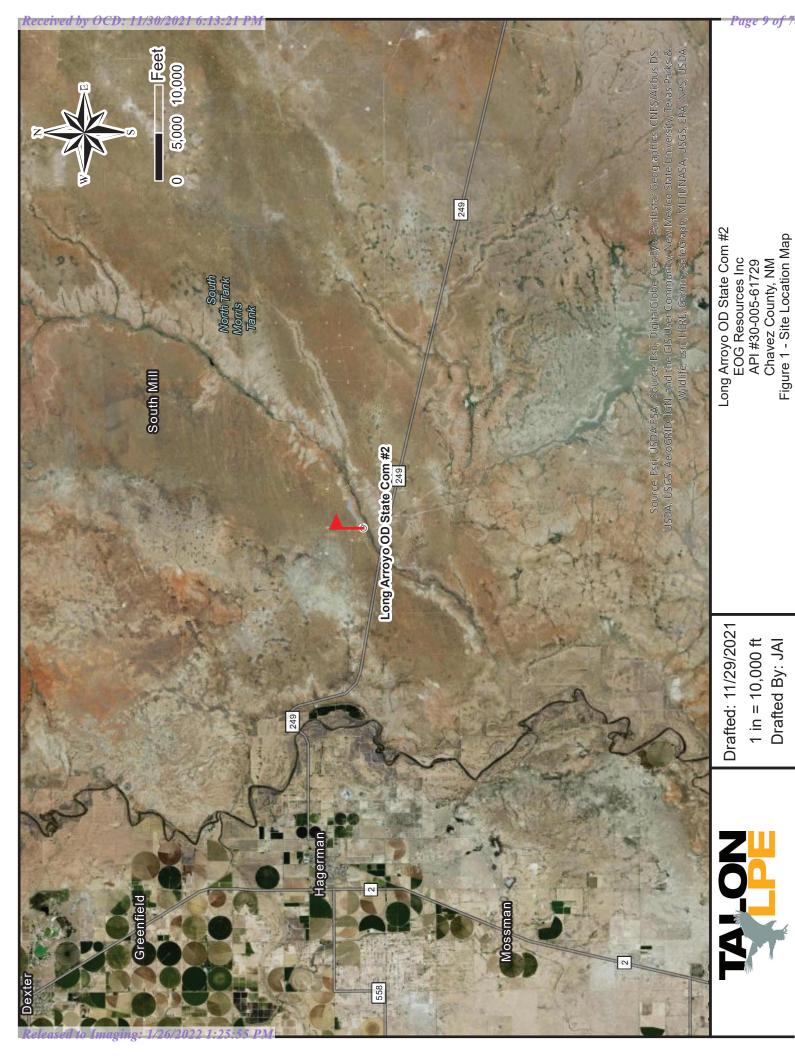
Appendix IV Photographic Documentation

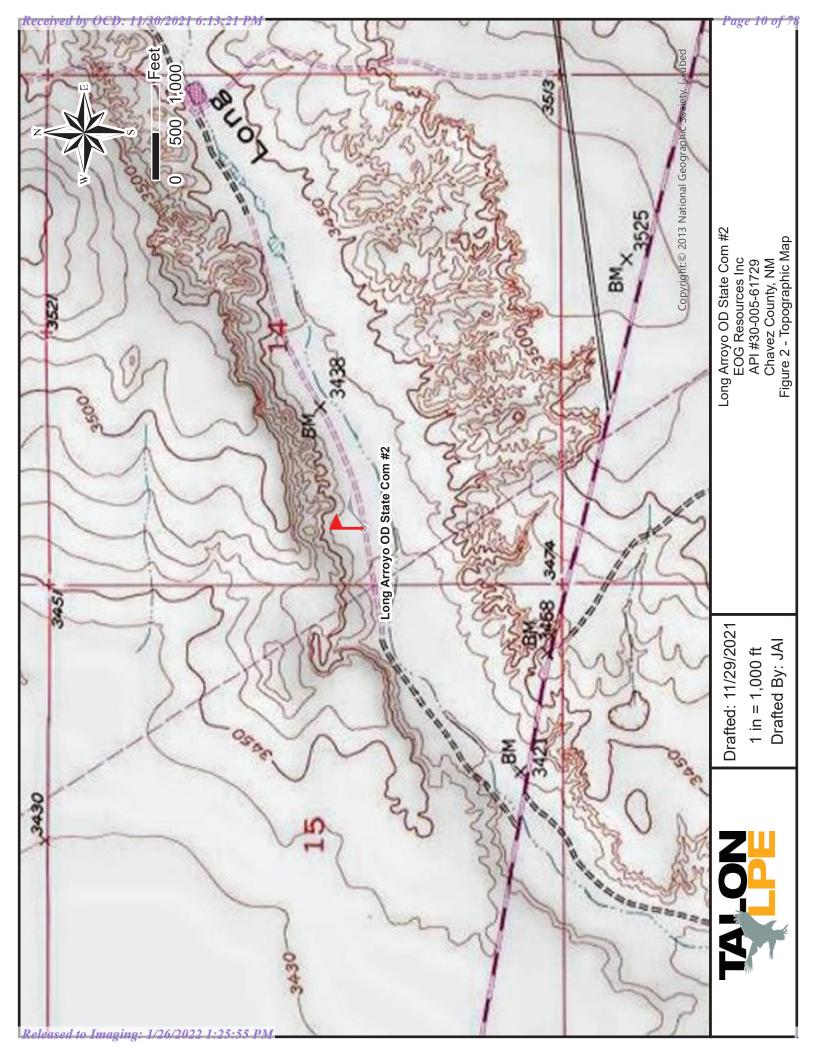
Appendix V Laboratory Data



<u>APPENDIX I</u>

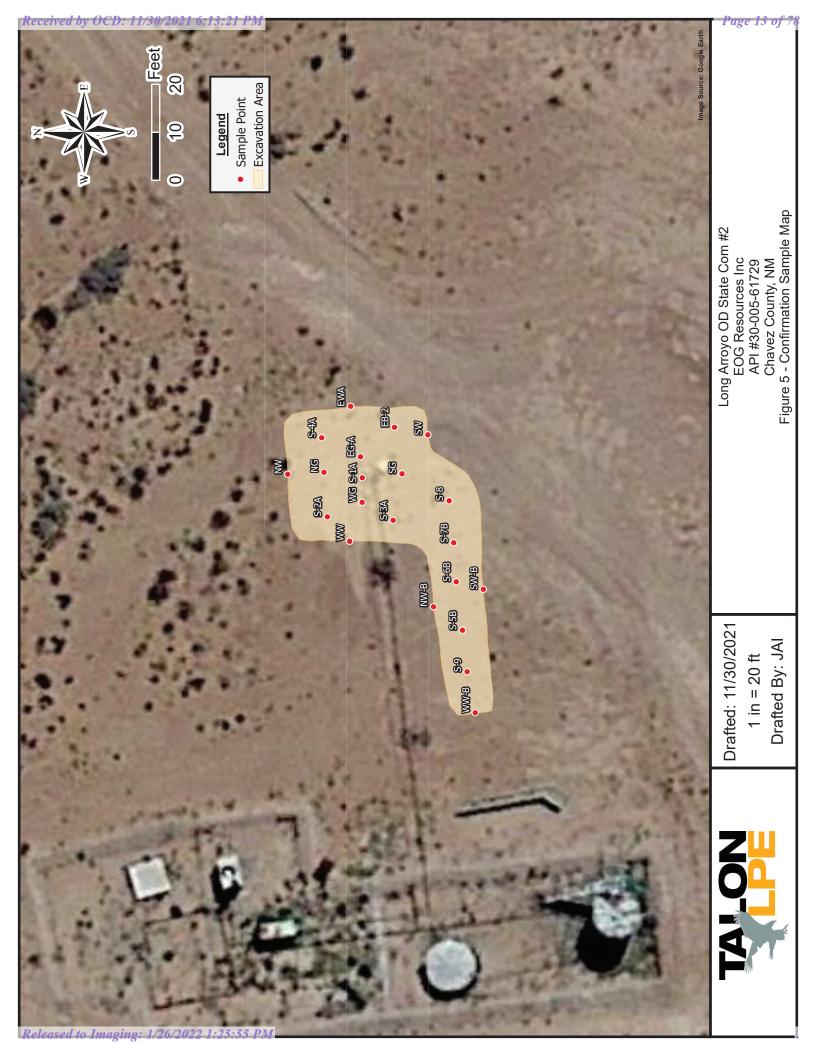
SITE PLANS













APPENDIX II

GROUNDWATER DATA

SOIL SURVEY



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

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

(R=POD has been replaced, O=orphaned,

C=the file is

closed)

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

(quarters are smallest to

largest) (NAD83 UTM in meters)

(In feet)

		POD		iui	goc	,,,			(11	ADOC CTIVITIES	101013)	(111	1001)	
POD Number RA 05385	Code	Sub-	County CH	Q (641	6 4	Sec	Tws	_	X 570000	γ	Distance D	epthWellDe _l 32		/ater olumn
		RA	СН		-		14S		572830	3662601*	1734	391	181	210
RA 05087		RA	СН		1 9		14S		572441 573876	3661393* 3 659187* 3	3655	127	80	210 47
RA 04392				-						_				
RA 05394		RA	CH				148		570362	_	4273	53	25	28
RA 03366		RA	CH				14S		567385	3663147*	6057	100		
RA 02915		RA	CH	4 4			15S		573200	3656660*	6160	100		
RA 03344		RA	CH				13S		571239	3668922*	6488	115		
RA 04897		RA	СН		2 4		15S		576335	3656401*	7040	75	23	52
RA 05058		RA	СН		1 3		14S		567038	3659503*	7202	32	19	13
RA 05058 CLW251057	0	RA	СН	1	1 3	30	14S	27E	566937	3659602*	7247	32	19	13
RA 07668		RA	СН	2 4	1 2	25	14S	26E	566727	3660007*	7270	40	20	20
RA 01359	0	RA	CH	1	1 4	13	14S	26E	566089	3662832*	7344	35		
RA 06654		RA	CH	4 4	1 2	25	14S	26E	566727	3659807*	7350	55	15	40
RA 01374		RA	CH	3 3	3 4	12	14S	26E	566075	3663848*	7430	40		
RA 01374 CLW		RA	CH	3 3	3 4	12	14S	26E	566075	3663848*	7430	125		
RA 01374 S1		RA	CH	3 3	3 4	12	14S	26E	566075	3663848*	7430	40		
RA 05021		RA	CH		1 1	06	14S	27E	566960	3666770*	7585	1300		
RA 10421		RA	CH	4 4	1 4	25	14S	26E	566731	3659005*	7709	92	30	62
RA 04279		RA	CH	(3 4	31	14S	27E	567847	3657497*	7713	200		
RA 11944 POD1		RA	CH	1 4	1 2	01	14S	26E	566405	3666426 🌑	7901	200	90	110
RA 01767		RA	CH	3 4	1 1	12	14S	26E	565666	3664650*	7980	180		
RA 01359 S	0	RA	СН	2	1 1	13	14S	26E	565473	3663638*	8002	250		
RA 03796		RA	СН	4	1 2	06	15S	27E	568261	3656701*	8008	1400		
RA 04651		RA	СН	4	4 3	31	14S	27E	567442	3657492*	8014	200		
RA 01267 SUP	0	RA	СН	3 4	4 3	01	14S	26E	565659	3665455*	8209	287		
RA 12054 POD1		RA	СН	3 3	3 3	12	14S	26E	565224	3663809	8268	100	22	78
RA 03737		RA	СН	2 2	2 4	23	14S	26E	565093	3661214*	8492	70	41	29
RA 04437		RA	СН	2 2	2 4	23	14S	26E	565093	3661214*	8492	115	32	83
RA 01359 CLW	0	RA	СН	3 2	2 4	. 14	14S	26E	564878	3662627*	8557	135		
RA 01377		RA	СН	1 4	1 4	14	14S	26E	564882	3662424*	8560	165		
<u>RA 01377 S</u>		RA	СН	1 4	1 4	14	14S	26E	564882	3662424*	8560	265	90	175
RA 01359 CLW1	0	RA	СН	3 4	1 4	14	14S	26E	564882	3662224*	8571	135	65	70
RA 01395 ENLRG		RA	СН	3 4	1 4	. 14	148	26E	564882	3662224*	8571	100		

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	СН	1 4	4 23	14S	26E	564897	3660811*	8768	100	14	86
RA 04106 S		RA	СН	1 4	4 23	14S	26E	564897	3660811*	8768	135	30	105
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		
<u>RA 01375 REPAR</u>	0	RA	СН	3	2 23	14S	26E	564587	3661515*	8941	132		
RA 01375 SUPPL	0	RA	СН	3	2 23	14S	26E	564587	3661515*	8941	132		

Average Depth to Water:

46 feet

Minimum Depth:

14 feet

Maximum Depth:

181 feet

Record 42 Count:

Basin/County Search:

County: Chaves

UTMNAD83 Radius Search (in meters):

Easting (X): 573433 Northing (Y): 3662815.87 Radius: 9000

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

7/23/21 11:04 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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



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

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

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

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

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 <u>District I</u> 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 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

Incident ID	nAPP2123158626
District RP	
Facility ID	
Application ID	

Release Notification

			Resp	onsi	ible Party	y		
Responsible	Party EOG	Resources, Inc).	OGRID 73	377			
	^{ne} Chase S				Contact Te	elephone 575-7	48-1471	
		Settle@eogre	sources.com		Incident #	(assigned by OCD)		
Contact mai	ling address	104 S. 4th Str	eet, Artesia, N	1M 8	8210			
			Location			ource		
Latitude <u>33</u>	.10151		(NAD 83 in dec	cimal de	Longitude _	-104.21302 nal places)		
Site Name Lo	ong Arroy	o OD State Co	om #2		Site Type V	Vell		
Date Release	Discovered	08/18/2021			API# (if app	olicable) 30-005-	-61729	
Unit Letter	Section	Township	Range		Coun	nty		
L	14	14S	27E	Cha	ives			
	Materia	Federal Tr	Nature and	l Vo	lume of I		volumes provided below)	
Crude Oi	1	Volume Release	^{d (bbls)} Unknov	vn		Volume Recov		
✓ Produced	l Water	Volume Release	^{d (bbls)} Unknov	vn		Volume Recovered (bbls) 0		
		Is the concentrate produced water	ion of dissolved c >10.000 mg/l?	hlorid	e in the	Yes No)	
Condensate Volume Released (bbls)						Volume Recov	vered (bbls)	
☐ Natural Gas Volume Released (Mcf)						Volume Recov	vered (Mcf)	
Other (de	escribe)	Volume/Weight	Released (provide	e units)	Volume/Weigh	nt Recovered (provide units)	
Cause of Re	tor P& the im	A on 07/19/202	21. EOG contra 3/2021 their def	acted termii	i a third par nation was	rty environmei made that ba	alves during the preparation work ntal consultant to investigate ised on the size of the impacted plume.	

Received by OCD: 11/30/2021/6213321/PM State of New Mexico
Page 2 Oil Conservation Division

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Incident ID	NAPP2123158626
District RP	
Facility ID	
Application ID	

337	ICVEC C -1 -1 -4					
Was this a major release as defined by	If YES, for what reason(s) does the respon	isible party consider this a major release?				
19.15.29.7(A) NMAC?						
1311012317 (11) 111111111111						
☐ Yes ☑ No						
If VEC was immediate n	etics given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?				
II 1 E5, was illillediate in	once given to the OCD: By whom: 10 wi	ioni? When and by what means (phone, eman, etc)?				
	L.:42.1 D					
	Initial Ro	esponse				
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury				
The source of the rele	ease has been stopped.					
	**	the anxionment				
	is been secured to protect human health and					
Released materials ha	ave been contained via the use of berms or c	likes, absorbent pads, or other containment devices.				
All free liquids and re	ecoverable materials have been removed and	d managed appropriately.				
If all the actions describe	d above have <u>not</u> been undertaken, explain	why:				
		emediation immediately after discovery of a release. If remediation				
		efforts have been successfully completed or if the release occurred				
within a lined containmen	nt area (see 19.15.29.11(A)(5)(a) NMAC), p	lease attach all information needed for closure evaluation.				
		best of my knowledge and understand that pursuant to OCD rules and				
		fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have				
		at to groundwater, surface water, human health or the environment. In				
	f 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	Title: Rep Safety & Environmental Sr				
Signature: Chase Settle Date: 08/18/2021						
email: Chase Settle	@eogresources.com	Telephone: 575-748-1471				
eman	<u></u>	rerephone.				
OCD O						
OCD Only						
Received by: Ramona	n Marcus	Date: 8/20/2021				
, <u> </u>						

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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.

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 Settle Title: Rep Safety & Environmental Sr Signature: Chase Settle Date: 11/30/2021 Email: Chase Settle@eogresouces.com Telephone: 575-748-1471 OCD Only Received by: Date: D	Closure Report Attachment Checklist: Each of the following items	s must be included in the closure report.
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 rule 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 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 Settle	A scaled site and sampling diagram as described in 19.15.29.11 N	IMAC
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rule 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 Settle Title: Rep Safety & Environmental Sr Signature: Chase Settle Title: Rep Safety & Environmental Sr Signature: Date: 11/30/2021 Email: Chase Settle@eogresouces.com Telephone: 575-748-1471 OCD Only Received by: Date: Date: 11/30/2021 Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate ar remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsib party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date: 01/26/2022		the liner integrity if applicable (Note: appropriate OCD District office
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rule 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 Settle Title: Rep Safety & Environmental Sr Signature: Chase Settle Date: 11/30/2021 Email: Chase Settle@eogresouces.com Telephone: 575-748-1471 OCD Only Received by: Date: Date: 11/30/2021 Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate ar remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsib party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Jamifur Mobius Date: 01/26/2022	☐ Laboratory analyses of final sampling (Note: appropriate ODC Dis	strict office must be notified 2 days prior to final sampling)
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 Settle Title: Rep Safety & Environmental Sr Signature: Chase Settle Date: 11/30/2021 Email: Chase Settle@eogresouces.com Telephone: 575-748-1471 OCD Only Received by: Date: D	☐ Description of remediation activities	
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 Settle Title: Rep Safety & Environmental Sr Signature: Chase Settle Date: 11/30/2021 Email: Chase Settle@eogresouces.com Telephone: 575-748-1471 OCD Only Received by: Date: D		
Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate ar 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:	may endanger public health or the environment. The acceptance of a C-should their operations have failed to adequately investigate and remedi human health or the environment. In addition, OCD acceptance of a C-compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the conditi accordance with 19.15.29.13 NMAC including notification to the OCD Printed Name: Chase Settle Title: Signature: Chase Settle Title: Chase Settle Title: Chase Settle Title: Title: Title: Chase Settle Title: Title:	2-141 report by the OCD does not relieve the operator of liability iate contamination that pose a threat to groundwater, surface water, 141 report does not relieve the operator of responsibility for as. The responsible party acknowledges they must substantially the constant existed prior to the release or their final land use in when reclamation and re-vegetation are complete. Rep Safety & Environmental Sr Date: 11/30/2021
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate ar 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: 01/26/2022	OCD Only	
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:	Received by:	Date:
	remediate contamination that poses a threat to groundwater, surface wate	er, human health, or the environment nor does not relieve the responsible
	Closure Approved by: Jennifer Nobili	Date: 01/26/2022
		Title: Environmental Specialist A



APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION





Photograph No.1 Description:

Aerial View of Location



Description:

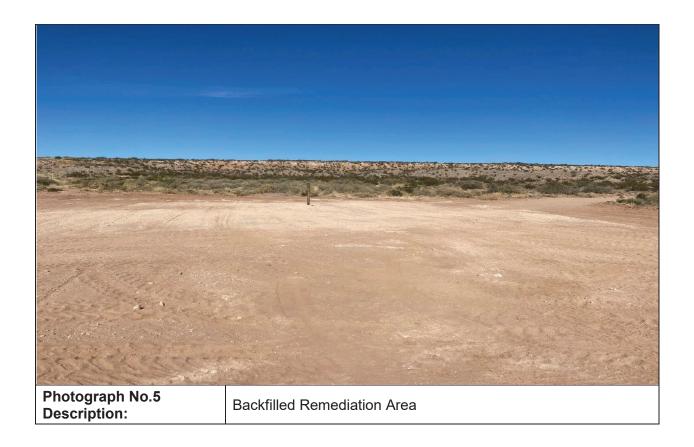
View of Impacted Area at Well Head













<u>APPENDIX V</u>

LABORATORY DATA



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

August 17, 2021

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

RE: Long Arroyo OD St COM 2

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 Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2108369

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1 0.5'R

Project: Long Arroyo OD St COM 2

Collection Date: 8/5/2021 12:45:00 PM

Lab ID: 2

2108369-001

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					Analysi	: VP
Chloride	58000	3000	mg/Ko	1E	+ 8/12/2021 8:55:43 PM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	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

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
- ID Not Detected at the Reporting Limit
- PQL 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 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'

Project:

Long Arroyo OD St COM 2

Collection Date: 8/5/2021 12:55:00 PM

Lab ID:

2108369-002

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	3400	150	mg/Kg	50	8/12/2021 9:08:04 PM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	15	9.8	mg/Kg	1	8/10/2021 6:31:37 PM	61856
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/10/2021 6:31:37 PM	61856
Surr: DNOP	107	70-130	%Rec	1	8/10/2021 6:31:37 PM	61856
EPA METHOD 8015D: GASOLINE RANGE					Analyst	mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/11/2021 1:25:00 AM	61849
Surr: BFB	93.2	70-130	%Rec	1	8/11/2021 1:25:00 AM	61849
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
- D Not Detected at the Reporting Limit
- PQL Practical Quantitative 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

Analytical Report Lab Order 2108369

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-2 0-1'

Project:

Long Arroyo OD St COM 2

Collection Date: 8/5/2021 1:00:00 PM

Lab ID:

2108369-003

Matrix: SOIL

Received Date: 8/7/2021 9:10:00 AM

			V. 19 10 10			
Analyses	Result	RL	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 ORG	ANICS				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

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
- PQL Practical Quantitative 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

Page 3 of 9

Analytical Report
Lab Order 2108369

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-3 0-1'

Project:

Long Arroyo OD St COM 2

Collection Date: 8/5/2021 1:05:00 PM

Lab ID:

2108369-004

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	23000	1500	mg/Kg	500	8/12/2021 9:20:25 PM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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 4 of 9

Analytical Report Lab Order 2108369

Date Reported: 8/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-4 0-1'

Project:

Long Arroyo OD St COM 2

Collection Date: 8/5/2021 1:10:00 PM

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 OR	GANICS					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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL 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 5 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

2108369

17-Aug-21

Client:

Talon Artesia

Project:

Long Arroyo OD St COM 2

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

HighLimit

SeqNo: 2836571

Units: mg/Kg

Analyte

PQL

SPK value SPK Ref Val %REC LowLimit

%RPD

Qual

Chloride

ND 1.5

Sample ID: LCS-61909

SampType: LCS

14

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Prep Date: 8/11/2021

Batch ID: 61909

RunNo: 80443

Units: mg/Kg

Analysis Date: 8/11/2021

SeqNo: 2836572

Analyte

SPK value SPK Ref Val

%REC LowLimit HighLimit

%RPD **RPDLimit** Qual

RPDLimit

Chloride

1.5 15.00

93.4

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н Not Detected at the Reporting Limit ND

Practical Quanitative Limit POL

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

2108369

17-Aug-21

Client:

Talon Artesia

Project: Long A	rroyo OD S	t COM	2							
Sample ID: MB-61856	Samp	Гуре: М	BLK	Te	stCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batc	h ID: 61	856	i	RunNo: 8	0429				
Prep Date: 8/9/2021	Analysis E	Date: 8	/10/2021		SeqNo: 2	836040	Units: mg/l	√ g		
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	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batcl	h ID: 61	856	F	RunNo: 8	0429				
Prep Date: 8/9/2021	Analysis D	ate: 8/	10/2021	5	SeqNo: 2	836041	Units: mg/h	(g		
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	SampT	ype: ME	BLK	Tes	tCode: Ei	PA Method	8015M/D: Did	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 61	937	F	RunNo: 80	0519				
Prep Date: 8/12/2021	Analysis D	ate: 8/	13/2021	8	SeqNo: 28	838860	Units: mg/K	g		
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	11		10.00	_	108	70	130			
Sample ID: LCS-61937	SampT	ype: LC	s	Tes	lCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 619	937	F	RunNo: 80)519				
Prep Date: 8/12/2021	Analysis D	ate: 8/°	13/2021	S	SeqNo: 28	338861	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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

2108369

17-Aug-21

Client:

Talon Artesia

Project:

Analyte

Surr: BFB

Gasoline Range Organics (GRO)

Long Arroyo OD St COM 2

Result

25

990

PQL 5.0

Sample ID: mb-61849	SampType: MBLK	TestCode: EPA Metho	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 61849	RunNo: 80440								
Prep Date: 8/9/2021	Analysis Date: 8/10/2021	SeqNo: 2835420	Units: mg/Kg							
Analyte	Result PQL SPK va	lue SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual						
Gasoline Range Organics (GRO)	ND 5.0									
Surr: BFB	850 10	00 85.0 70	130							
Sample ID: Ics-61849	SampType: LCS	TestCode: EPA Method	1 8015D: Gasoline Rang	je						
Client ID: LCSS	Batch ID: 61849	RunNo: 80440								
Prep Date: 8/9/2021	Analysis Date: 8/10/2021	SeqNo: 2835422	Units: mg/Kg							

0

%REC

99.0

98.6

LowLimit

78.6

70

HighLimit

131

130

%RPD

RPDLimit

Qual

SPK value SPK Ref Val

25.00

1000

Qualifiers:

Value exceeds Maximum Contaminant Level.

O Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

2108369

17-Aug-21

Client:

Talon Artesia

Project:

Long Arroyo OD St COM 2

Sample ID: mb-61849	SampT	ype: ME	BLK	Tes						
Client ID: PBS	Batcl	1 ID: 61	849	F	RunNo: 8	0440				
Prep Date: 8/9/2021	Analysis D	ate: 8/	10/2021	S	SeqNo: 2	835564	Units: mg/K	g		
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			

Sample ID: Ics-61849	SampT	ype: LC	S	Tes						
Client ID: LCSS	Batch	n ID: 61	849	F	RunNo: 8	0440				
Prep Date: 8/9/2021	Analysis D	ate: 8/	10/2021	8	SeqNo: 2	835565	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.4	80	120			
Toluene	0.96	0.050	1.000	0	95.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.2	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.1	70	130			

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

PQL 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 9 of 9



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	Talon Artesia	Work Order Nu	mber: 2108369		RcptNo: 1	
Received By:	Sean Livingston	8/7/2021 9:10:00	AM	5-4	s ol-	
Completed By:	Sean Livingston	8/7/2021 10:19:2	ОАМ	5-li 5-li	,	*
Reviewed By:	A 08/07/2021			Dr-11	John	
Chain of Cus	tody		6			
1. Is Chain of C	ustody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In						
	pt made to cool the sampl	es?	Yes 🗹	No 🗌	NA 🗌	
2						
4. Were all samp	oles received at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No 📙	NA 🗌	
5. Sample(s) in p	proper container(s)?		Yes 🗹	No 🗌		
0.0.0						
	ple volume for Indicated te except VOA and ONG) pro	VEX.150	Yes 🔽	No ∐		
	ive added to bottles?	peny preserved?	Yes ☑ Yes ☐	No ∐ No ☑	NA 🗌	
o. Frao prodorsas	and added to bottles?		1.62	NO E	NA LI	
9. Received at lea	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes 🔲	No 🗌	NA 🗹	
10. Were any sam	ple containers received br	oken?	Yes 📙	No 🗹 「	# of preserved	
11. Does paperwor	k match bottle labels?		Yes 🗸	No 🗆	bottles checked for pH:	
	ncies on chain of custody)		165 🖭			unless noted)
	prrectly identified on Chain	9.51	Yes 🗹	No 🗌	Adjusted?	
	analyses were requested?		Yes 🗹	No 🗌		
	g times able to be met? stomer for authorization.)		Yes 🗹	No 🗆	Checked by: 564	281714
	ng (if applicable)					
	fied of all discrepancles wi	th this order?	Yes 🗌	No 🗌	NA 🗹	
	Tay Co.			140	NA V	
Person N By Whon	7	Date:	1	none [] Fax [In Person	
Regardin		A ICT.		ione 🗀 rax [III Feison	
Ĭ.	tructions:	· · · · · · · · · · · · · · · · · · ·	·	A SON	**************************************	
16. Additional rem	arks:		44			
7. <u>Cooler Inform</u>	ation					
Cooler No	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Seal Intact Seal No	Seal Date	Signed By		
= 1 = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1	0.6 Good					
	2.8 Good 4.7 Good	<u> </u>				
i	The second secon		<u>l</u>			

Re	ceive	d by	OCL): 11	/30/	202	1 6:13:2	21 PM			_		_	1		1					Page	? 45 (
	HALL ENVIRONMENTAL	■ ANALYSIS LABORATORY	www.hallenvironmental.com	₹	1el. 505-345-3975 Fax 505-345-4107	Alialysis Request)	0		_	+				Fig.			Remarks: Direct Bill To EOG Resources ATTN Chase Settle	2.910 - 2.8	0.6 HO 10.6 2.4 HO 112 H	
4-Day	Rush		Ope Arroyo OD St. Com #2 // cm Arroys	COLLI #2 (LOIIG ACTOYO OLL)	700438268		9	- 2		vative THEALNO P			38	300		5			te Time	2 830 Halal	Date Time $\mathbb{R}^{(7/2)}$	aboratories. This serves as notice of this possibi
Tum-Around Time:	☐ Standard □	ject Name:	- I ond Arrovo OD St	Project #:	7007	Project Manager:	2000 W	Sampler: M. Collier		Container Preservative Type and #	1								Received by: Via:	7	received by: Via: *	I contracted to other accredited is
Chain-of-Custody Record			408 W. Texas Ave		8768		□ Level 4 (Full Validation)			Sample Name	S-10.5'R	BG-1 0-1'	BG-2 0-1'	BG-3 0-1'	BG-4 0-1'				d by:	LAN	u cy.	nitted to Hal! Environmental may be subc
hain-of-Cu	Talon LPE		Address:	NM 88210	575.746.8768	Fax#.	ackage: ard	ation: Az Compliance C	ype)	Time Matrix	12:45 Soil	12:55	1:00	1:05	1:10				Time: Relinquished	550 MAZ/2	0	ecessary, samples subm
ت Re	Client:	d to	Mailing Address:	Artesia, 1	# auoud /2	email or	OA/OC Package: 5:1 Standard	Accreditation:	□ EDD (Type)	Date 1	8/5/2021	*****							 	169 C	78	F F F



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.

Celeg & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: Reported: 11/11/2021

11/16/2021

LONG ARROYO OD STATE COM 2 (ARRO

Project Name: Project Number:

700438.268.01

Project Location:

EOG - CHAVES CO NM

Sampling Date:

11/10/2021

Sampling Type: Soil Sampling Condition:

Sample Received By:

Cool & Intact

Yvonne Muniz

Sample ID: SW 4' (H213221-01)

BTEX 8021B	mg/	kg	Analyze	ed By: MS	1021				
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	93.99	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	88	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/11/2021	ND	432	108	400	3.64	
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	11/11/2021	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 %	6 44.3-133	3						
Surrogate: 1-Chlorooctadecane	105 %	38.9-142	?						

Cardinal Laboratories

*=Accredited Analyte

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Celley D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 16



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:

BTEX 8021B

11/16/2021

Sampling Type:

Soil

Project Name:

LONG ARROYO OD STATE COM 2 (ARRO

Sampling Condition:

Cool & Intact

Project Number:

700438.268.01

700 1501200101

mg/kg

Sample Received By:

Yvonne Muniz

Project Location:

EOG - CHAVES CO NM

Sample ID: NW 4' (H213221-02)

BIEX 8021B	mg/	ĸg	Analyzed by: 113						
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	94.6	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	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	1		_				
Surrogate: 1-Chlorooctadecane	95.99	6 38.9-142	ı						

Analyzed By: MS

Cardinal Laboratories

*=Accredited Analyte

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

Celey & Krene

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 16



Analytical Results For:

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

Received:

11/11/2021

Sampling Date:

11/10/2021

Reported:

Sampling Type:

Project Name:

11/16/2021

Soil

LONG ARROYO OD STATE COM 2 (ARRO 700438.268.01

Sampling Condition: Sample Received By: Cool & Intact Yvonne Muniz

Project Number: Project Location:

EOG - CHAVES CO NM

Sample ID: WW 4' (H213221-03)

BTEX 8021B	mg/	kg	Analyzo	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	93.69	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	16.0	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	108 %	<i>44.3-13</i> :	3						
Surrogate: 1-Chlorooctadecane	117%	38.9-142	2						

Cardinal Laboratories

*=Accredited Analyte

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

Celen Strene

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 16



Analytical Results For:

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

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

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	93.3 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	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	3						
Surrogate: 1-Chlorooctadecane	95.79	6 38.9-142	?						

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 16



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:

Soil

BTEX 8021B

Project Name: Project Number: LONG ARROYO OD STATE COM 2 (ARRO 700438.268.01

Sampling Condition: Sample Received By: Cool & Intact Yvonne Muniz

Project Location:

EOG - CHAVES CO NM

mg/kg

103 %

38.9-142

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

- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 %	69.9-14	0		-				
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC	-	<u> </u>			·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Quallfier
Chloride	224	16.0	11/11/2021	ND	432	108	400	3.64	
TPH 8015M	mg/i	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 44.3-133	3						

Analyzed By: MS

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 6 of 16



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 (ARRO

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	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			16		
Surrogate: 4-Bromofluorobenzene (PIL	94.0 9	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	32.0	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	94.5 %	6 44.3-13.	3	<u>. </u>	-37				
Surrogate: 1-Chlorooctadecane	92.3 9	6 38.9-142	?						

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Celey D. Keene, Lab Director/Quality Manager

Page 7 of 16



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:

Project Name:

11/16/2021

Sampling Type:

Soil

Project Number:

LONG ARROYO OD STATE COM 2 (ARRO 700438.268.01

Sampling Condition:

Cool & Intact

Project Location:

EOG - CHAVES CO NM

Sample Received By:

Yvonne Muniz

Sample ID: WG 4' (H213221-07)

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	93.4 9	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	224	16.0	11/11/2021	ND	432	108	400	3.64	
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	11/11/2021	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					
Surrogaie: 1-Chlorooctane	103 %	<i>44.3-13.</i>	3			-			
Surrogate: 1-Chlorooctadecane	99.1%	6 38.9-142	2						

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Celey D. Keene, Lab Director/Quality Manager

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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:

DTEV GADID

11/16/2021

Sampling Type:

Soll

Project Name:

LONG ARROYO OD STATE COM 2 (ARRO

Sampling Condition:

Cool & Intact

Project Number:

700438.268,01

ma (ka

Sample Received By:

Yvonne Muniz

Project Location:

EOG - CHAVES CO NM

Sample ID: EG 4' (H213221-08)

BTEX 8021B	mg	/kg	Analyz	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	93.9	% 69.9-14	0	¥					
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed 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	Qualifler
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 <u>3</u>							
Surrogate: 1-Chlorooctadecane	104 %	6 38.9-142	?						

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Celey D. Keene, Lab Director/Quality Manager



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:

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	Analyzo	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	93.2 %	69.9-14	0			_			
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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/i	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	105 %	5 44.3-13:	3				·		_
Surrogate: 1-Chlorooctadecane	101 %	38.9-142	2						

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Celey D. Keene, Lab Director/Quality Manager

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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:

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: NG 4' (H213221-10)

BTEX 8021B	mg/	kg	Analyza	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	95.19	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed 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	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	100 %	6 44.3-13.	}	-					
Surrogate: 1-Chlorooctadecane	96.3 %	6 38.9-142	?						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 11 of 16



Analytical Results For:

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

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

Project Number:

700438,268,01

Sampling Condition: Sample Received By: Cool & Intact Yvonne Muniz

Project Location:

EOG - CHAVES CO NM

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

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	93.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						<u>.</u>
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/	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	92.2 9	6 44.3-133	3						
Surrogate: 1-Chlorooctadecane	88.49	6 38.9-142	?						

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Celey D. Keene, Lab Director/Quality Manager

Page 12 of 16



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:

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: 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	Analyze	ed 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	
ТРН 8015М	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	104 %	<i>44.3-13.</i>	3						
Surrogate: 1-Chlorooctadecane	100 %	38.9-14	2						

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*=Accredited Analyte

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

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Celey D. Keene, Lab Director/Quality Manager

Page 13 of 16



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.
ē	Chloride by SM4500Cl-8 does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 14 of 16

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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ANALYSIS REQUEST	The Art Control of the Control of th	Pro
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Page 15 of 16

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Yes

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Sampler - UPS - Bus - Other:

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

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Delivered By: (Circle One)



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler Name: M. Garcia Project Location: Chaves County Project Name: Long Arroyo OD State Com 2 (Arroyo 2) Project #: 700438,268,01 Phone #: 575.746.8768 Address: 408 W. Texas Ave Company Name: Talon LPE Project Manager: ATMO EST BYT BOY Lab I.D. Artesia NW-B Sample I.D. ググ Fax #: Project Owner, EOG State: NM Zip: 88210 (G)RAB OR (C)OMP, # CONTAINERS GROUNDWATER WASTEWATER MATRIX λ, SOIL SLUDGE State: OTHER: City: P.O. # Fax# Phone #: Attn: Address Company: ACID/BASE: PRESERV 大 大 ICE/COOL OTHER BILL TO 11-10-21 11:10 Ä 50:11 TC-01-11 DATE SAMPLING TIME Chlorides Ł BTEX ANALYSIS REQUEST

Page 16 of 16



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

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received:

11/12/2021

Sampling Date:

Sampling Condition:

11/11/2021

Reported:

11/16/2021

Sampling Type:

Soil

Project Name:

LONG ARROYO OD STATE COM 2 (ARRO

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	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					
Surrogate: 4-Bromofluorobenzene (PIL	93.8 %	6 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	97.2 %	6 44.3-133	3						
Surrogate: 1-Chlorooctadecane	97. 0 %	38.9-142	?						

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Celego Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 8



Analytical Results For:

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 (ARR(

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	Analyzo	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					
Surrogate: 4-Bromofluorobenzene (PIL	94.1 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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/	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	103 %	<i>44.3-13</i> 3	}				· · · · · · · · · · · · · · · · · · ·	100 M	
Surrogate: 1-Chlorooctadecane	104%	38.9-142	?						

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 8



Analytical Results For:

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

Received:

11/12/2021

Sampling Date:

11/11/2021

Reported:

BTEX 8021B

11/16/2021

Project Name:

Sampling Type:

Soil

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: WW - B 2' (H213235-03)

DIEX 8021B	ing	/kg	Attatyze	ed by: M5					
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	94.2	% 69.9-14	0	9					
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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/	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 %	6 44.3-133	3						
Surrogate: 1-Chlorooctadecane	106%	6 38.9-142	?						

Analyzed By: MS

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 8



Analytical Results For:

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

Soil

Project Name:

Sampling Type:

Cool & Intact

LONG ARROYO OD STATE COM 2 (ARRO 700438,268,01

Sampling Condition: Sample Received By:

Yvonne Muniz

Project Number: Project Location:

EOG - CHAVES CO NM

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

BTEX 8021B	mg/	kg	Analyzo	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	69.9-140)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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 %	3 44,3-133			<u> </u>				
Surrogate: 1-Chlorooctadecane	111 %	38.9-142							

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 8



Analytical Results For:

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 (ARRO

Cool & Intact

Project Number:

700438.268,01

Sampling Condition: 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	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 (PIL	94.2 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	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	98.0 %	6 44.3-133	}			· - · - · ·			
Surrogate: 1-Chlorooctadecane	102 %	38.9-142	?						

Cardinal Laboratories

*=Accredited Analyte

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Celley & Kenn

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 8

ND



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Refinquished By: Sampler - UPS - Bus - Other: Relinquished By: Delivered By: (Circle One) malyzes. All daims including those for negliges lenvice. In no event shall Cardinal be kable for Sampler Name: M. Garcia Project Location: Chaves County 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-8 2' S-9 2' WW-B 2' EB-2 4' EW-A 4' Sample I.D الر ف HO Date: 12 [2] 10.41 Time: Project Owner; EOG Fax #: State: NM Zip: 88210 Received By: Received By: (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER Sample Condition WASTEWATER SOIL MATRIX OIL SLUDGE loss of tase, or loss of profits inquired by olient, its subsidiarious OTHER State: Phone #: City: Attn: Company: P.O. #: Address: ACID/BASE: PRESERV CHECKED BY: ICE / COOL (Initials) OTHER: BILL TO Zip: DATE SAMPLING after completion of the applicable Fax Result: Phone Result Billy 50:1 1.00 TIME Chlorides YESU/75 to chase_settle@eogresources.com Yes N 8 BTEX Add'l Phone #.
Add'l Fax #. ANALYSIS I carnes@talentpercox REQUEST



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 accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received:

11/22/2021

Sampling Date:

11/19/2021

Reported:

11/23/2021

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 - 1A 4.5' (H213361-01)

BTEX 8021B	mg,	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
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	% 44.3-13.	3						
Surrogate: 1-Chlorooctadecane	79.8 9	6 38.9-142	2						

Cardinal Laboratories

*=Accredited Analyte

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



Analytical Results For:

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 - 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	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	93.79	69.9-14	0					-	
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	71.1 %	6 44,3-13.	3						
Surrogate: 1-Chlorooctadecane	68.1 9	6 38.9-14.	?						

Cardinal Laboratories

*=Accredited Analyte

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



Analytical Results For:

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 - 3A 4.5' (H213361-03)

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	11/22/2021	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	95.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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		(25)			
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				· ***	 	
Surrogate: 1-Chlorooctadecane	75.1 %	6 38.9-142	?						

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



Analytical Results For:

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

Received:

DTEV 9021D

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

ma/ka

Sample Received By:

Yvonne Muniz

Project Location:

EOG - CHAVES CO NM

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

BIEX 8021B	mg,	/кд	Anajyze	еа ву: мъ					
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	95.3	% 69.9-14	0	-	-				
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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/	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	84.2 9	6 44.3-135	3		0.00				
Surrogate: 1-Chlorooctadecane	80.69	6 38.9-142	?					2	

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



Analytical Results For:

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: EG - A 4.5' (H213361-05)

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	11/22/2021	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	% 69.9-14	0			-			
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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 5	% 44.3-13.	3		-				
Surrogate: 1-Chlorooctadecane	82.3 9	% 38.9-14.	2						

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*=Accredited Analyte

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

ND



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

Notes and Definitions

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature,

Chloride by 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

Analyte NOT DETECTED at or above the reporting limit

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

Time:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: Address: 408 W. Texas Ave	P.O.#:		Fig. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
Address: 408 W. Texas Ave				_
	Company:	_		_
city: Artesia state: NM zip: 88210	Attn:	17		
746.8768 Fax#	Address:			·
Project #: 700438.268.01 Project Owner: EOG				
Project Name: Long Arroyo OD State Com #2 (Arroyo 2)		-		
Project Location: Chaves County	Phone #	:		
Sampler Name: J. Carnes A. Parra	Fax #-	-		
XINITAW YANG BRU BAJ ROB	L			_
VATER				
(G)RAB (# CONTA GROUNI WASTEV SOIL	OIL. SLUDGE OTHER ACID/BA ICE / CO OTHER DATE	Ch! TP!		
(S-1A 4.5' C C	11-19-21	X X X VC II		
Z S-2A 4.5'		コー		
3,5-3A 4.5	9	12:29		
7 -	12	12:32		
S EG-A 4.5'	12	12:22		
	(a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c			
PLEASE NOTE: Catalay and Damazes. Catalay's liebley and clients extension property for any claim of the medical catalay and Damazes.				
unalyzes. All chains including those for repligence and any other cause whatcher shall be described waved unless made in whatch at it, a made of the applicate shall be described waved unless made in whiting and received by Cardinal with 30 days after completion of the applicate shallow in in a what shall be described and in whiting and received by Cardinal with 30 days after completion of the applicate shallows in in whiting and received by Cardinal with 30 days after completion of the application and the shallows made in the production of the application of	I would be also also as the second of the amount page of the service of the amount page of the service of the s	On use control the conficulties of the conficu		
		Phone Result: ☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:	
Relinquished By: Date: Received By:	The state of the s	B:11 to	chase_settle@engresocres.com	H07:
Time:				

ы 90

#113

Sample Condition

CHECKED BY: (Initials)

enail results jearnes@talonlpe.com

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

Sampler - UPS - Bus - Other. Delivered By: (Circle One)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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

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

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

CONDITIONS

Action 64357

CONDITIONS

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

CONDITIONS

Created By		Condition Date
jnobui	None	1/26/2022