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Closure Report

Black River – John D Forehand RD Crossing
Eddy County, New Mexico
Incident # NAPP2327753740

Prepared For:

Cimarex Energy Co.
6001 Deauville Blvd., Suite 300N
Midland, TX 79706

Prepared By:

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

January 18, 2024

**NMOCD**

506 W. Texas Ave
Artesia, NM 88210

Subject: **Closure Report**
Black River – John D Forehand RD Crossing
Eddy County, New Mexico
Incident # NAPP2327753740

To Whom It May Concern,

Cimarex Energy Co. (Cimarex) contracted Talon/LPE, Ltd. (Talon) to complete remediation and closure activities at the above referenced location. The incident description, soil and water sampling results, remedial actions, and closure request are presented herein.

Site Information

The Black River – John D Forehand RD Crossing is located approximately 13.85 miles South of Carlsbad, New Mexico. The legal location for this release is Unit Letter H, Section 18, Township 24S, and Range 27E in Eddy County, New Mexico. The latitude and longitude for the site is 32.219252, -104.222885. Site maps are 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 comprised of Karro loam with 0 to 3 percent slopes. The referenced soil data is presented in [Appendix III](#). Per the New Mexico Bureau of Geology and Mineral Resources, the local geology consists of older alluvial deposits of upland plains and piedmont areas, and calcic soils and eolian cover sediments of High Plains region. Drainage courses in this area are typically well drained.

Groundwater and Site Characterization

As the incident occurred on the Black River the depth to water is zero (0) feet below ground surface (bgs). The FEMA Flood Map Service Center locates the site within a 100-year flood plain. Further research of the Bureau of Land Management Karst data indicates that this site is situated within a high potential Karst area. See [Appendix III](#) for the site characterization data.

Site Characterization	
What is the shallowest depth to groundwater beneath the area affected by the release? (ft bgs)	0 ft
What method was used to determine the depth to groundwater? (Estimate/Temp. Well/POD)	On River
Did the release impact groundwater or surface water? (Yes/No)	Yes
Distance from a flowing watercourse or any other significant watercourse. (mi)	0.02 mi
Distance from any lakebed, sinkhole, or playa lake. (mi)	8.66 mi
Distance from an occupied permanent residence, school, hospital, institution, or church. (mi)	0.79 mi
Distance from a spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes. (mi)	0.26 mi
Distance from any fresh water well or spring. (mi)	0.57 mi
Distance from incorporated municipal boundaries or a defined municipal fresh water field. (mi)	7.46 mi
Distance from a wetland. (mi)	0.02 mi
Distance from a subsurface mine. (mi)	21.5 mi
Distance from (non-karst) unstable area. (mi)	17.0 mi
Categorize the risk of this well/site being in a karst geology. (None/Low/Medium/High/Critical)	High
Distance from a 100-year floodplain. (mi)	0.0 mi
Did the release impact areas not on an exploration, development, production, or storage site? (Yes/No)	Yes

Groundwater and Site Characterization (Continued)

Due to the shallow depth to water the responsible party must adhere to the most stringent Table I closure criteria listed below.

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

*Or other test methods approved by the division

**Numerical limits or natural background level, whichever is greater.

***This applies to releases of produced water or other fluids, which may contain chloride.

[19.15.29.12 NMAC - N, 8/14/2018]

Incident Description

On October 3, 2023, a third-party trucking company hauling 125 barrels (bbls.) of produced water overturned at the Black River and John D. Forehand Road river crossing. Approximately 65 bbls. of produced water released from the transport trailer to the environment, of which an unknown quantity entered the Black River. The remaining 60 bbls. of produced water were recovered from the overturned trailer. The initial C-141 was submitted to the NMOCD, and can be reviewed under incident number NAPP2327753740.

Site maps of the release are presented in [Appendix I](#). Initial C-141 spill notifications were filed with the NMOCD and are attached in [Appendix V](#).

Site Assessment Activities

On October 3, 2023, Talon personnel were mobilized to conduct an emergency site assessment of the subject location. Water samples were collected from four (4) points along the Black River. Cimarex personnel provided additional water samples collected from the overturned trailer and the tank battery the truck was hauling from. River sample positions were mapped with a global navigation satellite system (GNSS) device and photographed.

On October 4, 2023, Talon personnel returned to the subject location to conduct further assessment activities. Soil samples were collected from five (5) points in and around the impacted areas. Three (3) additional water samples were collected from the Black River and the Pecos River. All sample positions and impacted areas were mapped with a GNSS device and photographed.

On October 5, 2023, Talon collected one (1) additional water sample from the Black River. The sample position was mapped and photographed. Water samples were recollected from each point along the river for additional analysis of volatile organic compounds.

All water samples were packaged in laboratory provided bottles, preserved on ice, and transported with the chain of custody to Cardinal Laboratories in Hobbs, New Mexico for analysis of Inorganic Compounds (Bicarbonate Alkalinity, Method 310.1, Carbonate Alkalinity, 310.1, Total Alkalinity, 310.1, Chloride, 4500-Cl-B, Conductivity, 120.1, pH, Method 150.1, Temperature °C, 150.1, Sulfate, Method 375.4, and TDS Method 160.1), General Chemistry (Fluoride, EPA Method 300.0), and Total Recoverable Metals (Calcium, Magnesium, Potassium, Sodium, EPA Method 200.7). Water samples S-1 through S-8 were additionally analyzed for Volatile Organics (BTEX, EPA Method 8021B). The analytical results of the collected water samples are summarized in Table 2 within [Appendix II](#). A River Assessment map is presented in [Appendix I](#).

All soil samples were packaged in laboratory provided glassware, preserved on ice, and transported with the chain of custody to Cardinal Laboratories in Hobbs, New Mexico for analysis of Total Chlorides (Method SM4500Cl-B), Total Petroleum Hydrocarbons (TPH, EPA Method 8015M) and Volatile Organics (BTEX, EPA Method 8021B). Analytical results of the soil samples are summarized in Table 1 within [Appendix II](#). A Soil Assessment map is presented in [Appendix I](#).

Remediation Activities

From October 5 to October 11, 2023, Talon personnel excavated the impacted areas to depths up to 2.5 feet bgs. Field titration data of total chlorides was utilized to guide the vertical and horizontal extents of the excavation process. A hydrovac was utilized throughout the excavation process to remove chloride contamination from the gabion retaining wall and exposed bedrock. A catch basin was excavated and lined down gradient to collect all hydrovac runoff for proper disposal.

On October 12, 2023, Talon returned to the site to conduct a confirmation sampling event. A total of 16 composite samples were collected from the bottom and sidewalls of the excavations.

On October 18, 2023, based upon analytical results, a hydrovac was utilized to remove remaining contaminants from the bedrock in the areas of composite samples C-7 through C-10. Talon personnel held a meeting with the Eddy County Infrastructure Department to establish the guidelines needed to install new erosion control measures next to the road.

On October 23, 2023, Talon returned to the site to recollect composite samples C-7 through C-10.

All initial composite soil samples were packaged in laboratory provided glassware, preserved on ice, and transported with the chain of custody to Cardinal Laboratories in Hobbs, New Mexico for analysis of Total Chlorides (Method SM4500Cl-B), Total Petroleum Hydrocarbons (TPH, EPA Method 8015M) and Volatile Organics (BTEX, EPA Method 8021B). Additionally, composite samples C-3, C-4, and SW-2 underwent a full Toxicity Characteristic Leaching Procedure (TCLP) analysis.

Recollected composite samples C-7 through C-10 were packaged in laboratory provided glassware, preserved on ice, and transported with the chain of custody to Envirotech, Inc., in Farmington, New Mexico for analysis of Total Chlorides (EPA Method 300.0), Total Petroleum Hydrocarbons (TPH, EPA Method 8015D) and Volatile Organics (BTEX, EPA Method 8260B).

The sample results from the laboratory analysis are summarized in Table 3 and 4 within [Appendix II](#). Sample locations are illustrated on the Confirmation Sample map within [Appendix I](#) and complete laboratory analytical reports are presented in [Appendix VI](#).

A sample of the freshly excavated backfilled material was not collected at the time of backfill activities. On January 20, 2025, a review of the field activities for this project determined that a five-point composite sample needed to be collected from the backfilled material to be acceptable for NMAC 19.15.29.12/13. On January 20, 2025, Carmona Resources, LLC personnel were nearby this site and collected a five-point composite sample of the backfilled material. The composite sample was below the reclamation and regulatory requirements for TPH, BTEX, and chloride. Refer to Table 5.

Remedial Action Summary

- Eight (8) water samples were collected along the Black and Pecos Rivers and analyzed for Inorganic Compounds, General Chemistry, and Total Recoverable Metals to insure the release caused no detrimental contamination.
- The impacted area was excavated to depths up to 2.5 feet bgs.
- Approximately 127 cubic yards of contaminated soil was removed from the subject location.
- A hydrovac was used to flush chloride contaminants off of the northern gabion retaining wall and exposed bedrock into a lined catch basin. Contaminated water in the basin was removed via hydrovac.
- All contaminated material was transported to a NMOCD approved waste disposal facility.
- Pursuant to NMOCD guidelines, confirmation soil samples were collected at 200 square foot intervals and analyzed for TPH, BTEX and Total Chlorides to insure all remediated areas reached NMOCD closure criteria.
- With the approval of the Eddy County Infrastructure Department and land owner a new erosion control feature was installed in the excavated area south of the road.
- The excavated area north of the road was backfilled with new, nonimpacted topsoil, machine compacted, and contoured to match the surrounding terrain.
- Remediation activities were documented with photographs timestamped with GPS data. Photographic documentation is provided in [Appendix IV](#).
- Copies of the Initial C-141 and NMOCD correspondence are presented in [Appendix V](#).

Closure Request

Based upon the completed remedial actions and analytical sample results; on behalf of Cimarex Energy Co., we respectfully request that no further actions be required and the closure of this incident be granted.

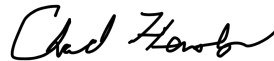
Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

Talon/LPE



Matthew Gomez
Project Manager



Chad Hensley
Senior Project Manager

Attachments:

Appendix I Site Maps
Appendix II Analytical Data Tables
Appendix III Site Characterization
Appendix IV Photographic Documentation
Appendix V C-141 Forms, NMOCD Correspondence
Appendix VI Laboratory Reports



Appendix I

Site Maps



Drafted: 1/10/2024
1 in = 30 ft
Drafted By: IJR

Cimarex Energy Co.
Black River – John D Forehand RD Crossing
Eddy County, NM
Soil Assessment Map



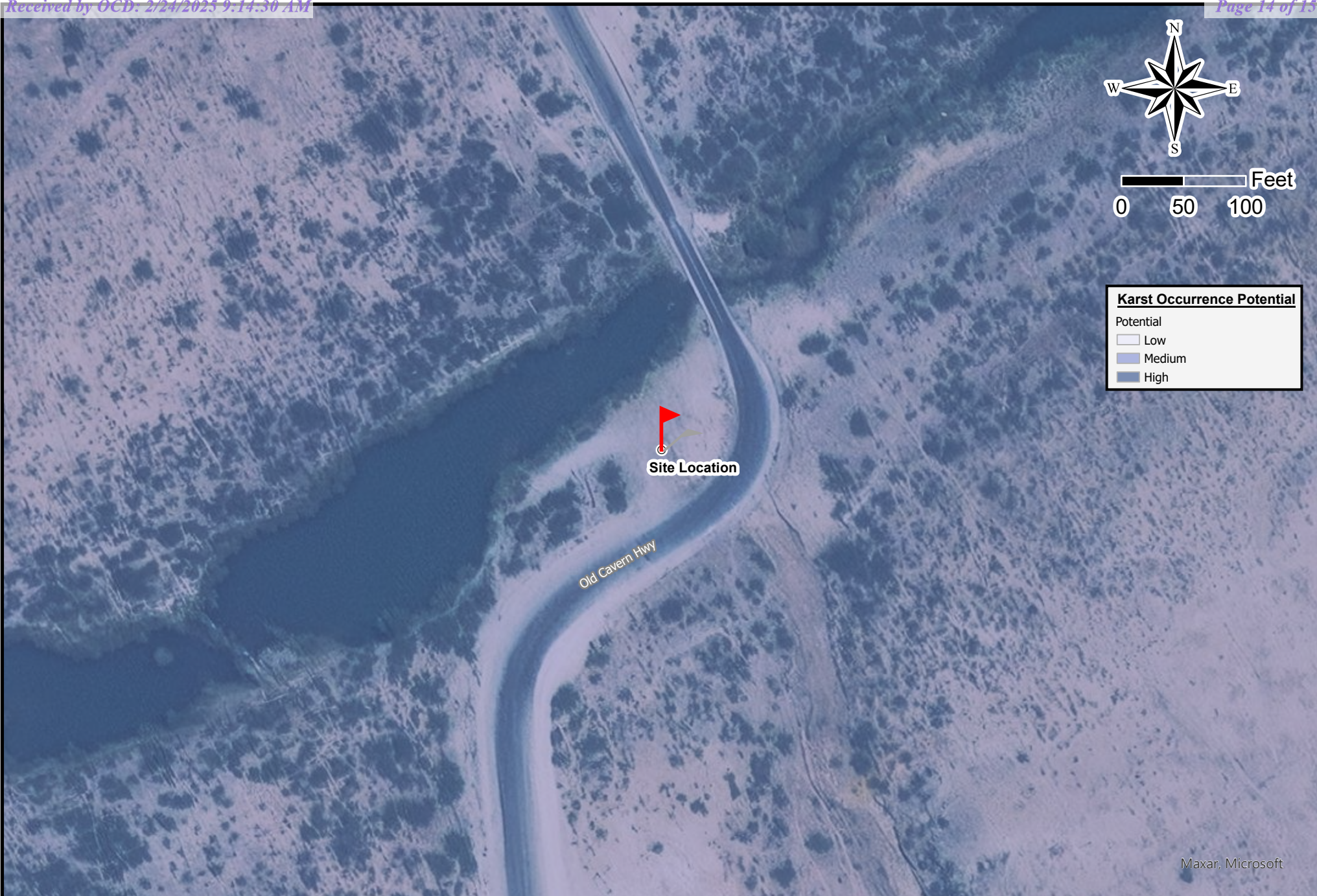
Drafted: 1/10/2024
1 in = 30 ft
Drafted By: IJR

Cimarex Energy Co.
Black River – John D Forehand RD Crossing
Eddy County, NM
Confirmation Map



Drafted: 1/12/2024
1 in = 10,000 ft
Drafted By: IJR

Cimarex Energy Co.
Black River – John D Forehand RD Crossing
Eddy County, NM
River Assessment Map



Drafted: 1/10/2024
1 in = 100 ft
Drafted By: IJR

Cimarex Energy Co.
Black River – John D Forehand RD Crossing
Eddy County, NM
Karst Map OCD

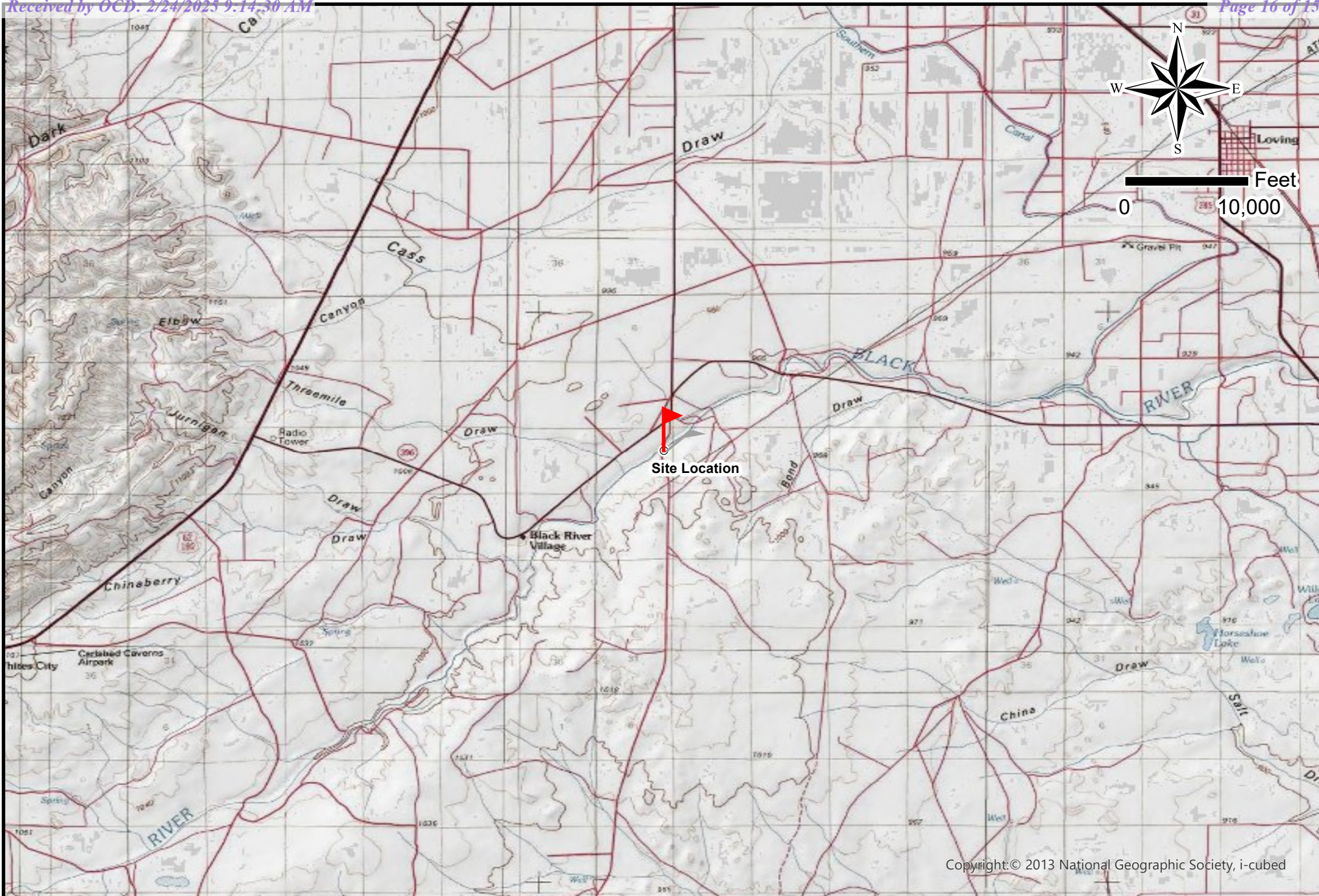


Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Earthstar Geographics



Drafted: 1/10/2024
1 in = 17,000 ft
Drafted By: IJR

Cimarex Energy Co.
Black River – John D Forehand RD Crossing
Eddy County, NM
Location Map



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Drafted: 1/10/2024
1 in = 10,000 ft
Drafted By: IJR

Cimarex Energy Co.
Black River – John D Forehand RD Crossing
Eddy County, NM
Topographic Map



Appendix II

Analytical Data Tables

Table 1

Soil Assessment Samples
Incident # NAPP2327753740

Black River – John D Forehand RD Crossing									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	10/4/2023	0-1'	ND	ND	ND	ND	ND	-	576
	10/4/2023	1.5'R	ND	ND	ND	ND	ND	-	544
S-2	10/4/2023	0-1'R	ND	ND	ND	ND	ND	-	48.0
S-3	10/4/2023	0-.5'R	ND	ND	ND	ND	ND	-	384
S-4	10/4/2023	0-1'R	ND	ND	ND	ND	ND	-	976
S-5	10/4/2023	0-1'R	ND	ND	ND	ND	ND	-	976

NOTES:

BGS Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
MRO Motor oil range organics
S Sample
R Refusal
ND Analyte Not Detected

**Highlighted cells indicate exceedance of NMOCD Table
1 Closure Criteria**

Table 2

Water Samples
Incident # NAPP2327753740

Black River – John D Forehand RD Crossing											
Sample ID		S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	Tanker	Water Tank
Sample Date		10/3/2023	10/3/2023	10/3/2023	10/4/2023	10/3/2023	10/4/2023	10/4/2023	10/5/2023	10/3/2023	10/3/2023
Sample Location		Upstream	Source	Downstream	Davis Ranch 24hr	Higby Hole	Pecos Intersection	Pecos River	Davis Ranch 36hr	Tanker	Water Tank
Inorganic Compounds	Alkalinity, Bicarbonate mg/L	190	200	210	181	156	220	205	146	210	220
	Alkalinity, Carbonate mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Alkalinity, Total mg/L	156	164	172	148	128	180	168	120	172	180
	Chloride mg/L	20	24	28	16	410	1320	1280	20	83000	74000
	Conductivity umhos/cm @ 25°C	1590	1610	1630	1600	2820	6300	5810	1630	156000	157000
	pH pH Units	7.92	7.86	7.89	7.76	7.70	8.05	8.11	7.88	6.24	6.39
	Temperature °C	18.8	18.8	17.0	17.5	19.9	19.2	18.8	18.7	18.8	18.7
	Sulfate mg/L	963	954	834	788	888	1560	1520	796	251	296
	TDS mg/L	1440	1430	1450	1340	2080	4470	4220	1420	118000	121000
General Chemistry	Fluoride mg/L	0.340	0.360	0.328	0.346	0.505	ND	ND	0.326	ND	ND
Total Recoverable Metals by ICP (E200.7)	Calcium mg/L	299	302	302	300	300	458	441	291	4980	5240
	Magnesium mg/L	45.2	45.5	47.9	48.6	69.2	199	186	47.7	836	884
	Potassium mg/L	ND	2.12	ND	ND	ND	ND	ND	ND	690	684
	Sodium mg/L	15.3	19.5	21.0	15.7	236	692	651	17.3	38200	39100
Sample Date		10/5/2023	10/5/2023	10/5/2023	10/5/2023	10/5/2023	10/5/2023	10/5/2023	10/5/2023		
Volatile Organic Compounds by EPA Method 8021	Benzene mg/L	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT
	Toluene mg/L	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT
	Ethylbenzene mg/L	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT
	Total Xylenes mg/L	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT
	Total BTEX mg/L	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT

NOTES:

mg/L Milligrams per liter
S Sample
ND Analyte not detected
NT Analyte not tested

Table 3

Confirmation Samples
Incident # NAPP2327753740

Black River – John D Forehand RD Crossing									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
C-1	10/12/2023	1.5'	ND	ND	ND	ND	ND	-	144
C-2	10/12/2023	1.5'	ND	ND	ND	ND	ND	-	192
C-3	10/12/2023	2.5'	ND	ND	ND	ND	ND	-	176
C-4	10/12/2023	2'	ND	ND	ND	ND	ND	-	80.0
C-5	10/12/2023	2'	ND	ND	ND	ND	ND	-	144
C-6	10/12/2023	2.5'	ND	ND	ND	ND	ND	-	144
C-7	10/12/2023	1.5'	ND	ND	ND	ND	ND	-	1620
	10/23/2023	1.5'	ND	ND	ND	ND	ND	-	327
C-8	10/12/2023	0.5'	ND	ND	ND	ND	ND	-	928
	10/23/2023	0.5'	ND	ND	ND	ND	ND	-	534
C-9	10/12/2023	0.5'	ND	ND	ND	ND	ND	-	3080
	10/23/2023	0.5'	ND	ND	ND	32.6	50.6	83.2	542
C-10	10/12/2023	0.5'	ND	ND	ND	ND	ND	-	1310
	10/23/2023	0.5'	ND	ND	ND	35.7	60.9	96.6	537
SW-1	10/12/2023	-	ND	ND	ND	ND	ND	-	544
SW-2	10/12/2023	-	ND	ND	ND	ND	ND	-	96.0
SW-3	10/12/2023	-	ND	ND	ND	ND	ND	-	128
SW-4	10/12/2023	-	ND	ND	ND	ND	ND	-	48.0
SW-5	10/12/2023	-	ND	ND	ND	ND	ND	-	32.0
SW-6	10/12/2023	-	ND	ND	ND	ND	ND	-	288

NOTES:

BGS Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
MRO Motor oil range organics
C Confirmation Sample
SW Sidewall Sample
ND Analyte Not Detected

**Highlighted cells indicate exceedance of NMOCD Table
1 Closure Criteria**

Table 4

TCLP Samples
Incident # NAPP2327753740
Black River – John D Forehand RD Crossing

Sample ID		C-3	C-4	SW-2
Sample Date		10/12/2023	10/12/2023	10/12/2023
Depth (BGS)		2.5'	2'	-
Inorganic Compounds	Chloride mg/kg	176	80.0	96.0
	Ignitability °F	ND	ND	ND
	pH pH Units	7.73	7.91	7.71
	Temperature °C	18.6	18.6	18.6
	Reactive Cyanide mg/kg	ND	ND	ND
	Reactive Sulfide mg/kg	0.0700	0.0500	0.0500
TCLP Semivolatile Organic Compounds by GCMS	Pyridine mg/L	ND	ND	ND
	1,4-Dichlorobenzene mg/L	ND	ND	ND
	2-Methylphenol mg/L	ND	ND	ND
	4-Methylphenol mg/L	ND	ND	ND
	Hexachloroethane mg/L	ND	ND	ND
	Nitrobenzene mg/L	ND	ND	ND
	Hexachlorobutadiene mg/L	ND	ND	ND
	2,4,6-Trichlorophenol mg/L	ND	ND	ND
	2,4,5-Trichlorophenol mg/L	ND	ND	ND
	2,4-Dinitrotoluene mg/L	ND	ND	ND
	Hexachlorobenzene mg/L	ND	ND	ND
	Pentachlorophenol mg/L	ND	ND	ND
	Vinyl Chloride mg/L	ND	ND	ND
TCLP Volatile Organic Compounds by EPA Method 1311/8260B	2-Butanone mg/L	ND	ND	ND
	1,1-Dichloroethene mg/L	ND	ND	ND
	Chloroform mg/L	ND	ND	ND
	Carbon Tetrachloride mg/L	ND	ND	ND
	Benzene mg/L	ND	ND	ND
	1,2-Dichloroethane mg/L	ND	ND	ND
	Trichloroethene mg/L	ND	ND	ND
	Tetrachloroethene mg/L	ND	ND	ND
	Chlorobenzene mg/L	ND	ND	ND
	1,4 Dichlorobenzene mg/L	ND	ND	ND

Table 4

TCLP Samples
Incident # NAPP2327753740
Black River – John D Forehand RD Crossing

Sample ID		C-3	C-4	SW-2
Sample Date		10/12/2023	10/12/2023	10/12/2023
Depth (BGS)		2.5'	2'	-
TCLP Metals by ICP (1311)	Arsenic mg/L	ND	ND	ND
	Barium mg/L	ND	ND	ND
	Cadmium mg/L	ND	ND	ND
	Chromium mg/L	ND	ND	ND
	Lead mg/L	ND	ND	ND
	Selenium mg/L	ND	ND	ND
	Silver mg/L	ND	ND	ND
TCLP Mercury by CVAFS	Mercury ng/L	ND	ND	ND

NOTES:

BGS Below ground surface
mg/kg Milligrams per kilogram
mg/L Milligrams per liter
ng/L Nanograms per liter
C Confirmation sample
SW Sidewall sample
ND Analyte not detected

Table 5
Cimarex Energy Co.
Black River - John D Forehand Rd Crossing (10.03.2023)
Eddy County, New Mexico

Sample ID	Date	Depth (in-ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
Backfill Material	1/20/2025	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
<i>Regulatory Criteria^A</i>			100 mg/kg				10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet



Appendix III

Site Characterization



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 Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column	
POD Number	Code															
C 03490 POD1		CUB	ED	3	4	3	08	24S	27E	573812	3565709		918	140	23	117
C 00516 POD10		CUB	ED	3	4	3	08	24S	27E	573875	3565722		969	160	45	115
C 00683		C	ED		4	3	08	24S	27E	573986	3565796*		1099	50	17	33
C 01187		C	ED		4	3	08	24S	27E	573986	3565796*		1099	108	17	91
C 00516 POD6		CUB	ED	1	4	3	08	24S	27E	573885	3565895*		1110	78	17	61
C 01169		C	ED	1	4	3	18	24S	27E	572282	3564261*		1200	55	35	20
C 00631		C	ED	3	3	4	08	24S	27E	574288	3565701*		1271	50	24	26
C 03489 POD1		CUB	ED	2	4	3	08	24S	27E	574153	3565939		1318	200		
C 00516		CUB	ED	1	3	4	08	24S	27E	574288	3565901*		1391	105	36	69
C 00516 CLW201016	O	CUB	ED	1	3	4	08	24S	27E	574288	3565901*		1391	62		
C 00516 CLW308590	O	CUB	ED	1	3	4	08	24S	27E	574288	3565901*		1391	105	36	69
C 00516 S		CUB	ED	1	3	4	08	24S	27E	574288	3565901		1391	50	17	33
C 00929		C	ED		3	3	18	24S	27E	572013	3564159*		1477	54	33	21
C 03560 POD1		C	ED	2	3	3	18	24S	27E	572009	3564150		1485	68	28	40
C 03092		C	ED	4	3	1	08	24S	27E	573678	3566501*		1566	54	37	17
C 04360 POD1		C	ED	3	3	3	18	24S	27E	571910	3564085		1604	72	40	32
C 01366		CUB	ED			4	08	24S	27E	574590	3566003*		1691	60	35	25
C 03777 POD1		C	ED	3	1	2	24	24S	26E	571120	3563571		2545	55	28	27
C 03192		C	ED	1	2	1	13	24S	26E	570697	3565474*		2573	200		
C 00850		C	ED		2	3	09	24S	27E	575595	3566223*		2664	108	35	73
C 02043		C	ED		2	1	24	24S	26E	570805	3563758*		2722	42	28	14

Average Depth to Water: **29 feet**

Minimum Depth: **17 feet**

Maximum Depth: **45 feet**

Record Count: 21

UTM NAD83 Radius Search (in meters):

Easting (X): 573227

Northing (Y): 3565001

Radius: 3000

*UTM location was derived from PLSS - see Help

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

1/2/24 10:06 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

National Flood Hazard Layer FIRMMette



104°13'41"W 32°13'25"N



Released to Imaging: 2/24/2025 10:30:18 AM

1:6,000

104°13'4"W 32°12'55"N

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

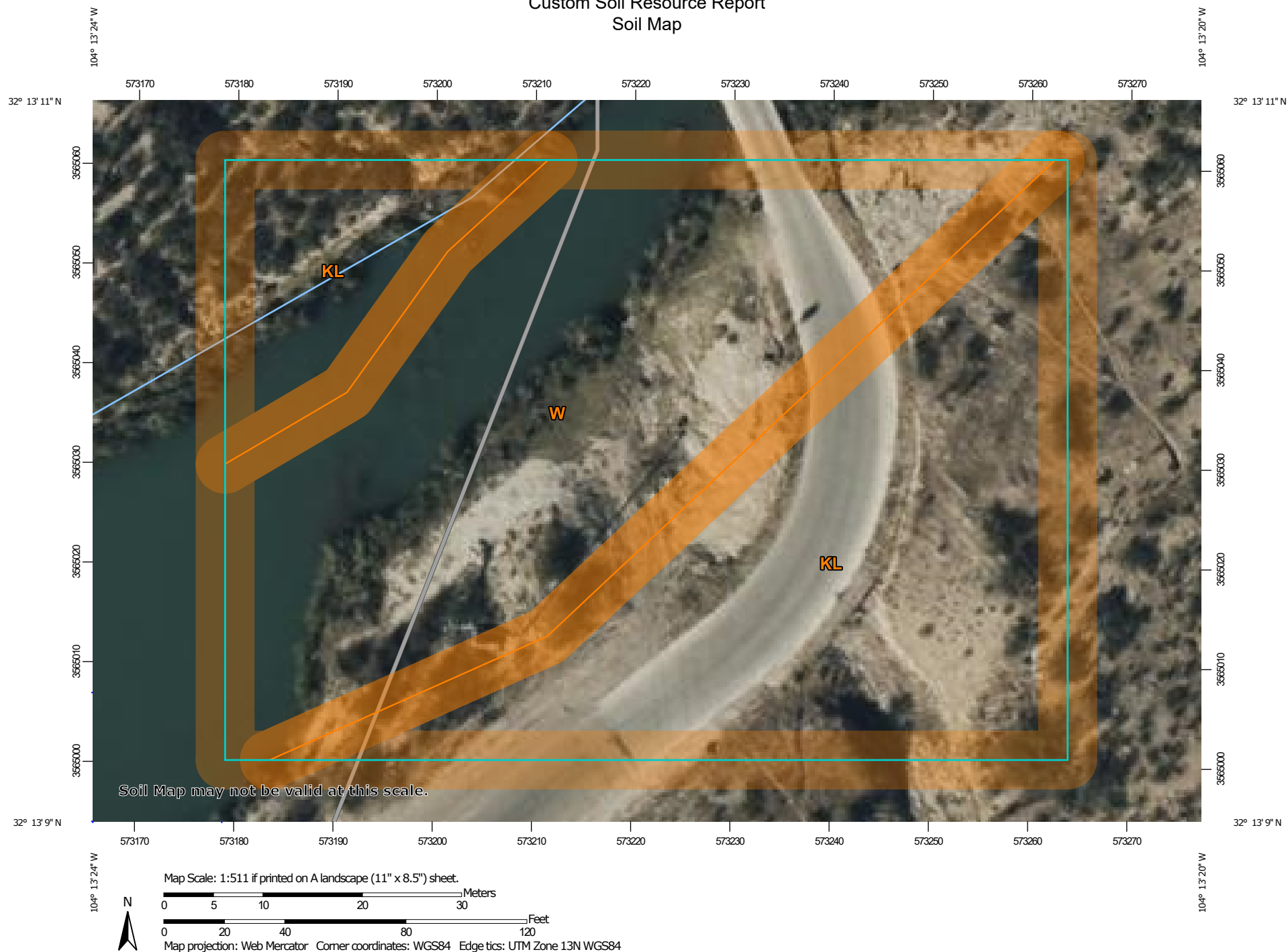


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/5/2023 at 8:57 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.


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

Custom Soil Resource Report
Soil Map

Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)


Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot


 Closed Depression

 Gravel Pit


 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water


 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole

 Slide or Slip


 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals

Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

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

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

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

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

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

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

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

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

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

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

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

Custom Soil Resource Report

Eddy Area, New Mexico**KL—Karro loam, 0 to 3 percent slopes****Map Unit Setting***National map unit symbol:* 1w4p*Elevation:* 2,500 to 5,300 feet*Mean annual precipitation:* 10 to 15 inches*Mean annual air temperature:* 57 to 64 degrees F*Frost-free period:* 200 to 230 days*Farmland classification:* Farmland of statewide importance**Map Unit Composition***Karro and similar soils:* 99 percent*Minor components:* 1 percent*Estimates are based on observations, descriptions, and transects of the mapunit.***Description of Karro****Setting***Landform:* Plains, alluvial fans*Landform position (three-dimensional):* Riser, talf, rise*Down-slope shape:* Convex, linear*Across-slope shape:* Linear*Parent material:* Mixed alluvium**Typical profile***H1 - 0 to 10 inches:* loam*H2 - 10 to 90 inches:* 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:* 60 percent*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)*Sodium adsorption ratio, maximum:* 1.0*Available water supply, 0 to 60 inches:* High (about 10.5 inches)**Interpretive groups***Land capability classification (irrigated):* 2s*Land capability classification (nonirrigated):* 6s*Hydrologic Soil Group:* C*Ecological site:* R070BC030NM - Limy*Hydric soil rating:* No**Minor Components****Reeves***Percent of map unit:* 1 percent

Custom Soil Resource Report

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

W—Water

Map Unit Composition

Water: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.



Appendix IV

Photographic Documentation



Black River – John D Forehand RD Crossing
Eddy County, NM



Photograph No.1
Description:

Overturned tanker truck hauling produced water.
Origin of release.



Photograph No.2
Description:

Produced water impact down gradient towards the Black River.



Black River – John D Forehand RD Crossing
Eddy County, NM



Coterra
River
10.03.2023 06:24 PM
32.2193, -104.22279
1436 Old Cavern Hwy, Carlsbad, NM 88220, USA

Photograph No.3
Description:

John D Forehand RD and southern gabion retaining wall
impacted by release.



Coterra
River
10.03.2023 06:25 PM
32.21965, -104.22296
1436 Old Cavern Hwy, Carlsbad, NM 88220, USA

Photograph No.4
Description:

Release's point of entry into Black River.



Photograph No.5
Description:

Impacted gabion retaining wall and bedrock north of road.



Photograph No.6
Description:

Excavated area leading towards the Black River.

**Photograph No.7**
Description:

Excavated area south of road.

**Photograph No.8**
Description:

Lined catch basin with contaminated hydrovac runoff.

**Photograph No.9**
Description:

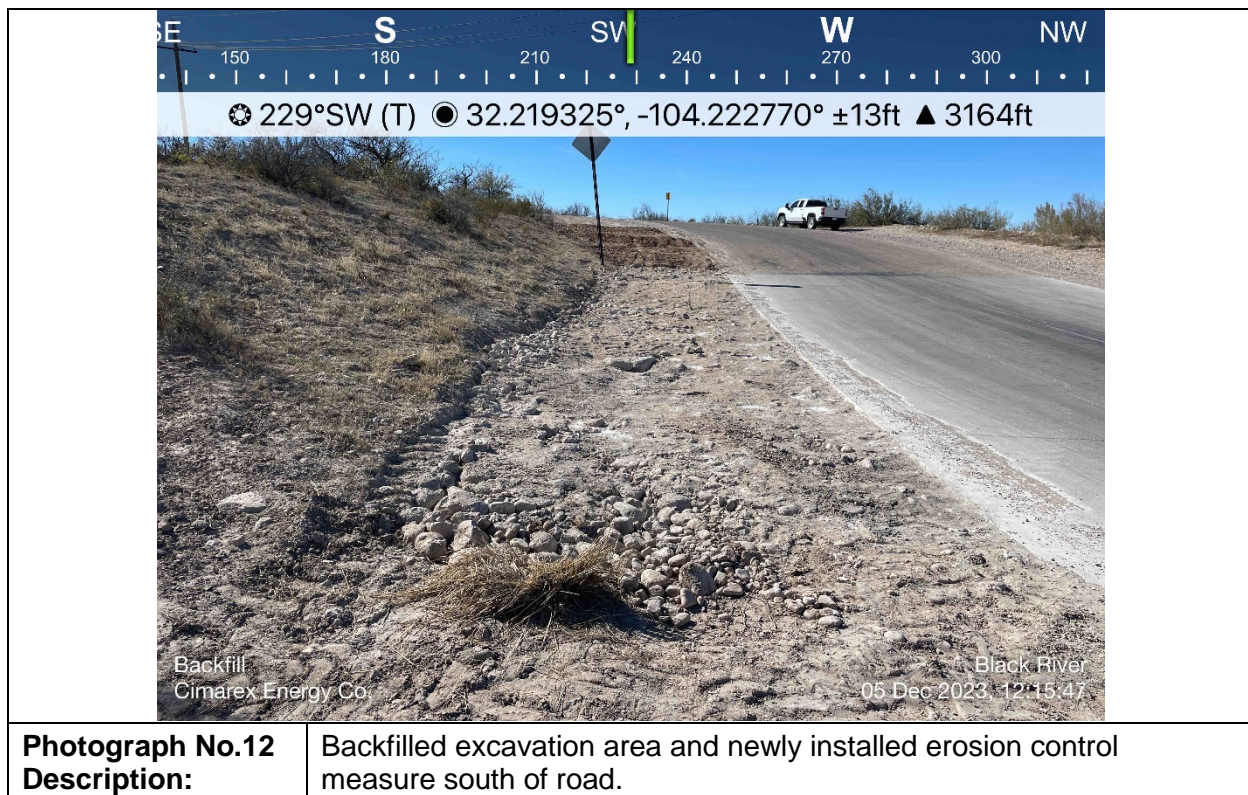
Aerial of site backfill.

**Photograph No.10**
Description:

Backfilled excavation area.



Black River – John D Forehand RD Crossing
Eddy County, NM





Appendix V

C-141 Forms, NMOCD Correspondence

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2327753740
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2327753740
Contact mailing address: 6001 Deauville Blvd., Suite 300N Midland, TX 79706	

Location of Release Source

Latitude 32.219252 _____ Longitude -104.222885 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Black River – John D Forehand Rd Crossing	Site Type: County Road / River Crossing
Date Release Discovered: 10/3/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
H	18	24S	27E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 65	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Vehicle Accident - Transport

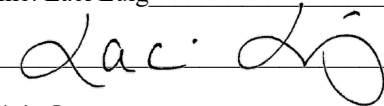
At 3:15pm, a third-party trucking company hauling 125 barrels produced water from the Riverboat 12-1 WOPA & WOMD Fed Com 1 battery overturned at the Black River and John D. Forehand Road river crossing. Approximately 65 barrels of produced water released from the transport trailer to the environment, of which an unknown quantity entered the Black River. The remaining 60 barrels of produced water was recovered from the overturned trailer. The surrounding private surface owners State and Federal agencies were contacted and have been in communication with Coterra Energy (Cimarex). Coterra Energy's EHS Department will continue to manage the incident and will work with the appropriate agencies, adjacent landowner, and our conservation partner, CEHMM, to ensure that the area is properly remediated.

Incident ID	nAPP2327753740
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Total amount of release greater than 25 barrels
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Phillip Levasseur To: OCD Enviro, BLM, SLO, NRC By: Email	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Laci Luig	Title: ESH Specialist
Signature: 	Date: 10/4/2023
email: laci.luig@coterra.com	Telephone: (432) 208-3035
<u>OCD Only</u>	
Received by: Shelly Wells	Date: 10/10/2023



CIMAREX ENERGY
BLACK RIVER – JDF ROAD
CROSSING
EDDY, NM

NAPP2327753740



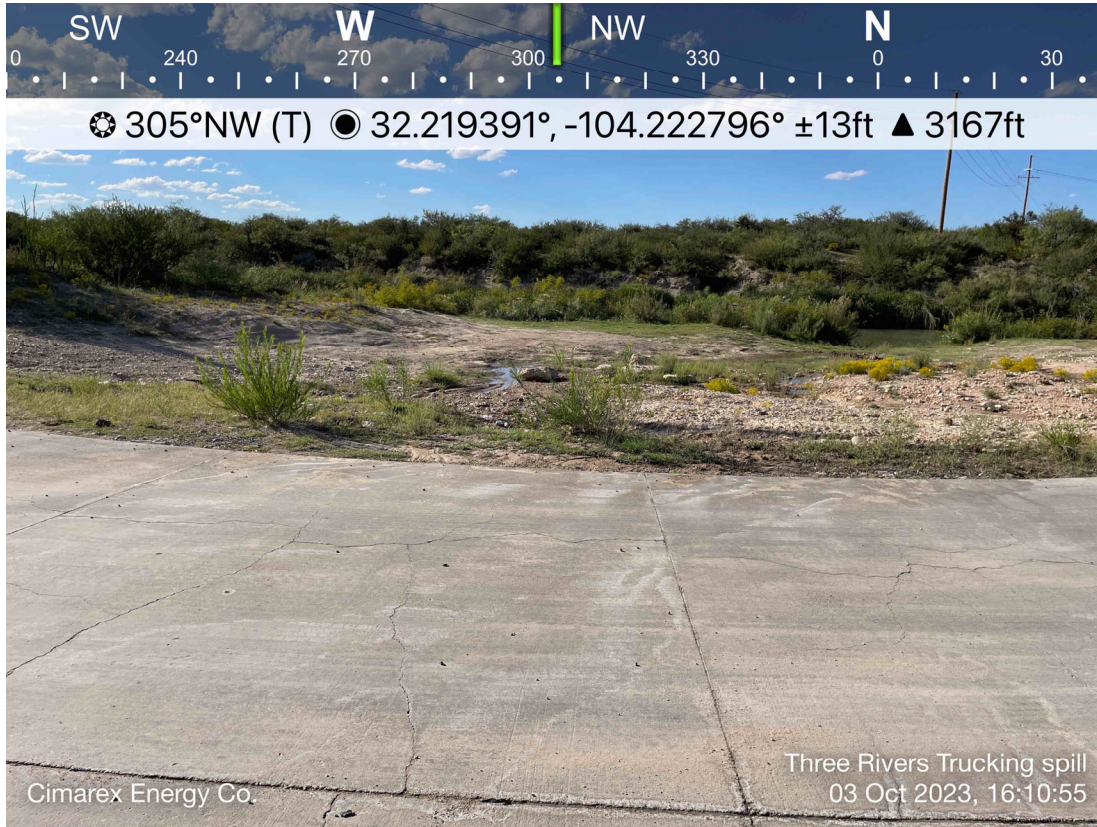


CIMAREX ENERGY
BLACK RIVER – JDF ROAD
CROSSING
EDDY, NM



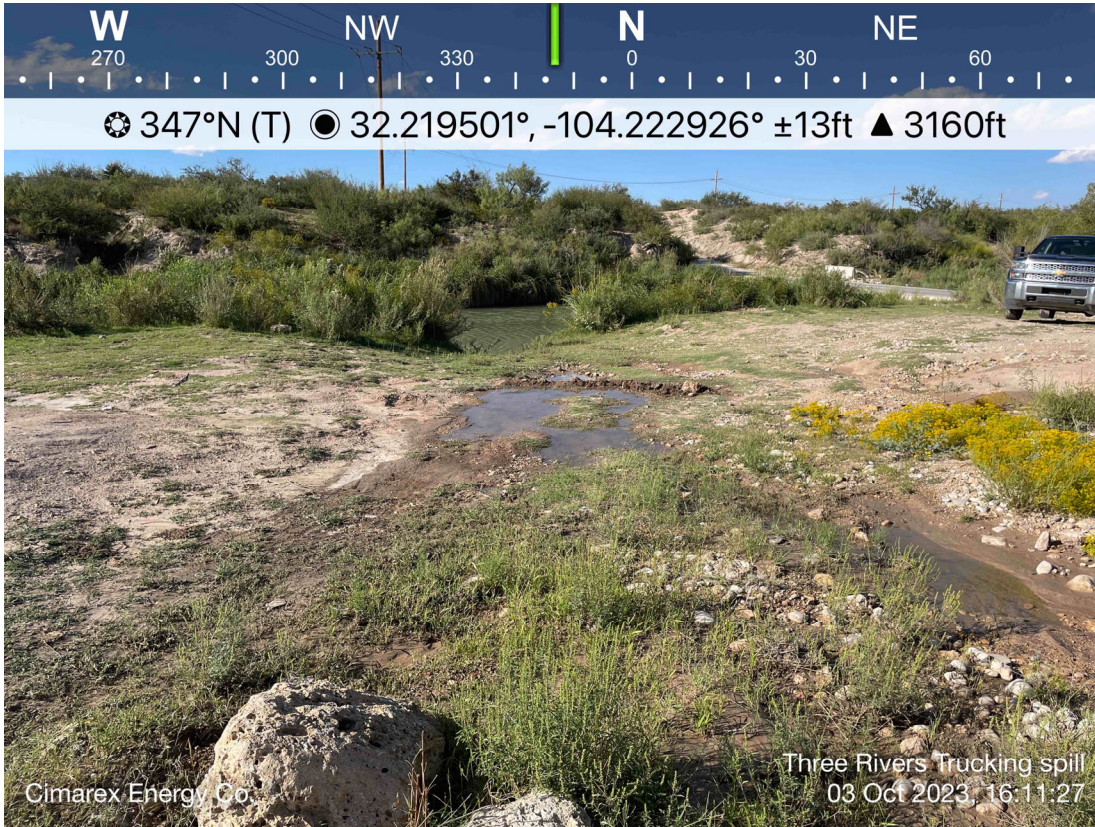


CIMAREX ENERGY
BLACK RIVER – JDF ROAD
CROSSING
EDDY, NM



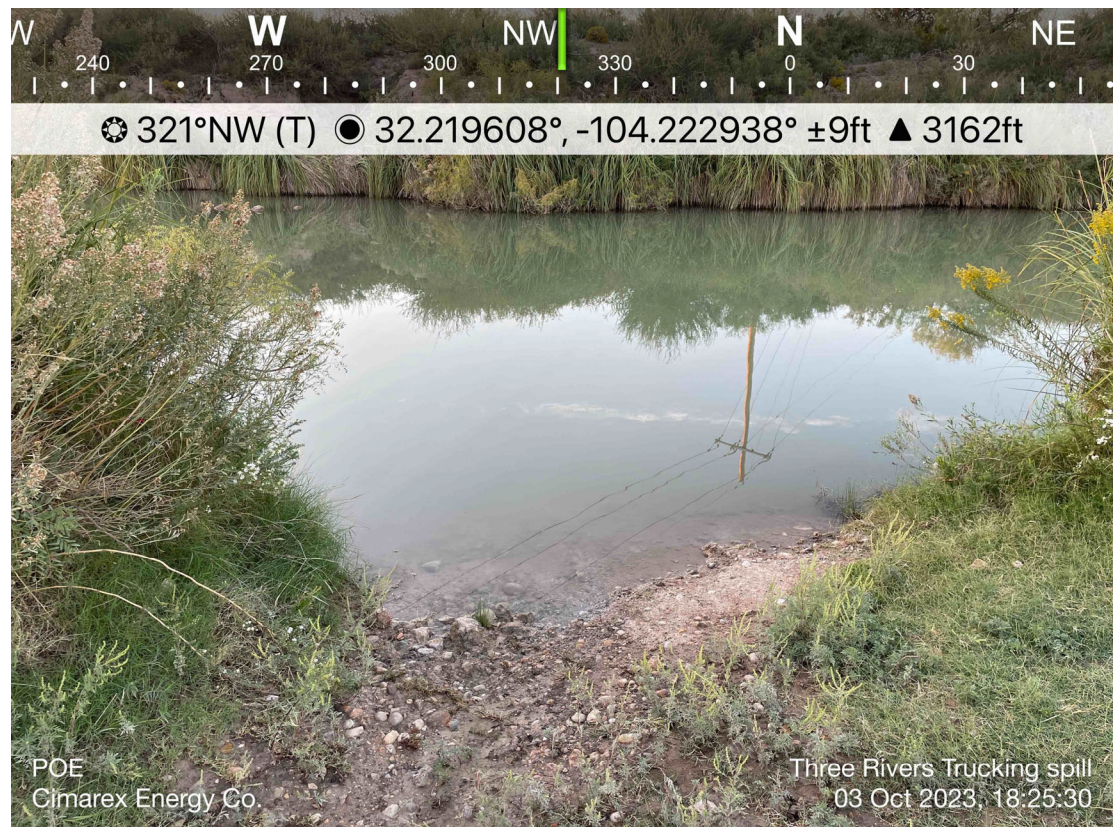


CIMAREX ENERGY
BLACK RIVER – JDF ROAD
CROSSING
EDDY, NM





CIMAREX ENERGY
BLACK RIVER – JDF ROAD
CROSSING
EDDY, NM



Matthew Gomez

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, October 10, 2023 10:11 AM
To: Laci Luig; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Cc: Shelly Bowen; Phillip Levasseur; Matt Ramey - CEHMM; Chad Hensley; Matthew Gomez
Subject: RE: [EXTERNAL] nAPP2327753740 Black River - John D Forehand Rd crossing sampling event

This message originated from an **External Source**. Please use proper judgment and caution when opening attachments, clicking links, or responding to this email.

Good morning Laci,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Laci Luig <Laci.Luig@coterra.com>
Sent: Monday, October 9, 2023 1:20 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Shelly Bowen <Shelly.Bowen@coterra.com>; Phillip Levasseur <Phillip.Levasseur@coterra.com>; Matt Ramey - CEHMM <matthew.ramey@cehmm.org>; Chad Hensley - Talon <chensley@talonlpe.com>; mgomez@talonlpe.com
Subject: [EXTERNAL] nAPP2327753740 Black River - John D Forehand Rd crossing sampling event

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

This email serves as notification for confirmation sampling at the Black River – John D Forehand Rd river crossing. Sampling is scheduled to begin as early as Thursday, October 12th, weather and soil conditions permitting. Talon, LPE will be onsite to collect the confirmation samples.

Thank you,



Laci Luig | Environmental, Health & Safety Specialist

T: 432.571.7810 | M: 432.208.3035 | laci.luig@coterra.com | www.coterra.com

Coterra Energy Inc. | 6001 Deauville Blvd., Suite 300N | Midland, TX 79706

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

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Appendix VI

Laboratory Reports

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

October 12, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BLACK RIVER SPILL

Enclosed are the results of analyses for samples received by the laboratory on 10/04/23 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:27

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S - 1	H235410-01	Water	03-Oct-23 06:25	04-Oct-23 15:55
S - 2	H235410-02	Water	03-Oct-23 06:20	04-Oct-23 15:55
S - 3	H235410-03	Water	03-Oct-23 06:30	04-Oct-23 15:55
S - 4	H235410-04	Water	04-Oct-23 14:00	04-Oct-23 15:55
S - 5	H235410-05	Water	03-Oct-23 06:45	04-Oct-23 15:55
S - 6	H235410-06	Water	04-Oct-23 12:35	04-Oct-23 15:55
S - 7	H235410-07	Water	04-Oct-23 04:40	04-Oct-23 15:55
TANKER	H235410-08	Water	03-Oct-23 04:50	04-Oct-23 15:55
WATER TANK	H235410-09	Water	03-Oct-23 07:15	04-Oct-23 15:55

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or 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 damage 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:27

S - 1**H235410-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	190		5.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Chloride*	20.0		4.00	mg/L	1	3100408	AC	05-Oct-23	4500-Cl-B	
Conductivity*	1590		1.00	umhos/cm @ 25°C	1	3100528	AC	05-Oct-23	120.1	
pH*	7.92		0.100	pH Units	1	3100528	AC	05-Oct-23	150.1	
Temperature °C	18.8			pH Units	1	3100528	AC	05-Oct-23	150.1	
Sulfate*	963		125	mg/L	12.5	3100527	AC	05-Oct-23	375.4	
TDS*	1440		5.00	mg/L	1	3100921	AC	12-Oct-23	160.1	
Alkalinity, Total*	156		4.00	mg/L	1	3091815	AC	05-Oct-23	310.1	

Green Analytical Laboratories**General Chemistry**

Fluoride*	0.340		0.200	mg/L	2	B232981	AWG	09-Oct-23	EPA300.0	
-----------	-------	--	-------	------	---	---------	-----	-----------	----------	--

Total Recoverable Metals by ICP (E200.7)

Calcium*	299		0.400	mg/L	2	B233005	AES	10-Oct-23	EPA200.7	
Magnesium*	45.2		0.200	mg/L	2	B233005	AES	10-Oct-23	EPA200.7	
Potassium*	<2.00		2.00	mg/L	2	B233005	AES	10-Oct-23	EPA200.7	
Sodium*	15.3		2.00	mg/L	2	B233005	AES	10-Oct-23	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or 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 damage 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:27

S - 2**H235410-02 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	200		5.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Chloride*	24.0		4.00	mg/L	1	3100408	AC	05-Oct-23	4500-Cl-B	
Conductivity*	1610		1.00	umhos/cm @ 25°C	1	3100528	AC	05-Oct-23	120.1	
pH*	7.86		0.100	pH Units	1	3100528	AC	05-Oct-23	150.1	
Temperature °C	18.8			pH Units	1	3100528	AC	05-Oct-23	150.1	
Sulfate*	954		250	mg/L	25	3100527	AC	05-Oct-23	375.4	
TDS*	1430		5.00	mg/L	1	3100921	AC	12-Oct-23	160.1	
Alkalinity, Total*	164		4.00	mg/L	1	3091815	AC	05-Oct-23	310.1	

Green Analytical Laboratories**General Chemistry**

Fluoride*	0.360		0.200	mg/L	2	B232981	AWG	09-Oct-23	EPA300.0	
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Total Recoverable Metals by ICP (E200.7)

Calcium*	302		0.400	mg/L	2	B233005	AES	10-Oct-23	EPA200.7	
Magnesium*	45.5		0.200	mg/L	2	B233005	AES	10-Oct-23	EPA200.7	
Potassium*	2.12		2.00	mg/L	2	B233005	AES	10-Oct-23	EPA200.7	
Sodium*	19.5		2.00	mg/L	2	B233005	AES	10-Oct-23	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:27

S - 3**H235410-03 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	210		5.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Chloride*	28.0		4.00	mg/L	1	3100408	AC	05-Oct-23	4500-Cl-B	
Conductivity*	1630		1.00	umhos/cm @ 25°C	1	3100528	AC	05-Oct-23	120.1	
pH*	7.89		0.100	pH Units	1	3100528	AC	05-Oct-23	150.1	
Temperature °C	17.0			pH Units	1	3100528	AC	05-Oct-23	150.1	
Sulfate*	834		250	mg/L	25	3100527	AC	05-Oct-23	375.4	
TDS*	1450		5.00	mg/L	1	3100921	AC	12-Oct-23	160.1	
Alkalinity, Total*	172		4.00	mg/L	1	3091815	AC	05-Oct-23	310.1	

Green Analytical Laboratories**General Chemistry**

Fluoride*	0.328		0.200	mg/L	2	B232981	AWG	09-Oct-23	EPA300.0	
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Total Recoverable Metals by ICP (E200.7)

Calcium*	302		2.00	mg/L	10	B233005	AES	11-Oct-23	EPA200.7	
Magnesium*	47.9		1.00	mg/L	10	B233005	AES	11-Oct-23	EPA200.7	
Potassium*	<2.00		2.00	mg/L	2	B233005	AES	10-Oct-23	EPA200.7	
Sodium*	21.0		2.00	mg/L	2	B233005	AES	10-Oct-23	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:27

S - 4**H235410-04 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	181		5.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Chloride*	16.0		4.00	mg/L	1	3100408	AC	05-Oct-23	4500-Cl-B	
Conductivity*	1600		1.00	umhos/cm @ 25°C	1	3100528	AC	05-Oct-23	120.1	
pH*	7.76		0.100	pH Units	1	3100528	AC	05-Oct-23	150.1	
Temperature °C	17.5			pH Units	1	3100528	AC	05-Oct-23	150.1	
Sulfate*	788		250	mg/L	25	3100527	AC	05-Oct-23	375.4	
TDS*	1340		5.00	mg/L	1	3100921	AC	12-Oct-23	160.1	
Alkalinity, Total*	148		4.00	mg/L	1	3091815	AC	05-Oct-23	310.1	

Green Analytical Laboratories**General Chemistry**

Fluoride*	0.346		0.200	mg/L	2	B232981	AWG	09-Oct-23	EPA300.0	
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Total Recoverable Metals by ICP (E200.7)

Calcium*	300		2.00	mg/L	10	B233005	AES	11-Oct-23	EPA200.7	
Magnesium*	48.6		1.00	mg/L	10	B233005	AES	11-Oct-23	EPA200.7	
Potassium*	<2.00		2.00	mg/L	2	B233005	AES	10-Oct-23	EPA200.7	
Sodium*	15.7		2.00	mg/L	2	B233005	AES	10-Oct-23	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:27

S - 5**H235410-05 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	156		5.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Chloride*	410		4.00	mg/L	1	3100515	AC	05-Oct-23	4500-Cl-B	
Conductivity*	2820		1.00	umhos/cm @ 25°C	1	3100528	AC	05-Oct-23	120.1	
pH*	7.70		0.100	pH Units	1	3100528	AC	05-Oct-23	150.1	
Temperature °C	19.9			pH Units	1	3100528	AC	05-Oct-23	150.1	
Sulfate*	888		250	mg/L	25	3100527	AC	05-Oct-23	375.4	
TDS*	2080		5.00	mg/L	1	3100921	AC	12-Oct-23	160.1	
Alkalinity, Total*	128		4.00	mg/L	1	3091815	AC	05-Oct-23	310.1	

Green Analytical Laboratories**General Chemistry**

Fluoride*	0.505		0.500	mg/L	5	B232981	AWG	09-Oct-23	EPA300.0	
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Total Recoverable Metals by ICP (E200.7)

Calcium*	300		2.00	mg/L	10	B233005	AES	11-Oct-23	EPA200.7	
Magnesium*	69.2		1.00	mg/L	10	B233005	AES	11-Oct-23	EPA200.7	
Potassium*	<5.00		5.00	mg/L	5	B233005	AES	10-Oct-23	EPA200.7	
Sodium*	236		5.00	mg/L	5	B233005	AES	10-Oct-23	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:27

S - 6**H235410-06 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	220		5.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Chloride*	1320		4.00	mg/L	1	3100515	AC	05-Oct-23	4500-Cl-B	
Conductivity*	6300		1.00	umhos/cm @ 25°C	1	3100528	AC	05-Oct-23	120.1	
pH*	8.05		0.100	pH Units	1	3100528	AC	05-Oct-23	150.1	
Temperature °C	19.2			pH Units	1	3100528	AC	05-Oct-23	150.1	
Sulfate*	1560		250	mg/L	25	3100527	AC	05-Oct-23	375.4	
TDS*	4470		5.00	mg/L	1	3100921	AC	12-Oct-23	160.1	
Alkalinity, Total*	180		4.00	mg/L	1	3091815	AC	05-Oct-23	310.1	

Green Analytical Laboratories**General Chemistry**

Fluoride*	<1.00		1.00	mg/L	10	B232981	AWG	09-Oct-23	EPA300.0	
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Total Recoverable Metals by ICP (E200.7)

Calcium*	458		2.00	mg/L	10	B233005	AES	11-Oct-23	EPA200.7	
Magnesium*	199		1.00	mg/L	10	B233005	AES	11-Oct-23	EPA200.7	
Potassium*	<10.0		10.0	mg/L	10	B233005	AES	10-Oct-23	EPA200.7	
Sodium*	692		10.0	mg/L	10	B233005	AES	10-Oct-23	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:27

S - 7**H235410-07 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	205		5.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Chloride*	1280		4.00	mg/L	1	3100515	AC	05-Oct-23	4500-Cl-B	
Conductivity*	5810		1.00	umhos/cm @ 25°C	1	3100528	AC	05-Oct-23	120.1	
pH*	8.11		0.100	pH Units	1	3100528	AC	05-Oct-23	150.1	
Temperature °C	18.8			pH Units	1	3100528	AC	05-Oct-23	150.1	
Sulfate*	1520		250	mg/L	25	3100527	AC	05-Oct-23	375.4	
TDS*	4220		5.00	mg/L	1	3100921	AC	12-Oct-23	160.1	
Alkalinity, Total*	168		4.00	mg/L	1	3091815	AC	05-Oct-23	310.1	

Green Analytical Laboratories**General Chemistry**

Fluoride*	<1.00		1.00	mg/L	10	B232981	AWG	09-Oct-23	EPA300.0	
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Total Recoverable Metals by ICP (E200.7)

Calcium*	441		2.00	mg/L	10	B233005	AES	11-Oct-23	EPA200.7	
Magnesium*	186		1.00	mg/L	10	B233005	AES	11-Oct-23	EPA200.7	
Potassium*	<10.0		10.0	mg/L	10	B233005	AES	10-Oct-23	EPA200.7	
Sodium*	651		10.0	mg/L	10	B233005	AES	10-Oct-23	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:27

TANKER
H235410-08 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	210		5.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Chloride*	83000		4.00	mg/L	1	3100515	AC	05-Oct-23	4500-Cl-B	
Conductivity*	156000		1.00	umhos/cm @ 25°C	1	3100528	AC	05-Oct-23	120.1	
pH*	6.24		0.100	pH Units	1	3100528	AC	05-Oct-23	150.1	
Temperature °C	18.8			pH Units	1	3100528	AC	05-Oct-23	150.1	
Sulfate*	251		62.5	mg/L	6.25	3100527	AC	05-Oct-23	375.4	
TDS*	118000		5.00	mg/L	1	3100921	AC	12-Oct-23	160.1	
Alkalinity, Total*	172		4.00	mg/L	1	3091815	AC	05-Oct-23	310.1	

Green Analytical Laboratories**General Chemistry**

Fluoride*	<25.0		25.0	mg/L	250	B232981	AWG	10-Oct-23	EPA300.0	
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Total Recoverable Metals by ICP (E200.7)

Calcium*	4980		40.0	mg/L	200	B233005	AES	11-Oct-23	EPA200.7	
Magnesium*	836		20.0	mg/L	200	B233005	AES	11-Oct-23	EPA200.7	
Potassium*	690		200	mg/L	200	B233005	AES	10-Oct-23	EPA200.7	
Sodium*	38200		200	mg/L	200	B233005	AES	10-Oct-23	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:27

WATER TANK
H235410-09 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	220		5.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3091815	AC	05-Oct-23	310.1	
Chloride*	74000		4.00	mg/L	1	3100515	AC	05-Oct-23	4500-Cl-B	
Conductivity*	157000		1.00	umhos/cm @ 25°C	1	3100528	AC	05-Oct-23	120.1	
pH*	6.39		0.100	pH Units	1	3100528	AC	05-Oct-23	150.1	
Temperature °C	18.7			pH Units	1	3100528	AC	05-Oct-23	150.1	
Sulfate*	296		62.5	mg/L	6.25	3100527	AC	05-Oct-23	375.4	
TDS*	121000		5.00	mg/L	1	3100921	AC	12-Oct-23	160.1	
Alkalinity, Total*	180		4.00	mg/L	1	3091815	AC	05-Oct-23	310.1	

Green Analytical Laboratories**General Chemistry**

Fluoride*	<25.0		25.0	mg/L	250	B232981	AWG	10-Oct-23	EPA300.0	
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Total Recoverable Metals by ICP (E200.7)

Calcium*	5240		40.0	mg/L	200	B233005	AES	11-Oct-23	EPA200.7	
Magnesium*	884		20.0	mg/L	200	B233005	AES	11-Oct-23	EPA200.7	
Potassium*	684		200	mg/L	200	B233005	AES	10-Oct-23	EPA200.7	
Sodium*	39100		200	mg/L	200	B233005	AES	10-Oct-23	EPA200.7	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:27

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3091815 - General Prep - Wet Chem**Blank (3091815-BLK1)**

Prepared: 18-Sep-23 Analyzed: 19-Sep-23

Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

LCS (3091815-BS1)

Prepared: 18-Sep-23 Analyzed: 19-Sep-23

Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

LCS Dup (3091815-BSD1)

Prepared: 18-Sep-23 Analyzed: 19-Sep-23

Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

Batch 3100408 - General Prep - Wet Chem**Blank (3100408-BLK1)**

Prepared: 04-Oct-23 Analyzed: 05-Oct-23

Chloride	ND	4.00	mg/L							
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LCS (3100408-BS1)

Prepared: 04-Oct-23 Analyzed: 05-Oct-23

Chloride	104	4.00	mg/L	100		104	80-120			
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LCS Dup (3100408-BSD1)

Prepared: 04-Oct-23 Analyzed: 05-Oct-23

Chloride	104	4.00	mg/L	100		104	80-120	0.00	20	
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Batch 3100515 - General Prep - Wet Chem**Blank (3100515-BLK1)**

Prepared & Analyzed: 05-Oct-23

Chloride	ND	4.00	mg/L							
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:27

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3100515 - General Prep - Wet Chem**LCS (3100515-BS1)**

Prepared & Analyzed: 05-Oct-23

Chloride	108	4.00	mg/L	100		108	80-120			
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LCS Dup (3100515-BSD1)

Prepared & Analyzed: 05-Oct-23

Chloride	108	4.00	mg/L	100		108	80-120	0.00	20	
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Batch 3100527 - General Prep - Wet Chem**Blank (3100527-BLK1)**

Prepared & Analyzed: 05-Oct-23

Sulfate	ND	10.0	mg/L							
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LCS (3100527-BS1)

Prepared & Analyzed: 05-Oct-23

Sulfate	18.0	10.0	mg/L	20.0		90.0	80-120			
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LCS Dup (3100527-BSD1)

Prepared & Analyzed: 05-Oct-23

Sulfate	18.7	10.0	mg/L	20.0		93.4	80-120	3.71	20	
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Batch 3100528 - General Prep - Wet Chem**LCS (3100528-BS1)**

Prepared & Analyzed: 05-Oct-23

Conductivity	101000		uS/cm	100000		101	80-120			
pH	7.09		pH Units	7.00		101	90-110			

Duplicate (3100528-DUP1)

Source: H235410-01

Prepared & Analyzed: 05-Oct-23

pH	7.97	0.100	pH Units	7.92				0.629	20	
Conductivity	1610	1.00	umhos/cm @ 25°C	1590				1.00	20	
Temperature °C	18.8		pH Units	18.8				0.00	200	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:27

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3100921 - Filtration**Blank (3100921-BLK1)**

Prepared: 09-Oct-23 Analyzed: 11-Oct-23

TDS	ND	5.00	mg/L							
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LCS (3100921-BS1)

Prepared: 09-Oct-23 Analyzed: 11-Oct-23

TDS	498		mg/L	500		99.6	80-120			
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Duplicate (3100921-DUP1)

Source: H235382-02

Prepared: 09-Oct-23 Analyzed: 12-Oct-23

TDS	911	5.00	mg/L		904			0.771	20	
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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:27

General Chemistry - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B232981 - IC- Ion Chromatograph**Blank (B232981-BLK1)**

Prepared & Analyzed: 09-Oct-23

Fluoride	ND	0.100	mg/L							
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LCS (B232981-BS1)

Prepared & Analyzed: 09-Oct-23

Fluoride	2.51	0.100	mg/L	2.50		100	90-110			
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LCS Dup (B232981-BSD1)

Prepared & Analyzed: 09-Oct-23

Fluoride	2.50	0.100	mg/L	2.50		100	90-110	0.200	20	
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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:27

Total Recoverable Metals by ICP (E200.7) - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B233005 - Total Recoverable by ICP**Blank (B233005-BLK1)**

Prepared: 09-Oct-23 Analyzed: 10-Oct-23

Potassium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Calcium	ND	0.200	mg/L							

LCS (B233005-BS1)

Prepared: 09-Oct-23 Analyzed: 10-Oct-23

Sodium	1.68	1.00	mg/L	1.62		103	85-115			
Potassium	4.00	1.00	mg/L	4.00		99.9	85-115			
Magnesium	10.1	0.100	mg/L	10.0		101	85-115			
Calcium	1.97	0.200	mg/L	2.00		98.3	85-115			

LCS Dup (B233005-BSD1)

Prepared: 09-Oct-23 Analyzed: 10-Oct-23

Potassium	3.99	1.00	mg/L	4.00		99.7	85-115	0.184	20	
Magnesium	10.1	0.100	mg/L	10.0		101	85-115	0.146	20	
Sodium	1.63	1.00	mg/L	1.62		101	85-115	2.59	20	
Calcium	1.96	0.200	mg/L	2.00		98.1	85-115	0.150	20	

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Talen LPE		P.O. #: 101612		BILL TO		ANALYSIS REQUEST	
Project Manager: C. Hensley		Company: Cimarron					
Address: 408 W. Texas Ave		Attn: Laci Luis					
City: Artesia		Address:					
State: NM Zip: 88210		City:					
Phone #: 575-748-7767 Fax #:		State:					
Project #: 700961.002.01 Project Owner:		Zip:					
Project Name: Black Run Spill		Phone #:					
Project Location: Eddy		Fax #:					
Sampler Name: M. Gomez, R. Pacheco							

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	Cations	Anions	TDS	Chlorides	Fluorides	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER: River										ACID/BASE:
H235410																			
1	S-1		1																
2	S-2		1																
3	S-3		1																
4	S-4		1																
5	S-5		1																
6	S-6		1																
7	S-7		1																
8	Tanker		1																
9	Water Tank		1																

Relinquished By: R. Hensley	Date: 10-4-23	Received By: Quiana	Date: 10-4-23
Relinquished By: R. Hensley	Date: 10-4-23	Received By: Quiana	Date: 10-4-23

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	AP		Rush <input checked="" type="checkbox"/>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Observed Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

REMARKS: **p9 1 of 1 24 hour rush. 3-5 business days. 10/5/23 @ 1005**

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

All Results are emailed. Please provide Email address: **Quiana**

* **Natalie of Sample**



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

October 10, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BLACK RIVER SPILL

Enclosed are the results of analyses for samples received by the laboratory on 10/04/23 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/04/2023	Sampling Date:	10/04/2023
Reported:	10/10/2023	Sampling Type:	Soil
Project Name:	BLACK RIVER SPILL	Sampling Condition:	Cool & Intact
Project Number:	700261.002.01	Sample Received By:	Tamara Oldaker
Project Location:	COTERRA - EDDY CO NM		

Sample ID: S - 1 @ 0-1' (H235415-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	2.21		
Toluene*	<0.050	0.050	10/06/2023	ND	1.97	98.3	2.00	1.02		
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.04	102	2.00	0.135		
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.14	102	6.00	0.473		
Total BTEX	<0.300	0.300	10/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	10/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	193	96.4	200	6.10	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	193	96.6	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/04/2023
Reported: 10/10/2023
Project Name: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Location: COTERRA - EDDY CO NM

Sampling Date: 10/04/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 1 @ 1.5' R (H235415-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	2.21	
Toluene*	<0.050	0.050	10/06/2023	ND	1.97	98.3	2.00	1.02	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.04	102	2.00	0.135	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.14	102	6.00	0.473	
Total BTEX	<0.300	0.300	10/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	10/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	193	96.4	200	6.10	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	193	96.6	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/04/2023
Reported: 10/10/2023
Project Name: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Location: COTERRA - EDDY CO NM

Sampling Date: 10/04/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 2 @ 0-1' R (H235415-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	2.21		
Toluene*	<0.050	0.050	10/06/2023	ND	1.97	98.3	2.00	1.02		
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.04	102	2.00	0.135		
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.14	102	6.00	0.473		
Total BTEX	<0.300	0.300	10/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	193	96.4	200	6.10	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	193	96.6	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/04/2023
Reported: 10/10/2023
Project Name: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Location: COTERRA - EDDY CO NM

Sampling Date: 10/04/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 3 @ 0-.5' R (H235415-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	2.21		
Toluene*	<0.050	0.050	10/06/2023	ND	1.97	98.3	2.00	1.02		
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.04	102	2.00	0.135		
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.14	102	6.00	0.473		
Total BTEX	<0.300	0.300	10/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	10/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	193	96.4	200	6.10	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	193	96.6	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/04/2023
Reported: 10/10/2023
Project Name: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Location: COTERRA - EDDY CO NM

Sampling Date: 10/04/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 4 @ 0-1' R (H235415-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	2.21		
Toluene*	<0.050	0.050	10/06/2023	ND	1.97	98.3	2.00	1.02		
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.04	102	2.00	0.135		
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.14	102	6.00	0.473		
Total BTEX	<0.300	0.300	10/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	10/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	193	96.4	200	6.10	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	193	96.6	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/04/2023
Reported: 10/10/2023
Project Name: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Location: COTERRA - EDDY CO NM

Sampling Date: 10/04/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 5 @ 0-1' R (H235415-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	2.21		
Toluene*	<0.050	0.050	10/06/2023	ND	1.97	98.3	2.00	1.02		
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.04	102	2.00	0.135		
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.14	102	6.00	0.473		
Total BTEX	<0.300	0.300	10/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	10/06/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	193	96.4	200	6.10	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	193	96.6	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Alon LPE</u> Project Manager: <u>C. Hensley</u> Address: <u>408 W. Texas Ave</u> City: <u>Artesia</u> Phone #: <u>575-746-8768</u> Fax #: <u>NA</u> zip: <u>88210</u> Project #: <u>706261.002.01</u> Project Owner: <u>Coterra</u> Project Name: <u>Black River Spill</u> Project Location: <u>Edley</u> Sampler Name: <u>M. Gierme, R. Pacheco</u>		BILL TO P.O. #: Company: Attn: Address: City: State: zip: Phone #: Fax #:		ANALYSIS REQUEST	
FOR LAB USE ONLY Lab I.D. <u>H235415</u> Sample I.D.		MATRIX (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV ACID/BASE: ICE / COOL OTHER:	
Date: <u>10-4-23</u> Received By: <u>[Signature]</u> Date: <u>11-1-23</u> Received By: <u>[Signature]</u> Date: <u>10-4-23</u> Received By: <u>[Signature]</u>		DATE TIME <u>10-4-23 10:00</u> <u>10-4-23 10:05</u> <u>10-4-23 10:18</u> <u>10-4-23 10:25</u> <u>10-4-23 10:31</u> <u>10-4-23 10:34</u>		BTX CI TPH	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Turnaround Time: Standard Rush		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Observed Temp. °C Corrected Temp. °C	
REMARKS: <u>151 of 1</u>					

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

October 12, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BLACK RIVER SPILL

Enclosed are the results of analyses for samples received by the laboratory on 10/06/23 8:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:36

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S - 1	H235442-01	Wastewater	05-Oct-23 09:52	06-Oct-23 08:38
S - 2	H235442-02	Wastewater	05-Oct-23 09:47	06-Oct-23 08:38
S - 3	H235442-03	Wastewater	05-Oct-23 09:55	06-Oct-23 08:38
S - 4	H235442-04	Wastewater	05-Oct-23 09:02	06-Oct-23 08:38
S - 5	H235442-05	Wastewater	05-Oct-23 14:50	06-Oct-23 08:38
S - 6	H235442-06	Wastewater	05-Oct-23 14:30	06-Oct-23 08:38
S - 7	H235442-07	Wastewater	05-Oct-23 14:36	06-Oct-23 08:38
S - 8	H235442-08	Wastewater	05-Oct-23 09:20	06-Oct-23 08:38

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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:36

S - 1**H235442-01 (Wastewater)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Toluene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total BTEX	<0.006		0.006	mg/L	1	3100609	MS	07-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.7 %		77.5-125	3100609	MS	07-Oct-23	8021B	

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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:36

S - 2**H235442-02 (Wastewater)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Toluene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total BTEX	<0.006		0.006	mg/L	1	3100609	MS	07-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			94.2 %	77.5-125		3100609	MS	07-Oct-23	8021B	

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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:36

S - 3**H235442-03 (Wastewater)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Toluene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total BTEX	<0.006		0.006	mg/L	1	3100609	MS	07-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			94.6 %		77.5-125	3100609	MS	07-Oct-23	8021B	

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* = Accredited Analyte

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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:36

S - 4**H235442-04 (Wastewater)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Toluene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total BTEX	<0.006		0.006	mg/L	1	3100609	MS	07-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			93.5 %	77.5-125		3100609	MS	07-Oct-23	8021B	

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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:36

S - 5**H235442-05 (Wastewater)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Toluene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total BTEX	<0.006		0.006	mg/L	1	3100609	MS	07-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			95.8 %		77.5-125	3100609	MS	07-Oct-23	8021B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:36

S - 6**H235442-06 (Wastewater)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Toluene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total BTEX	<0.006		0.006	mg/L	1	3100609	MS	07-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			95.0 %	77.5-125		3100609	MS	07-Oct-23	8021B	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:36

S - 7

H235442-07 (Wastewater)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Toluene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total BTEX	<0.006		0.006	mg/L	1	3100609	MS	07-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			93.7 %	77.5-125		3100609	MS	07-Oct-23	8021B	

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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:36

S - 8**H235442-08 (Wastewater)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	146		5.00	mg/L	1	3091815	AC	06-Oct-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3091815	AC	06-Oct-23	310.1	
Chloride*	20.0		4.00	mg/L	1	3100515	AC	06-Oct-23	4500-Cl-B	
Conductivity*	1630		1.00	umhos/cm @ 25°C	1	3100608	AC	06-Oct-23	120.1	
pH*	7.88		0.100	pH Units	1	3100608	AC	06-Oct-23	150.1	
Temperature °C	18.7			pH Units	1	3100608	AC	06-Oct-23	150.1	
Sulfate*	796		250	mg/L	25	3101009	AC	10-Oct-23	375.4	QM-07
TDS*	1420		5.00	mg/L	1	3100921	AC	11-Oct-23	160.1	
Alkalinity, Total*	120		4.00	mg/L	1	3091815	AC	06-Oct-23	310.1	

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Toluene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total Xylenes*	<0.003		0.003	mg/L	1	3100609	MS	07-Oct-23	8021B	
Total BTEX	<0.006		0.006	mg/L	1	3100609	MS	07-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			92.3 %		77.5-125	3100609	MS	07-Oct-23	8021B	

Green Analytical Laboratories**General Chemistry**

Fluoride*	0.326		0.200	mg/L	2	B232981	AWG	09-Oct-23	EPA300.0	
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Total Recoverable Metals by ICP (E200.7)

Calcium*	291		2.00	mg/L	10	B233005	AES	11-Oct-23	EPA200.7	
Magnesium*	47.7		1.00	mg/L	10	B233005	AES	11-Oct-23	EPA200.7	
Potassium*	<2.00		2.00	mg/L	2	B233005	AES	10-Oct-23	EPA200.7	
Sodium*	17.3		2.00	mg/L	2	B233005	AES	10-Oct-23	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905Reported:
12-Oct-23 15:36**S - 8****H235442-08 (Wastewater)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:36

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3091815 - General Prep - Wet Chem**Blank (3091815-BLK1)**

Prepared: 18-Sep-23 Analyzed: 19-Sep-23

Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

LCS (3091815-BS1)

Prepared: 18-Sep-23 Analyzed: 19-Sep-23

Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

LCS Dup (3091815-BSD1)

Prepared: 18-Sep-23 Analyzed: 19-Sep-23

Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

Batch 3100515 - General Prep - Wet Chem**Blank (3100515-BLK1)**

Prepared & Analyzed: 05-Oct-23

Chloride	ND	4.00	mg/L							
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LCS (3100515-BS1)

Prepared & Analyzed: 05-Oct-23

Chloride	108	4.00	mg/L	100		108	80-120			
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LCS Dup (3100515-BSD1)

Prepared & Analyzed: 05-Oct-23

Chloride	108	4.00	mg/L	100		108	80-120	0.00	20	
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Batch 3100608 - General Prep - Wet Chem**LCS (3100608-BS1)**

Prepared & Analyzed: 06-Oct-23

Conductivity	504		uS/cm	500		101	80-120			
pH	7.03		pH Units	7.00		100	90-110			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:36

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3100608 - General Prep - Wet Chem

Duplicate (3100608-DUP1)		Source: H235442-08			Prepared & Analyzed: 06-Oct-23					
pH	7.86	0.100	pH Units		7.88			0.254	20	
Conductivity	1630	1.00	umhos/cm @ 25°C		1630			0.00	20	
Temperature °C	18.8		pH Units		18.7			0.533	200	

Batch 3100921 - Filtration

Blank (3100921-BLK1)		Prepared: 09-Oct-23 Analyzed: 11-Oct-23								
TDS	ND	5.00	mg/L							
LCS (3100921-BS1)		Prepared: 09-Oct-23 Analyzed: 11-Oct-23								
TDS	498		mg/L	500		99.6	80-120			
Duplicate (3100921-DUP1)		Source: H235382-02			Prepared: 09-Oct-23 Analyzed: 12-Oct-23					
TDS	911	5.00	mg/L		904			0.771	20	

Batch 3101009 - General Prep - Wet Chem

Blank (3101009-BLK1)		Prepared & Analyzed: 10-Oct-23								
Sulfate	ND	10.0	mg/L							
LCS (3101009-BS1)		Prepared & Analyzed: 10-Oct-23								
Sulfate	22.4	10.0	mg/L	20.0		112	80-120			
LCS Dup (3101009-BSD1)		Prepared & Analyzed: 10-Oct-23								
Sulfate	23.0	10.0	mg/L	20.0		115	80-120	2.47	20	

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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:36

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3100609 - Volatiles**Blank (3100609-BLK1)**

Prepared: 06-Oct-23 Analyzed: 07-Oct-23

Benzene	ND	0.001	mg/L							
Toluene	ND	0.001	mg/L							
Ethylbenzene	ND	0.001	mg/L							
Total Xylenes	ND	0.003	mg/L							
Total BTEX	ND	0.006	mg/L							
Surrogate: 4-Bromofluorobenzene (PID)	0.0496		mg/L	0.0500		99.2	77.5-125			

LCS (3100609-BS1)

Prepared & Analyzed: 06-Oct-23

Benzene	0.019	0.001	mg/L	0.0200		97.2	80.8-112			
Toluene	0.019	0.001	mg/L	0.0200		96.0	78.7-114			
Ethylbenzene	0.018	0.001	mg/L	0.0200		92.1	70.9-120			
m,p-Xylene	0.038	0.002	mg/L	0.0400		94.2	76.9-119			
o-Xylene	0.018	0.001	mg/L	0.0200		90.2	71.7-120			
Total Xylenes	0.056	0.003	mg/L	0.0600		92.9	75.6-119			
Surrogate: 4-Bromofluorobenzene (PID)	0.0476		mg/L	0.0500		95.2	77.5-125			

LCS Dup (3100609-BSD1)

Prepared: 06-Oct-23 Analyzed: 07-Oct-23

Benzene	0.019	0.001	mg/L	0.0200		95.8	80.8-112	1.43	8.26	
Toluene	0.019	0.001	mg/L	0.0200		94.9	78.7-114	1.15	9.03	
Ethylbenzene	0.018	0.001	mg/L	0.0200		90.6	70.9-120	1.70	11.9	
m,p-Xylene	0.037	0.002	mg/L	0.0400		93.6	76.9-119	0.738	11	
o-Xylene	0.018	0.001	mg/L	0.0200		88.0	71.7-120	2.54	15	
Total Xylenes	0.055	0.003	mg/L	0.0600		91.7	75.6-119	1.32	12.2	
Surrogate: 4-Bromofluorobenzene (PID)	0.0481		mg/L	0.0500		96.2	77.5-125			

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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:36

General Chemistry - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B232981 - IC- Ion Chromatograph**Blank (B232981-BLK1)**

Prepared & Analyzed: 09-Oct-23

Fluoride	ND	0.100	mg/L							
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LCS (B232981-BS1)

Prepared & Analyzed: 09-Oct-23

Fluoride	2.51	0.100	mg/L	2.50		100	90-110			
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LCS Dup (B232981-BSD1)

Prepared & Analyzed: 09-Oct-23

Fluoride	2.50	0.100	mg/L	2.50		100	90-110	0.200	20	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
12-Oct-23 15:36

Total Recoverable Metals by ICP (E200.7) - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B233005 - Total Recoverable by ICP**Blank (B233005-BLK1)**

Prepared: 09-Oct-23 Analyzed: 10-Oct-23

Sodium	ND	1.00	mg/L							
Calcium	ND	0.200	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							

LCS (B233005-BS1)

Prepared: 09-Oct-23 Analyzed: 10-Oct-23

Sodium	1.68	1.00	mg/L	1.62		103	85-115			
Potassium	4.00	1.00	mg/L	4.00		99.9	85-115			
Magnesium	10.1	0.100	mg/L	10.0		101	85-115			
Calcium	1.97	0.200	mg/L	2.00		98.3	85-115			

LCS Dup (B233005-BSD1)

Prepared: 09-Oct-23 Analyzed: 10-Oct-23

Potassium	3.99	1.00	mg/L	4.00		99.7	85-115	0.184	20	
Calcium	1.96	0.200	mg/L	2.00		98.1	85-115	0.150	20	
Sodium	1.63	1.00	mg/L	1.62		101	85-115	2.59	20	
Magnesium	10.1	0.100	mg/L	10.0		101	85-115	0.146	20	

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



Page 18 of 18

+ Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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

October 20, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BLACK RIVER SPILL

Enclosed are the results of analyses for samples received by the laboratory on 10/13/23 8:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C - 1 1.5'	H235597-01	Soil	12-Oct-23 08:30	13-Oct-23 08:53
C - 2 1.5'	H235597-02	Soil	12-Oct-23 08:40	13-Oct-23 08:53
C - 3 2.5'	H235597-03	Soil	12-Oct-23 08:50	13-Oct-23 08:53
C - 4 2'	H235597-04	Soil	12-Oct-23 09:00	13-Oct-23 08:53
C - 5 2'	H235597-05	Soil	12-Oct-23 09:30	13-Oct-23 08:53
C - 6 2.5'	H235597-06	Soil	12-Oct-23 09:40	13-Oct-23 08:53
C - 7 1.5'	H235597-07	Soil	12-Oct-23 09:50	13-Oct-23 08:53
C - 8 0.5'	H235597-08	Soil	12-Oct-23 10:00	13-Oct-23 08:53
C - 9 0.5'	H235597-09	Soil	12-Oct-23 10:10	13-Oct-23 08:53
C - 10 0.5'	H235597-10	Soil	12-Oct-23 10:20	13-Oct-23 08:53
SW - 1	H235597-11	Soil	12-Oct-23 09:05	13-Oct-23 08:53
SW - 2	H235597-12	Soil	12-Oct-23 09:10	13-Oct-23 08:53
SW - 3	H235597-13	Soil	12-Oct-23 10:25	13-Oct-23 08:53
SW - 4	H235597-14	Soil	12-Oct-23 10:35	13-Oct-23 08:53
SW - 5	H235597-15	Soil	12-Oct-23 10:40	13-Oct-23 08:53
SW - 6	H235597-16	Soil	12-Oct-23 10:45	13-Oct-23 08:53

TCLP extract tumbled outside of the method temperature of 23 +/- 2C at 20.4-22.5C. Results may be affected.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

C - 1 1.5'
H235597-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	3101329	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101311	MS	14-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134 3101311 MS 14-Oct-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	

Surrogate: 1-Chlorooctane 92.8 % 48.2-134 3101313 MS 13-Oct-23 8015B

Surrogate: 1-Chlorooctadecane 107 % 49.1-148 3101313 MS 13-Oct-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

C - 2 1.5'
H235597-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	3101329	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101311	MS	14-Oct-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	71.5-134		3101311	MS	14-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.0 %	48.2-134		3101313	MS	13-Oct-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			87.4 %	49.1-148		3101313	MS	13-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

C - 3 2.5'
H235597-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	3101329	AC	13-Oct-23	4500-Cl-B	
Ignitability	>140		50.0	°F	1	3081432	AC	16-Oct-23	ASTM D 93-80	
pH*	7.73		0.100	pH Units	1	3101338	AC	13-Oct-23	9045	
Temperature °C	18.6			pH Units	1	3101338	AC	13-Oct-23	9045	
Reactive Cyanide	<0.100		0.100	mg/kg	1	3101339	AC	13-Oct-23	9010	
Reactive Sulfide	0.0700		0.0100	mg/kg	1	3101339	AC	13-Oct-23	9030	

TCLP Semivolatile Organic Compounds by GCMS

Pyridine*	<0.010	0.010	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
1,4-Dichlorobenzene*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
2-Methylphenol*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
4-Methylphenol*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Hexachloroethane*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Nitrobenzene*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Hexachlorobutadiene*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
2,4,6-Trichlorophenol*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
2,4,5-Trichlorophenol*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
2,4-Dinitrotoluene*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Hexachlorobenzene*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Pentachlorophenol*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Surrogate: 2-Fluorophenol		67.1 %	10.4-64.4		3101736	MS	20-Oct-23	1311/8270C	S-06
Surrogate: Phenol-d5		47.8 %	-46.9-108		3101736	MS	20-Oct-23	1311/8270C	
Surrogate: Nitrobenzene-d5		92.0 %	20.3-96.6		3101736	MS	20-Oct-23	1311/8270C	
Surrogate: 2-Fluorobiphenyl		87.0 %	18.9-97.9		3101736	MS	20-Oct-23	1311/8270C	
Surrogate: 2,4,6-Tribromophenol		114 %	31-103		3101736	MS	20-Oct-23	1311/8270C	S-06
Surrogate: Terphenyl-d14		95.6 %	14.7-112		3101736	MS	20-Oct-23	1311/8270C	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

C - 3 2.5'
H235597-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		99.5 %	71.5-134		3101311	MS	14-Oct-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
Surrogate: 1-Chlorooctane		99.9 %	48.2-134		3101313	MS	13-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane		116 %	49.1-148		3101313	MS	13-Oct-23	8015B	

TCLP Volatile Organic Compounds by EPA Method 1311/8260B

Vinyl chloride*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
2-Butanone*	<0.100	0.100	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
1,1-Dichloroethene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Chloroform*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Carbon tetrachloride*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Benzene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
1,2-Dichloroethane*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Trichloroethene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Tetrachloroethene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Chlorobenzene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
1,4 Dichlorobenzene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Surrogate: Dibromofluoromethane		100 %	82.4-141		3101614	MS	20-Oct-23	1311/8260B	
Surrogate: Toluene-d8		98.1 %	87.1-110		3101614	MS	20-Oct-23	1311/8260B	
Surrogate: 4-Bromofluorobenzene		97.8 %	76.4-114		3101614	MS	20-Oct-23	1311/8260B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

C - 3 2.5'
H235597-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories**TCLP Metals by ICP (1311)**

Arsenic	<0.500		0.500	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Barium	<0.250		0.250	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Cadmium	<0.250		0.250	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Chromium	<0.250		0.250	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Lead	<0.500		0.500	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Selenium	<0.500		0.500	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Silver	<0.250		0.250	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	

TCLP Mercury by CVAFS

Mercury	<100		100	ng/L	1	B233108	CAI	20-Oct-23	EPA245.7/13 11	V2
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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

C - 4 2'
H235597-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	3101329	AC	13-Oct-23	4500-Cl-B	
Ignitability	>140		50.0	°F	1	3081432	AC	16-Oct-23	ASTM D 93-80	
pH*	7.91		0.100	pH Units	1	3101338	AC	13-Oct-23	9045	
Temperature °C	18.6			pH Units	1	3101338	AC	13-Oct-23	9045	
Reactive Cyanide	<0.100		0.100	mg/kg	1	3101339	AC	13-Oct-23	9010	
Reactive Sulfide	0.0500		0.0100	mg/kg	1	3101339	AC	13-Oct-23	9030	

TCLP Semivolatile Organic Compounds by GCMS

Pyridine*	<0.010	0.010	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
1,4-Dichlorobenzene*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
2-Methylphenol*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
4-Methylphenol*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Hexachloroethane*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Nitrobenzene*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Hexachlorobutadiene*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
2,4,6-Trichlorophenol*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
2,4,5-Trichlorophenol*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
2,4-Dinitrotoluene*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Hexachlorobenzene*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Pentachlorophenol*	<0.005	0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Surrogate: 2-Fluorophenol		48.5 %	10.4-64.4		3101736	MS	20-Oct-23	1311/8270C	
Surrogate: Phenol-d5		38.3 %	-46.9-108		3101736	MS	20-Oct-23	1311/8270C	
Surrogate: Nitrobenzene-d5		77.7 %	20.3-96.6		3101736	MS	20-Oct-23	1311/8270C	
Surrogate: 2-Fluorobiphenyl		74.2 %	18.9-97.9		3101736	MS	20-Oct-23	1311/8270C	
Surrogate: 2,4,6-Tribromophenol		100 %	31-103		3101736	MS	20-Oct-23	1311/8270C	
Surrogate: Terphenyl-d14		84.8 %	14.7-112		3101736	MS	20-Oct-23	1311/8270C	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

C - 4 2'
H235597-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3101311	MS	14-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		101 %	71.5-134		3101311	MS	14-Oct-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
Surrogate: 1-Chlorooctane		96.3 %	48.2-134		3101313	MS	13-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane		111 %	49.1-148		3101313	MS	13-Oct-23	8015B	

TCLP Volatile Organic Compounds by EPA Method 1311/8260B

Vinyl chloride*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
2-Butanone*	<0.100	0.100	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
1,1-Dichloroethene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Chloroform*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Carbon tetrachloride*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Benzene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
1,2-Dichloroethane*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Trichloroethene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Tetrachloroethene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Chlorobenzene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
1,4 Dichlorobenzene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Surrogate: Dibromofluoromethane		101 %	82.4-141		3101614	MS	20-Oct-23	1311/8260B	
Surrogate: Toluene-d8		100 %	87.1-110		3101614	MS	20-Oct-23	1311/8260B	
Surrogate: 4-Bromofluorobenzene		99.1 %	76.4-114		3101614	MS	20-Oct-23	1311/8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

C - 4 2'
H235597-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories**TCLP Metals by ICP (1311)**

Arsenic	<0.500		0.500	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Barium	<0.250		0.250	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Cadmium	<0.250		0.250	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Chromium	<0.250		0.250	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Lead	<0.500		0.500	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Selenium	<0.500		0.500	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Silver	<0.250		0.250	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	

TCLP Mercury by CVAFS

Mercury	<100		100	ng/L	1	B233108	CAI	20-Oct-23	EPA245.7/13 11	V2
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

C - 5 2'
H235597-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	3101329	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101312	JH	13-Oct-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %		71.5-134	3101312	JH	13-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.2 %		48.2-134	3101313	MS	13-Oct-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			113 %		49.1-148	3101313	MS	13-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

C - 6 2.5'
H235597-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	3101329	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101312	JH	13-Oct-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %		71.5-134	3101312	JH	13-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.1 %		48.2-134	3101313	MS	13-Oct-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.7 %		49.1-148	3101313	MS	13-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

C - 7 1.5'
H235597-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1620		16.0	mg/kg	4	3101329	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101312	JH	13-Oct-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %	71.5-134		3101312	JH	13-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.0 %	48.2-134		3101313	MS	13-Oct-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			106 %	49.1-148		3101313	MS	13-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

C - 8 0.5'
H235597-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	928		16.0	mg/kg	4	3101329	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101312	JH	13-Oct-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	71.5-134		3101312	JH	13-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.9 %	48.2-134		3101313	MS	13-Oct-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %	49.1-148		3101313	MS	13-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

C - 9 0.5'
H235597-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3080		16.0	mg/kg	4	3101329	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101312	JH	13-Oct-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %		71.5-134	3101312	JH	13-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			81.7 %		48.2-134	3101313	MS	13-Oct-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.0 %		49.1-148	3101313	MS	13-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

C - 10 0.5'
H235597-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1310		16.0	mg/kg	4	3101329	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101312	JH	13-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134 3101312 JH 13-Oct-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	

Surrogate: 1-Chlorooctane 76.7 % 48.2-134 3101313 MS 13-Oct-23 8015B

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148 3101313 MS 13-Oct-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

SW - 1**H235597-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	544		16.0	mg/kg	4	3101337	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101312	JH	13-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	111 %		71.5-134			3101312	JH	13-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	

Surrogate: 1-Chlorooctane	71.7 %		48.2-134			3101313	MS	13-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane	83.4 %		49.1-148			3101313	MS	13-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

SW - 2**H235597-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	3101337	AC	13-Oct-23	4500-Cl-B	
Ignitability	>140		50.0	°F	1	3101340	AC	17-Oct-23	ASTM D 93-80	
pH*	7.71		0.100	pH Units	1	3101338	AC	13-Oct-23	9045	
Temperature °C	18.6			pH Units	1	3101338	AC	13-Oct-23	9045	
Reactive Cyanide	<0.100		0.100	mg/kg	1	3101339	AC	13-Oct-23	9010	
Reactive Sulfide	0.0500		0.0100	mg/kg	1	3101339	AC	13-Oct-23	9030	

TCLP Semivolatile Organic Compounds by GCMS

Pyridine*	<0.010		0.010	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
1,4-Dichlorobenzene*	<0.005		0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
2-Methylphenol*	<0.005		0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
4-Methylphenol*	<0.005		0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Hexachloroethane*	<0.005		0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Nitrobenzene*	<0.005		0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Hexachlorobutadiene*	<0.005		0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
2,4,6-Trichlorophenol*	<0.005		0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
2,4,5-Trichlorophenol*	<0.005		0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
2,4-Dinitrotoluene*	<0.005		0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Hexachlorobenzene*	<0.005		0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Pentachlorophenol*	<0.005		0.005	mg/L	5	3101736	MS	20-Oct-23	1311/8270C	
Surrogate: 2-Fluorophenol			51.3 %	10.4-64.4		3101736	MS	20-Oct-23	1311/8270C	
Surrogate: Phenol-d5			38.6 %	-46.9-108		3101736	MS	20-Oct-23	1311/8270C	
Surrogate: Nitrobenzene-d5			84.2 %	20.3-96.6		3101736	MS	20-Oct-23	1311/8270C	
Surrogate: 2-Fluorobiphenyl			80.6 %	18.9-97.9		3101736	MS	20-Oct-23	1311/8270C	
Surrogate: 2,4,6-Tribromophenol			113 %	31-103		3101736	MS	20-Oct-23	1311/8270C	S-06
Surrogate: Terphenyl-d14			93.6 %	14.7-112		3101736	MS	20-Oct-23	1311/8270C	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

SW - 2**H235597-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		107 %		71.5-134	3101312	JH	13-Oct-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
Surrogate: 1-Chlorooctane		86.4 %		48.2-134	3101313	MS	13-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane		99.6 %		49.1-148	3101313	MS	13-Oct-23	8015B	

TCLP Volatile Organic Compounds by EPA Method 1311/8260B

Vinyl chloride*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
2-Butanone*	<0.100	0.100	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
1,1-Dichloroethene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Chloroform*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Carbon tetrachloride*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Benzene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
1,2-Dichloroethane*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Trichloroethene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Tetrachloroethene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Chlorobenzene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
1,4 Dichlorobenzene*	<0.025	0.025	mg/L	50	3101614	MS	20-Oct-23	1311/8260B	
Surrogate: Dibromofluoromethane		100 %		82.4-141	3101614	MS	20-Oct-23	1311/8260B	
Surrogate: Toluene-d8		99.5 %		87.1-110	3101614	MS	20-Oct-23	1311/8260B	
Surrogate: 4-Bromofluorobenzene		96.3 %		76.4-114	3101614	MS	20-Oct-23	1311/8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

SW - 2**H235597-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories**TCLP Metals by ICP (1311)**

Arsenic	<0.500		0.500	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Barium	<0.250		0.250	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Cadmium	<0.250		0.250	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Chromium	<0.250		0.250	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Lead	<0.500		0.500	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Selenium	<0.500		0.500	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	
Silver	<0.250		0.250	mg/L	5	B233103	AES	18-Oct-23	EPA200.7/13 11	

TCLP Mercury by CVAFS

Mercury	<100		100	ng/L	1	B233108	CAI	20-Oct-23	EPA245.7/13 11	V2
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

SW - 3**H235597-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	3101337	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101312	JH	13-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		3101312	JH	13-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	

Surrogate: 1-Chlorooctane			80.5 %	48.2-134		3101313	MS	13-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			93.7 %	49.1-148		3101313	MS	13-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

SW - 4**H235597-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	3101337	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101312	JH	13-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		3101312	JH	13-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	

Surrogate: 1-Chlorooctane			95.9 %	48.2-134		3101313	MS	13-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			110 %	49.1-148		3101313	MS	13-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

SW - 5**H235597-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3101337	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101312	JH	13-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.1 %		71.5-134	3101312	JH	13-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	

Surrogate: 1-Chlorooctane			72.3 %		48.2-134	3101313	MS	13-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			84.7 %		49.1-148	3101313	MS	13-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

SW - 6**H235597-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	288		16.0	mg/kg	4	3101337	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101312	JH	13-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101312	JH	13-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.3 %		71.5-134	3101312	JH	13-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101313	MS	13-Oct-23	8015B	

Surrogate: 1-Chlorooctane			88.8 %		48.2-134	3101313	MS	13-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			103 %		49.1-148	3101313	MS	13-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3081432 - General Prep - Wet Chem**LCS (3081432-BS1)**

Prepared: 15-Aug-23 Analyzed: 16-Aug-23

Ignitability	78.0		°F	80.0		97.5	93.75-106.3			
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Duplicate (3081432-DUP1)

Source: H234343-01

Prepared & Analyzed: 16-Aug-23

Ignitability	>140	50.0	°F		ND				20	
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Batch 3101329 - 1:4 DI Water**Blank (3101329-BLK1)**

Prepared & Analyzed: 13-Oct-23

Chloride	ND	16.0	mg/kg							
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LCS (3101329-BS1)

Prepared & Analyzed: 13-Oct-23

Chloride	416	16.0	mg/kg	400		104	80-120			
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LCS Dup (3101329-BSD1)

Prepared & Analyzed: 13-Oct-23

Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
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Batch 3101337 - 1:4 DI Water**Blank (3101337-BLK1)**

Prepared & Analyzed: 13-Oct-23

Chloride	ND	16.0	mg/kg							
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LCS (3101337-BS1)

Prepared & Analyzed: 13-Oct-23

Chloride	432	16.0	mg/kg	400		108	80-120			
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LCS Dup (3101337-BSD1)

Prepared & Analyzed: 13-Oct-23

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3101338 - General Prep - Wet Chem**LCS (3101338-BS1)**

Prepared & Analyzed: 13-Oct-23

pH	7.01		pH Units	7.00		100	90-110			
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Duplicate (3101338-DUP1)

Source: H235597-03

Prepared & Analyzed: 13-Oct-23

pH	7.80	0.100	pH Units	7.73				0.901	20	
Temperature °C	18.7		pH Units	18.6				0.536	200	

Batch 3101339 - General Prep - Wet Chem**Blank (3101339-BLK1)**

Prepared & Analyzed: 13-Oct-23

Reactive Cyanide	ND	0.100	mg/kg							
Reactive Sulfide	ND	0.0100	mg/kg							

Duplicate (3101339-DUP1)

Source: H235597-03

Prepared & Analyzed: 13-Oct-23

Reactive Sulfide	0.0600	0.0100	mg/kg	0.0700				15.4	20	
Reactive Cyanide	0.0100	0.100	mg/kg	0.0100				0.00	20	

Batch 3101340 - General Prep - Wet Chem**LCS (3101340-BS1)**

Prepared: 13-Oct-23 Analyzed: 17-Oct-23

Ignitability	78.0		°F	80.0		97.5	93.75-106.3			
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Duplicate (3101340-DUP1)

Source: H235597-12

Prepared: 13-Oct-23 Analyzed: 17-Oct-23

Ignitability	>140	50.0	°F	>140					20	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

TCLP Semivolatile Organic Compounds by GCMS - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3101736 - SW846-3510**Blank (3101736-BLK1)**

Prepared: 17-Oct-23 Analyzed: 20-Oct-23

Pyridine	ND	0.002	mg/L							
1,4-Dichlorobenzene	ND	0.001	mg/L							
2-Methylphenol	ND	0.001	mg/L							
4-Methylphenol	ND	0.001	mg/L							
Hexachloroethane	ND	0.001	mg/L							
Nitrobenzene	ND	0.001	mg/L							
Hexachlorobutadiene	ND	0.001	mg/L							
2,4,6-Trichlorophenol	ND	0.001	mg/L							
2,4,5-Trichlorophenol	ND	0.001	mg/L							
2,4-Dinitrotoluene	ND	0.001	mg/L							
Hexachlorobenzene	ND	0.001	mg/L							
Pentachlorophenol	ND	0.001	mg/L							
Surrogate: 2-Fluorophenol	0.0134		mg/L	0.0500		26.9	10.4-64.4			
Surrogate: Phenol-d5	0.0107		mg/L	0.0500		21.3	-46.9-108			
Surrogate: Nitrobenzene-d5	0.0217		mg/L	0.0500		43.4	20.3-96.6			
Surrogate: 2-Fluorobiphenyl	0.0255		mg/L	0.0500		51.0	18.9-97.9			
Surrogate: 2,4,6-Tribromophenol	0.0328		mg/L	0.0500		65.6	31-103			
Surrogate: Terphenyl-d14	0.0328		mg/L	0.0500		65.6	14.7-112			

LCS (3101736-BS1)

Prepared: 17-Oct-23 Analyzed: 20-Oct-23

Pyridine	0.005	0.002	mg/L	0.0100		51.8	1-117			
1,4-Dichlorobenzene	0.006	0.001	mg/L	0.0100		64.8	13-106			
2-Methylphenol	0.008	0.001	mg/L	0.0100		76.4	28.2-106			
4-Methylphenol	0.007	0.001	mg/L	0.0100		68.0	1-147			
Hexachloroethane	0.006	0.001	mg/L	0.0100		64.0	7.07-103			
Nitrobenzene	0.007	0.001	mg/L	0.0100		70.8	21.1-128			
Hexachlorobutadiene	0.007	0.001	mg/L	0.0100		66.7	10.3-105			
2,4,6-Trichlorophenol	0.008	0.001	mg/L	0.0100		82.6	28.2-134			
2,4,5-Trichlorophenol	0.008	0.001	mg/L	0.0100		79.0	28.2-136			
2,4-Dinitrotoluene	0.009	0.001	mg/L	0.0100		88.9	28.7-135			
Hexachlorobenzene	0.009	0.001	mg/L	0.0100		85.3	24.8-135			
Pentachlorophenol	0.011	0.001	mg/L	0.0100		113	19.3-129			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

TCLP Semivolatile Organic Compounds by GCMS - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3101736 - SW846-3510**LCS (3101736-BS1)**

Prepared: 17-Oct-23 Analyzed: 20-Oct-23

Surrogate: 2-Fluorophenol	0.0213		mg/L	0.0500		42.6	10.4-64.4			
Surrogate: Phenol-d5	0.0150		mg/L	0.0500		29.9	-46.9-108			
Surrogate: Nitrobenzene-d5	0.0319		mg/L	0.0500		63.9	20.3-96.6			
Surrogate: 2-Fluorobiphenyl	0.0343		mg/L	0.0500		68.6	18.9-97.9			
Surrogate: 2,4,6-Tribromophenol	0.0454		mg/L	0.0500		90.9	31-103			
Surrogate: Terphenyl-d14	0.0385		mg/L	0.0500		76.9	14.7-112			

LCS Dup (3101736-BS1)

Prepared: 17-Oct-23 Analyzed: 20-Oct-23

Pyridine	0.005	0.002	mg/L	0.0100		49.0	1-117	5.56	9.28	
1,4-Dichlorobenzene	0.006	0.001	mg/L	0.0100		63.3	13-106	2.34	5.91	
2-Methylphenol	0.008	0.001	mg/L	0.0100		75.3	28.2-106	1.45	7.22	
4-Methylphenol	0.007	0.001	mg/L	0.0100		65.6	1-147	3.59	63.6	
Hexachloroethane	0.007	0.001	mg/L	0.0100		65.3	7.07-103	2.01	7.41	
Nitrobenzene	0.007	0.001	mg/L	0.0100		69.4	21.1-128	2.00	4.5	
Hexachlorobutadiene	0.006	0.001	mg/L	0.0100		64.9	10.3-105	2.74	9.93	
2,4,6-Trichlorophenol	0.008	0.001	mg/L	0.0100		81.5	28.2-134	1.34	8.15	
2,4,5-Trichlorophenol	0.008	0.001	mg/L	0.0100		80.4	28.2-136	1.76	14.6	
2,4-Dinitrotoluene	0.009	0.001	mg/L	0.0100		88.2	28.7-135	0.791	7.59	
Hexachlorobenzene	0.009	0.001	mg/L	0.0100		85.4	24.8-135	0.117	4.94	
Pentachlorophenol	0.011	0.001	mg/L	0.0100		111	19.3-129	2.23	11.3	
Surrogate: 2-Fluorophenol	0.0209		mg/L	0.0500		41.7	10.4-64.4			
Surrogate: Phenol-d5	0.0147		mg/L	0.0500		29.3	-46.9-108			
Surrogate: Nitrobenzene-d5	0.0315		mg/L	0.0500		63.0	20.3-96.6			
Surrogate: 2-Fluorobiphenyl	0.0346		mg/L	0.0500		69.2	18.9-97.9			
Surrogate: 2,4,6-Tribromophenol	0.0449		mg/L	0.0500		89.8	31-103			
Surrogate: Terphenyl-d14	0.0380		mg/L	0.0500		76.1	14.7-112			

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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3101311 - Volatiles**Blank (3101311-BLK1)**

Prepared: 13-Oct-23 Analyzed: 14-Oct-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.6	71.5-134			

LCS (3101311-BS1)

Prepared & Analyzed: 13-Oct-23

Benzene	1.90	0.050	mg/kg	2.00		94.9	82.8-130			
Toluene	1.96	0.050	mg/kg	2.00		98.1	86-128			
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.7	85.9-128			
m,p-Xylene	3.99	0.100	mg/kg	4.00		99.9	89-129			
o-Xylene	1.88	0.050	mg/kg	2.00		93.9	86.1-125			
Total Xylenes	5.87	0.150	mg/kg	6.00		97.9	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0469		mg/kg	0.0500		93.8	71.5-134			

LCS Dup (3101311-BSD1)

Prepared: 13-Oct-23 Analyzed: 14-Oct-23

Benzene	1.93	0.050	mg/kg	2.00		96.6	82.8-130	1.76	15.8	
Toluene	2.00	0.050	mg/kg	2.00		100	86-128	1.90	15.9	
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	85.9-128	2.62	16	
m,p-Xylene	4.14	0.100	mg/kg	4.00		104	89-129	3.59	16.2	
o-Xylene	1.91	0.050	mg/kg	2.00		95.7	86.1-125	1.89	16.7	
Total Xylenes	6.05	0.150	mg/kg	6.00		101	88.2-128	3.05	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0478		mg/kg	0.0500		95.6	71.5-134			

Batch 3101312 - Volatiles**Blank (3101312-BLK1)**

Prepared & Analyzed: 13-Oct-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3101312 - Volatiles**Blank (3101312-BLK1)**

Prepared & Analyzed: 13-Oct-23

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

LCS (3101312-BS1)

Prepared & Analyzed: 13-Oct-23

Benzene	1.94	0.050	mg/kg	2.00		96.9	82.8-130			
Toluene	1.89	0.050	mg/kg	2.00		94.5	86-128			
Ethylbenzene	2.03	0.050	mg/kg	2.00		102	85.9-128			
m,p-Xylene	4.04	0.100	mg/kg	4.00		101	89-129			
o-Xylene	2.05	0.050	mg/kg	2.00		103	86.1-125			
Total Xylenes	5.93	0.150	mg/kg	6.00		98.9	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	71.5-134			

LCS Dup (3101312-BSD1)

Prepared & Analyzed: 13-Oct-23

Benzene	2.01	0.050	mg/kg	2.00		100	82.8-130	3.51	15.8	
Toluene	1.89	0.050	mg/kg	2.00		94.3	86-128	0.190	15.9	
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.7	85.9-128	4.96	16	
m,p-Xylene	3.89	0.100	mg/kg	4.00		97.1	89-129	3.95	16.2	
o-Xylene	1.95	0.050	mg/kg	2.00		97.6	86.1-125	5.12	16.7	
Total Xylenes	5.84	0.150	mg/kg	6.00		97.3	88.2-128	1.64	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.0	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 3101313 - General Prep - Organics**Blank (3101313-BLK1)**

Prepared & Analyzed: 13-Oct-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	42.6		mg/kg	50.0		85.3	48.2-134			
Surrogate: 1-Chlorooctadecane	51.5		mg/kg	50.0		103	49.1-148			

LCS (3101313-BS1)

Prepared & Analyzed: 13-Oct-23

GRO C6-C10	173	10.0	mg/kg	200		86.4	66.4-123			
DRO >C10-C28	205	10.0	mg/kg	200		103	66.5-118			
Total TPH C6-C28	378	10.0	mg/kg	400		94.5	77.6-123			
Surrogate: 1-Chlorooctane	40.9		mg/kg	50.0		81.8	48.2-134			
Surrogate: 1-Chlorooctadecane	45.6		mg/kg	50.0		91.1	49.1-148			

LCS Dup (3101313-BS1)

Prepared & Analyzed: 13-Oct-23

GRO C6-C10	173	10.0	mg/kg	200		86.3	66.4-123	0.0411	17.7	
DRO >C10-C28	192	10.0	mg/kg	200		96.2	66.5-118	6.38	21	
Total TPH C6-C28	365	10.0	mg/kg	400		91.3	77.6-123	3.43	18.5	
Surrogate: 1-Chlorooctane	42.0		mg/kg	50.0		84.0	48.2-134			
Surrogate: 1-Chlorooctadecane	51.6		mg/kg	50.0		103	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3101614 - Volatiles**Blank (3101614-BLK1)**

Prepared: 16-Oct-23 Analyzed: 17-Oct-23

Vinyl chloride	ND	0.0005	mg/L							
2-Butanone	ND	0.002	mg/L							
1,1-Dichloroethene	ND	0.0005	mg/L							
Chloroform	ND	0.0005	mg/L							
Carbon tetrachloride	ND	0.0005	mg/L							
Benzene	ND	0.0005	mg/L							
1,2-Dichloroethane	ND	0.0005	mg/L							
Trichloroethene	ND	0.0005	mg/L							
Tetrachloroethene	ND	0.0005	mg/L							
Chlorobenzene	ND	0.0005	mg/L							
1,4 Dichlorobenzene	ND	0.0005	mg/L							

Surrogate: Dibromofluoromethane 0.0264 mg/L 0.0250 106 82.4-141

Surrogate: Toluene-d8 0.0248 mg/L 0.0250 99.0 87.1-110

Surrogate: 4-Bromofluorobenzene 0.0236 mg/L 0.0250 94.3 76.4-114

LCS (3101614-BS1)

Prepared: 16-Oct-23 Analyzed: 17-Oct-23

Vinyl chloride	0.021	0.0005	mg/L	0.0200		105	73.4-137			
2-Butanone	0.047	0.002	mg/L	0.0400		118	69.2-152			
1,1-Dichloroethene	0.023	0.0005	mg/L	0.0200		115	69.4-135			
Chloroform	0.019	0.0005	mg/L	0.0200		95.9	88.1-124			
Carbon tetrachloride	0.023	0.0005	mg/L	0.0200		117	85.8-125			
Benzene	0.020	0.0005	mg/L	0.0200		99.6	85.9-114			
1,2-Dichloroethane	0.021	0.0005	mg/L	0.0200		105	80.8-125			
Trichloroethene	0.018	0.0005	mg/L	0.0200		92.2	73.1-117			
Tetrachloroethene	0.019	0.0005	mg/L	0.0200		93.8	66.8-126			
Chlorobenzene	0.019	0.0005	mg/L	0.0200		96.0	88.8-112			
1,4 Dichlorobenzene	0.019	0.0005	mg/L	0.0200		97.1	80.9-112			

Surrogate: Dibromofluoromethane 0.0259 mg/L 0.0250 103 82.4-141

Surrogate: Toluene-d8 0.0254 mg/L 0.0250 102 87.1-110

Surrogate: 4-Bromofluorobenzene 0.0247 mg/L 0.0250 98.8 76.4-114

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3101614 - Volatiles**LCS Dup (3101614-BSD1)**

Prepared: 16-Oct-23 Analyzed: 17-Oct-23

Vinyl chloride	0.020	0.0005	mg/L	0.0200		102	73.4-137	2.46	23	
2-Butanone	0.040	0.002	mg/L	0.0400		101	69.2-152	15.8	14.2	QR-04
1,1-Dichloroethene	0.021	0.0005	mg/L	0.0200		106	69.4-135	7.96	16.5	
Chloroform	0.020	0.0005	mg/L	0.0200		97.8	88.1-124	1.91	5.15	
Carbon tetrachloride	0.021	0.0005	mg/L	0.0200		104	85.8-125	12.1	11.4	QR-04
Benzene	0.019	0.0005	mg/L	0.0200		96.4	85.9-114	3.22	4.16	
1,2-Dichloroethane	0.021	0.0005	mg/L	0.0200		103	80.8-125	1.73	8.94	
Trichloroethene	0.018	0.0005	mg/L	0.0200		87.8	73.1-117	4.94	4.92	QR-04
Tetrachloroethene	0.019	0.0005	mg/L	0.0200		92.8	66.8-126	1.07	6.38	
Chlorobenzene	0.019	0.0005	mg/L	0.0200		93.8	88.8-112	2.37	5.18	
1,4 Dichlorobenzene	0.019	0.0005	mg/L	0.0200		94.8	80.9-112	2.40	7.71	
Surrogate: Dibromofluoromethane	0.0255		mg/L	0.0250		102	82.4-141			
Surrogate: Toluene-d8	0.0249		mg/L	0.0250		99.7	87.1-110			
Surrogate: 4-Bromofluorobenzene	0.0247		mg/L	0.0250		98.8	76.4-114			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

TCLP Metals by ICP (1311) - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B233103 - EPA 1311**Blank (B233103-BLK1)**

Prepared: 17-Oct-23 Analyzed: 18-Oct-23

Lead	ND	0.500	mg/L
Arsenic	ND	0.500	mg/L
Silver	ND	0.250	mg/L
Cadmium	ND	0.250	mg/L
Chromium	ND	0.250	mg/L
Selenium	ND	0.500	mg/L
Barium	ND	0.250	mg/L

LCS (B233103-BS1)

Prepared: 17-Oct-23 Analyzed: 18-Oct-23

Arsenic	9.86	0.500	mg/L	10.0	98.6	85-115
Silver	0.245	0.250	mg/L	0.250	98.0	85-115
Selenium	20.1	0.500	mg/L	20.0	100	85-115
Lead	4.94	0.500	mg/L	5.00	98.9	85-115
Barium	4.88	0.250	mg/L	5.00	97.6	85-115
Chromium	4.94	0.250	mg/L	5.00	98.9	85-115
Cadmium	4.89	0.250	mg/L	5.00	97.7	85-115

LCS Dup (B233103-BSD1)

Prepared: 17-Oct-23 Analyzed: 18-Oct-23

Lead	4.89	0.500	mg/L	5.00	97.8	85-115	1.07	20
Selenium	20.2	0.500	mg/L	20.0	101	85-115	0.710	20
Cadmium	4.84	0.250	mg/L	5.00	96.9	85-115	0.876	20
Silver	0.246	0.250	mg/L	0.250	98.5	85-115	0.488	20
Barium	4.85	0.250	mg/L	5.00	97.0	85-115	0.580	20
Arsenic	9.76	0.500	mg/L	10.0	97.6	85-115	1.03	20
Chromium	4.92	0.250	mg/L	5.00	98.5	85-115	0.438	20

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: BLACK RIVER SPILL
Project Number: 700261.002.01
Project Manager: CHAD HENSLEY
Fax To: (575) 745-8905

Reported:
20-Oct-23 16:19

TCLP Mercury by CVAFS - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B233108 - EPA 245.7**Blank (B233108-BLK1)**

Prepared: 18-Oct-23 Analyzed: 20-Oct-23

Mercury	ND	100	ng/L							V2
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LCS (B233108-BS1)

Prepared: 18-Oct-23 Analyzed: 20-Oct-23

Mercury	1760	100	ng/L	2000		88.0	76-113			V2
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LCS Dup (B233108-BSD1)

Prepared: 18-Oct-23 Analyzed: 20-Oct-23

Mercury	1730	100	ng/L	2000		86.7	76-113	1.50	20	V2
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Notes and Definitions

Z-01	>140
V2	Continuing calibration verification recovery was above method acceptance limits. Result potentially biased high.
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE		P.O. #:		BILL TO		ANALYSIS REQUEST																							
Project Manager: C. Hensley		Company: Coterra																											
Address: 408 W. Texas Ave		Attn: Laci Luig																											
City: Artesia		Address:																											
Phone #: 575.746.8768		City:																											
Fax #: 575.746.8768		State:																											
Project #: 700261.002.01		Zip:																											
Project Owner: Coterra																													
Project Name: Black River Spill																													
Project Location: Eddy County, NM																													
Sample Name: M. Gomez, B. Medley																													
FOR LAB USE ONLY																													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING																					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH												
1	C-1 1.5'	C	1			✓							10/12/23	8:30	✓	✓	✓	Full TCLP											
2	C-2 1.5'	C	1			✓								8:40	✓	✓	✓												
3	C-3 2.5'	C	9			✓								8:50	✓	✓	✓												
4	C-4 2'	C	9			✓								9:00	✓	✓	✓												
5	C-5 2'	C	1			✓								9:30	✓	✓	✓												
6	C-6 2.5'	C	1			✓								9:40	✓	✓	✓												
7	C-7 1.5'	C	1			✓								9:50	✓	✓	✓												
8	C-8 0.5'	C	1			✓								10:00	✓	✓	✓												
9	C-9 0.5'	C	1			✓								10:10	✓	✓	✓												
10	C-10 0.5'	C	1			✓								10/12/23	10:20	✓	✓	✓											

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Reinquished By:	Date: 10-13-23	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Bartlett Medley	0853	Shedrick	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Reinquished By:	Date:	Received By:		
	Time:			
Delivered By: (Circle One)	-1.3.	Sample Condition		
Sampler - UPS - Bus - Other:	#140	Cool Intact		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		CHECKED BY: (Initials)		
		882		

REMARKS: 1 day rush. Page 1 of 2 - CL, BTEX, TPH

TEIP: 3-5 day rush

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

Report to:
Chad Hensley



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Cotterra

Project Name: Black River Spill

Work Order: E310238

Job Number: 23042-0001

Received: 10/24/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/25/23

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/25/23

Chad Hensley
408 W Texas Ave.
Artesia, NM 88210



Project Name: Black River Spill
Workorder: E310238
Date Received: 10/24/2023 8:20:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/24/2023 8:20:00AM, under the Project Name: Black River Spill.

The analytical test results summarized in this report with the Project Name: Black River Spill apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

Cotterra 408 W Texas Ave. Artesia NM, 88210	Project Name: Black River Spill Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/25/23 17:28
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C-7 1.5'	E310238-01A	Soil	10/23/23	10/24/23	Glass Jar, 2 oz.
C-8 0.5'	E310238-02A	Soil	10/23/23	10/24/23	Glass Jar, 2 oz.
C-9 0.5'	E310238-03A	Soil	10/23/23	10/24/23	Glass Jar, 2 oz.
C-10 0.5'	E310238-04A	Soil	10/23/23	10/24/23	Glass Jar, 2 oz.



Sample Data

Cotterra 408 W Texas Ave. Artesia NM, 88210	Project Name: Black River Spill Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/25/2023 5:28:30PM
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C-7 1.5'

E310238-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
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Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2343041
Benzene	ND	0.0250	1	10/24/23	10/24/23
Ethylbenzene	ND	0.0250	1	10/24/23	10/24/23
Toluene	ND	0.0250	1	10/24/23	10/24/23
o-Xylene	ND	0.0250	1	10/24/23	10/24/23
p,m-Xylene	ND	0.0500	1	10/24/23	10/24/23
Total Xylenes	ND	0.0250	1	10/24/23	10/24/23
Surrogate: Bromofluorobenzene		103 %	70-130	10/24/23	10/24/23
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/24/23	10/24/23
Surrogate: Toluene-d8		100 %	70-130	10/24/23	10/24/23

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2343041
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/24/23
Surrogate: Bromofluorobenzene	103 %	70-130		10/24/23	10/24/23
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/24/23	10/24/23
Surrogate: Toluene-d8	100 %	70-130		10/24/23	10/24/23

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2343042
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/23	10/25/23
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/23	10/25/23
Surrogate: n-Nonane	103 %	50-200		10/24/23	10/25/23

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2343043
Chloride	327	100	5	10/24/23	10/24/23



Sample Data

Cotterra
408 W Texas Ave.
Artesia NM, 88210

Project Name: Black River Spill
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
10/25/2023 5:28:30PM

C-8 0.5'

E310238-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Benzene	ND	0.0250	1	10/24/23	10/24/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/24/23	
Toluene	ND	0.0250	1	10/24/23	10/24/23	
o-Xylene	ND	0.0250	1	10/24/23	10/24/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/24/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		99.7 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		99.7 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343042
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/23	10/25/23	
Surrogate: n-Nonane		94.6 %	50-200	10/24/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	534	200	10	10/24/23	10/24/23	



Sample Data

Cotterra
408 W Texas Ave.
Artesia NM, 88210

Project Name: Black River Spill
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
10/25/2023 5:28:30PM

C-9 0.5'

E310238-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Benzene	ND	0.0250	1	10/24/23	10/24/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/24/23	
Toluene	ND	0.0250	1	10/24/23	10/24/23	
o-Xylene	ND	0.0250	1	10/24/23	10/24/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/24/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		101 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		101 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343042
Diesel Range Organics (C10-C28)	32.6	25.0	1	10/24/23	10/25/23	
Oil Range Organics (C28-C36)	50.6	50.0	1	10/24/23	10/25/23	
Surrogate: n-Nonane		98.4 %	50-200	10/24/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	542	200	10	10/24/23	10/24/23	



Sample Data

Cotterra
408 W Texas Ave.
Artesia NM, 88210

Project Name: Black River Spill
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
10/25/2023 5:28:30PM

C-10 0.5'

E310238-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Benzene	ND	0.0250	1	10/24/23	10/24/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/24/23	
Toluene	ND	0.0250	1	10/24/23	10/24/23	
o-Xylene	ND	0.0250	1	10/24/23	10/24/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/24/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		100 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343041
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/24/23	10/24/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	10/24/23	10/24/23	
Surrogate: Toluene-d8		100 %	70-130	10/24/23	10/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343042
Diesel Range Organics (C10-C28)	35.7	25.0	1	10/24/23	10/25/23	
Oil Range Organics (C28-C36)	60.9	50.0	1	10/24/23	10/25/23	
Surrogate: n-Nonane		97.6 %	50-200	10/24/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	537	200	10	10/24/23	10/24/23	



QC Summary Data

Cotterra	Project Name:	Black River Spill	Reported:
408 W Texas Ave.	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	10/25/2023 5:28:30PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2343041-BLK1)

Prepared: 10/24/23 Analyzed: 10/24/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2343041-BS1)

Prepared: 10/24/23 Analyzed: 10/24/23

Benzene	2.15	0.0250	2.50		86.0	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.8	70-130			
Toluene	2.20	0.0250	2.50		88.0	70-130			
o-Xylene	2.32	0.0250	2.50		92.7	70-130			
p,m-Xylene	4.54	0.0500	5.00		90.8	70-130			
Total Xylenes	6.86	0.0250	7.50		91.5	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

Matrix Spike (2343041-MS1)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Benzene	2.30	0.0250	2.50	ND	92.1	48-131			
Ethylbenzene	2.34	0.0250	2.50	ND	93.4	45-135			
Toluene	2.26	0.0250	2.50	ND	90.4	48-130			
o-Xylene	2.34	0.0250	2.50	ND	93.6	43-135			
p,m-Xylene	4.58	0.0500	5.00	ND	91.6	43-135			
Total Xylenes	6.92	0.0250	7.50	ND	92.2	43-135			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

Matrix Spike Dup (2343041-MSD1)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Benzene	2.39	0.0250	2.50	ND	95.7	48-131	3.79	23	
Ethylbenzene	2.44	0.0250	2.50	ND	97.7	45-135	4.50	27	
Toluene	2.39	0.0250	2.50	ND	95.5	48-130	5.44	24	
o-Xylene	2.41	0.0250	2.50	ND	96.4	43-135	2.99	27	
p,m-Xylene	4.74	0.0500	5.00	ND	94.8	43-135	3.49	27	
Total Xylenes	7.15	0.0250	7.50	ND	95.3	43-135	3.32	27	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



QC Summary Data

Cotterra 408 W Texas Ave. Artesia NM, 88210	Project Name: Black River Spill Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/25/2023 5:28:30PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2343041-BLK1)

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2343041-BS2)

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2343041-MS2)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	93.0	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

Matrix Spike Dup (2343041-MSD2)

Source: E310221-22

Prepared: 10/24/23 Analyzed: 10/24/23

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130	9.61	20	
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			



QC Summary Data

Cotterra 408 W Texas Ave. Artesia NM, 88210	Project Name: Black River Spill Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/25/2023 5:28:30PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2343042-BLK1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.2		50.0		96.3	50-200			

LCS (2343042-BS1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	240	25.0	250		96.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.1	50-200			

Matrix Spike (2343042-MS1)					Source: E310238-02		Prepared: 10/24/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	49.1		50.0		98.3	50-200			

Matrix Spike Dup (2343042-MSD1)					Source: E310238-02		Prepared: 10/24/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132	6.50	20	
Surrogate: n-Nonane	52.1		50.0		104	50-200			



QC Summary Data

Cotterra	Project Name:	Black River Spill	Reported:
408 W Texas Ave.	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	10/25/2023 5:28:30PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2343043-BLK1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	ND	20.0							
LCS (2343043-BS1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	230	20.0	250		92.1	90-110			
Matrix Spike (2343043-MS1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	743	200	250	542	80.4	80-120			
Matrix Spike Dup (2343043-MSD1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	728	200	250	542	74.1	80-120	2.13	20	M2

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Cotterra	Project Name:	Black River Spill	
408 W Texas Ave.	Project Number:	23042-0001	Reported:
Artesia NM, 88210	Project Manager:	Chad Hensley	10/25/23 17:28

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





Envirotech Analytical Laboratory

Printed: 10/24/2023 12:57:37PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Cotterra	Date Received:	10/24/23 08:20	Work Order ID:	E310238
Phone:	(575) 746-8768	Date Logged In:	10/24/23 09:22	Logged In By:	Caitlin Mars
Email:	chensley@talonelpc.com	Due Date:	10/24/23 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID?	Yes
Date/Time Collected?	No
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



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

January 27, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: BLACK RIVER - 2023 RELEASE AREA

Enclosed are the results of analyses for samples received by the laboratory on 01/21/25 15:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	01/21/2025	Sampling Date:	01/20/2025
Reported:	01/27/2025	Sampling Type:	Soil
Project Name:	BLACK RIVER - 2023 RELEASE AREA	Sampling Condition:	Cool & Intact
Project Number:	1234	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: BACKFILL MATERIAL (H250348-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2025	ND	1.77	88.7	2.00	1.18	
Toluene*	<0.050	0.050	01/23/2025	ND	1.81	90.6	2.00	1.28	
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	1.92	95.8	2.00	1.31	
Total Xylenes*	<0.150	0.150	01/23/2025	ND	5.65	94.1	6.00	1.35	
Total BTX	<0.300	0.300	01/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/23/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	201	101	200	0.943	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	204	102	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Work Order No.:

4250348

Page 4 of 4

Work Order Comments					
Program:	UST/PST	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> IRC	<input type="checkbox"/> Iperfund
State of Project:					
Reporting Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> ST/UST	<input type="checkbox"/> RRP	<input type="checkbox"/> Level IV	<input type="checkbox"/>
Deliverables:	EDD	<input type="checkbox"/>	ADAPT	<input type="checkbox"/>	Other:

[illegible]

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

QUESTIONS

Action 434478

QUESTIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 434478
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2327753740
Incident Name	NAPP2327753740 BLACK RIVER - JOHN D FOREHAND RD CROSSING @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	BLACK RIVER - JOHN D FOREHAND RD CROSSING
Date Release Discovered	10/03/2023
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	Yes
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Vehicular Accident Transport Produced Water Released: 65 BBL Recovered: 0 BBL Lost: 65 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	At 3:15pm, a third-party trucking company hauling 125 barrels produced water from the Riverboat 12-1 WOPA & WOMD Fed Com 1 battery overturned at the Black River and John D. Forehand Road river crossing. Approximately 65 barrels of produced water released from the transport trailer to the environment, of which an unknown quantity entered the Black River. The remaining 60 barrels of produced water was recovered from the overturned trailer. The surrounding private surface owners State and Federal agencies were contacted and have been in communication with Coterra Energy (Cimarex). Coterra Energy's EHS Department will continue to manage the incident and will work with the appropriate agencies, adjacent landowner, and our conservation partner, CEHMM, to ensure that the area is properly remediated.

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QUESTIONS, Page 2

Action 434478

QUESTIONS (continued)

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (b) may with reasonable probability reach a watercourse.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 02/24/2025
--	--

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QUESTIONS, Page 3

Action 434478

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 434478
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Zero feet, overlying, or within area
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Zero feet, overlying, or within area
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Zero feet, overlying, or within area
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	3080
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	96.6
GRO+DRO (EPA SW-846 Method 8015M)	35.7
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	10/05/2023
On what date will (or did) the final sampling or liner inspection occur	10/12/2023
On what date will (or was) the remediation complete(d)	10/23/2023
What is the estimated surface area (in square feet) that will be reclaimed	2030
What is the estimated volume (in cubic yards) that will be reclaimed	127
What is the estimated surface area (in square feet) that will be remediated	2030
What is the estimated volume (in cubic yards) that will be remediated	127
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 434478

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 434478
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 02/24/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 434478

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 434478
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 434478

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 434478
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	305155
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/12/2023
What was the (estimated) number of samples that were to be gathered	16
What was the sampling surface area in square feet	1800

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2030
What was the total volume (cubic yards) remediated	127
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2030
What was the total volume (in cubic yards) reclaimed	127
Summarize any additional remediation activities not included by answers (above)	See closure report for details. Worked with local, state, and federal agencies to clean up this spill quickly and no affect to groundwater occurred. Resubmitting as a spill closure only and also included a sample of the backfill material collected onsite since the original report did not include that information.
<i>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 (in .pdf format) 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.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 02/24/2025

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Action 434478

QUESTIONS (continued)

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	Action Number: 434478
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 434478

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 434478
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	2/24/2025