



Remediation and Closure Report

West Red Lake Unit Federal Satellite Battery #81 *2RP-5671
Talon Project # 701307.126.01

Prepared For:

Lime Rock Resources 1111 Bagby St. Suite 4600 Houston, TX 77002

Prepared By:

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

February 17, 2020

Mr. Jim Amos BLM Carlsbad Field Office 620 East Greene Street Carlsbad, NM 88220

Mr. Mike Bratcher NMOCD District 2 811 S. 1st Street Artesia, NM 88210

Subject:

Remediation and Closure Report

WRLU Federal Satellite Battery #81*2RP-5671

Eddy County, NM

Dear Mr. Amos & Mr. Bratcher,

Lime Rock Resources contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our remediation and closure request are contained herein. The incident descriptions, soil sampling results, remedial actions, and closure requests are presented herein.

Site Information

WRLU Federal Satellite Battery #81 is located approximately eight (8) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter A, Section 8, Township 18 South and Range 27 East in Eddy County, New Mexico. More specifically, the latitude and longitude for the release are 32.7677155 North and -104.294693 West. A Site Map is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Gypsum lands. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Guadalupian in age and is comprised of weathered gypsum. Drainage courses in this area are well-drained.

Ground Water and Site Ranking

The New Mexico Office of the State Engineer Database indicates the average reported depth to groundwater is 96-feet below ground surface (BGS). See Appendix II for the referenced groundwater depth. This site is located within a high potential Karst area.

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

Approximate Depth to	Groundwater	96 Feet/BGS
□Yes ⊠No	Within 300 feet of any continuously flowing wa	tercourse or
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or pla	iya lake
□Yes ⊠No	Within 300 feet from an occupied permanent reschool, hospital, institution or church	esidence,
∐Yes ⊠No	Within 500 feet of a spring or a private, domes well used by less than five households for don watering purposes	
∐Yes ⊠No	Within 1000 feet of any freshwater well or spri	ng
□Yes ⊠No	Within incorporated municipal boundaries or with Municipal freshwater well field covered under ordinance adopted pursuant to Section 3-2703	a municipal
□Yes ⊠No	Within 300 feet of a wetland	
□Yes ⊠No	Within the area overlying a subsurface mine	
⊠Yes □No	Within an unstable area, yes, a high Karst are	а
□Yes ⊠No	Within a 100-year floodplain	

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

Incident Description

On September 30, 2019, a leak was found from a hole in the bottom of a 500 barrel (bbl) steel tank due to corrosion. An estimated 218 bbls of oil was released in which 208 bbls were recovered. The fluids were contained within the bermed battery containment. Lime Rock immediately placed an emergency one-call and dispatched vac trucks and roustabout crews to begin initial cleanup measures. A site map is presented in Appendix I.

Talon mobilized personnel to the site to supervise the contract companies dispatched by Lime Rock. The impacted area was excavated utilizing hand tools by roustabout crews and hydro-excavators. Because of the tanks and infrastructure, no mechanical excavation equipment was able to be utilized. Hard rock refusal was encountered and hydro-excavators were subsequently used to clean the top of the rock.

An air rotary rig was mobilized to delineate the vertical extent of the impacted area and is representative of all the affected areas. The results of our subsurface investigation are summarized in the following data table and the complete lab report is attached in Appendix V.

Soil Sampling

10-4-19 Laboratory Results

	Sample	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
Sample ID	Date	(BGS)		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NA AGED T			mg/kg	mg/kg	IIIg/Ng	mg/kg	IIIg/Ng	mg/kg	mg/ng
Annual Control of the	able 1 Closur		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
	9.15.29 NMA		115	NID	NID	48.3	25	73.3	240
S-1	10/4/2019	0-1 R	ND	ND	ND				
S-2	10/4/2019	0	0.61	ND	ND	253	72.2	325.2	2280
3-2	10/4/2019	1 R	ND	ND	ND	ND	ND	ND	768
S-3	10/4/2019	0-1 R	ND	ND	ND	ND	ND	ND	400
S-4	10/4/2019	0-1 R	ND	ND	ND	ND	ND	ND	10100
S-5	10/4/2019	0-1 R	0.411	ND	ND	29.7	16.9	46.6	384
S-6	10/4/2019	0-1 R	ND	ND	ND	ND	ND	ND	432
S-7	10/4/2019	0-1 R	0.545	ND	ND	18.4	ND	18.4	2450
S-8	10/4/2019	0-1 R	ND	ND	ND	82.8	15.2	98	288
S-9	10/4/2019	0-1 R	2.5	0.305	ND	276	99.3	375.3	432
S-10	10/4/2019	0-1 R	1.64	0.052	ND	570	259	829	256
S-11	10/4/2019	0-1 R	1.91	0.076	ND	555	299	854	144
S-12	10/4/2019	0-1 R	12.5	0.671	39.6	1120	505	1664.6	256
S-13	10/4/2019	0-1 R	2.12	0.07	ND	2750	683	3433	14800
S-14	10/4/2019	0-1 R	ND	2.65	ND	22.4	ND	22.4	928
S-15	10/4/2019	0-1 R	132	3.14	3570	5480	1640	10690	448
S-16	10/4/2019	0-1 R	1.15	ND	ND	715	440	1155	64
S-17	10/4/2019	0-1 R	53.8	3.61	225	1660	772	2657	80
S-18	10/4/2019	0-1 R	3.43	0.075	18.6	1010	443	1471.6	48

ND- Analyte Not Detected

11-21-19 Laboratory Results

		itory r to						and the second	
Sample ID	Sample	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
Sample ID	Date	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	able 1 Closur 19.15.29 NMA		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
East SW Comp	11/21/2019	1	ND	ND	ND	ND	ND	ND	576
North SW Comp	11/21/2019	1	ND	ND	ND	334	73.4	407.4	2560
West SW Comp	11/21/2019	1	ND	ND	ND	ND	ND	ND	96
South SW Comp	11/21/2019	1	ND	ND	ND	66.1	34.8	100.9	960

ND- Analyte Not Detected

1-29-20 Boring Laboratory Results

1 20 20	-20-20 Boiling Eaboratory Results								
Committee ID	Sample	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
Sample ID	Date	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	NMOCD Table 1 Closure Criteria 19.15.29 NMAC		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
B-1	1/29/2020	0-2'	ND	ND	ND	ND	ND	ND	32
D 0	4/20/2020	0-2'	ND	ND	ND	188	50.8	238.8	640
B-2	1/29/2020	4	ND	ND	ND	ND	ND	ND	80
B-3	1/29/2020	0-2'	ND	ND	ND	ND	ND	ND	80
-	4 /00 /0000	0-2'	ND	ND	ND	72	ND	72	1020
B-4	1/29/2020	4'	ND	ND	ND	ND	ND	ND	80

ND- Analyte Not Detected

2-5-20 Laboratory Results

Z-J-ZU Laborato	ry result	0					
Sample ID	Sample Date	Depth (BGS)	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Cl				100 mg/kg	600 mg/kg		
N. Sidewall Comp	2/5/2020	1.5'	ND	ND	ND	ND	64
S. Sidewall Comp	2/5/2020	1.5'					80

ND- Analyte Not Detected

See Appendix V for the complete report of laboratory results.

Received by OCD: 2/19/2020 8:07:29 AM

Remedial Actions:

- The impacted areas inside the tank battery area was excavated by hand and hydro-excavated to a depth of 2.0-feet BGS, where hard rock refusal was encountered.
- The impacted area was vertically and horizontally delineated.
- All contaminated soil was transported to Lea Land, LLC, an NMOCD approved soil waste disposal facility.
- An Initial & Final C-141 is attached in Appendix III.

Closure

On behalf of Lime Rock Resources, we respectfully request that no further actions be required at this time and that a deferral until facility closure with regard to this incident be granted. Backfilling efforts will begin as soon as permission is 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

Chris Jones
Project Manager

Attachments:

Appendix I Site Map, Karst Map, TOPO Map & Locator Map

Appendix II Soil Survey, Groundwater Data & FEMA Flood Zone

Appendix III Initial & Final C-141

Appendix IV Photographic Documentation

Appendix V Laboratory Results





APPENDIX I

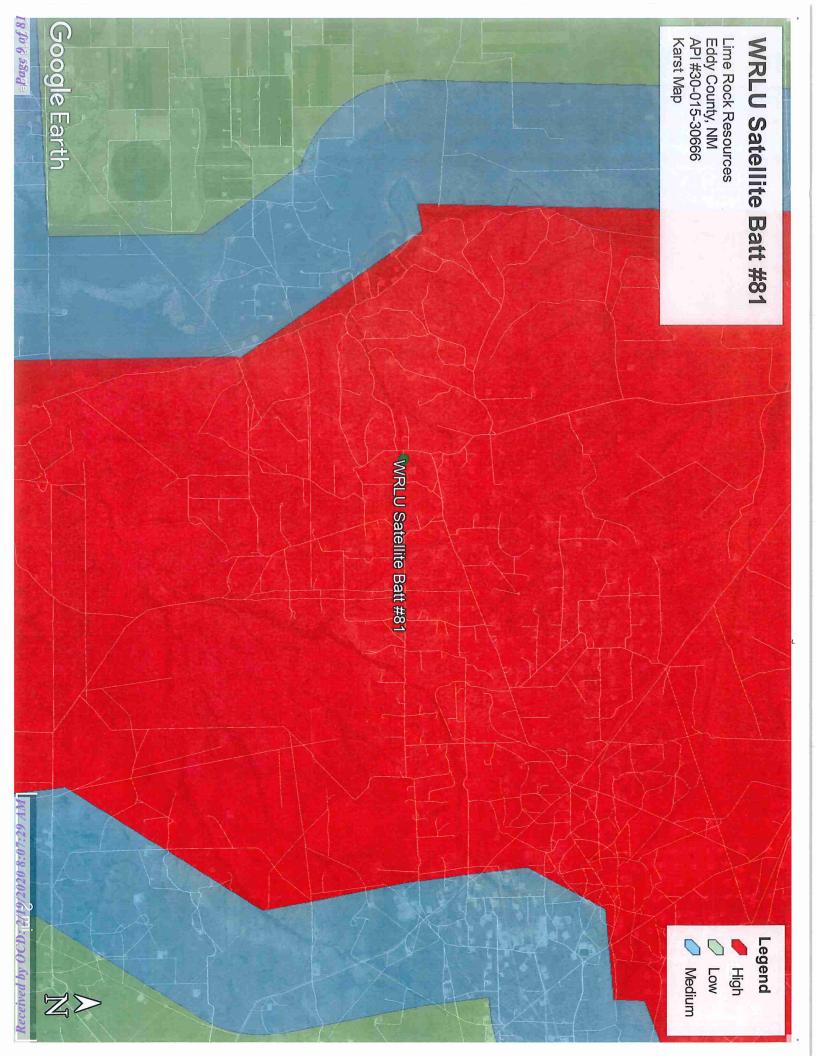
SITE MAP

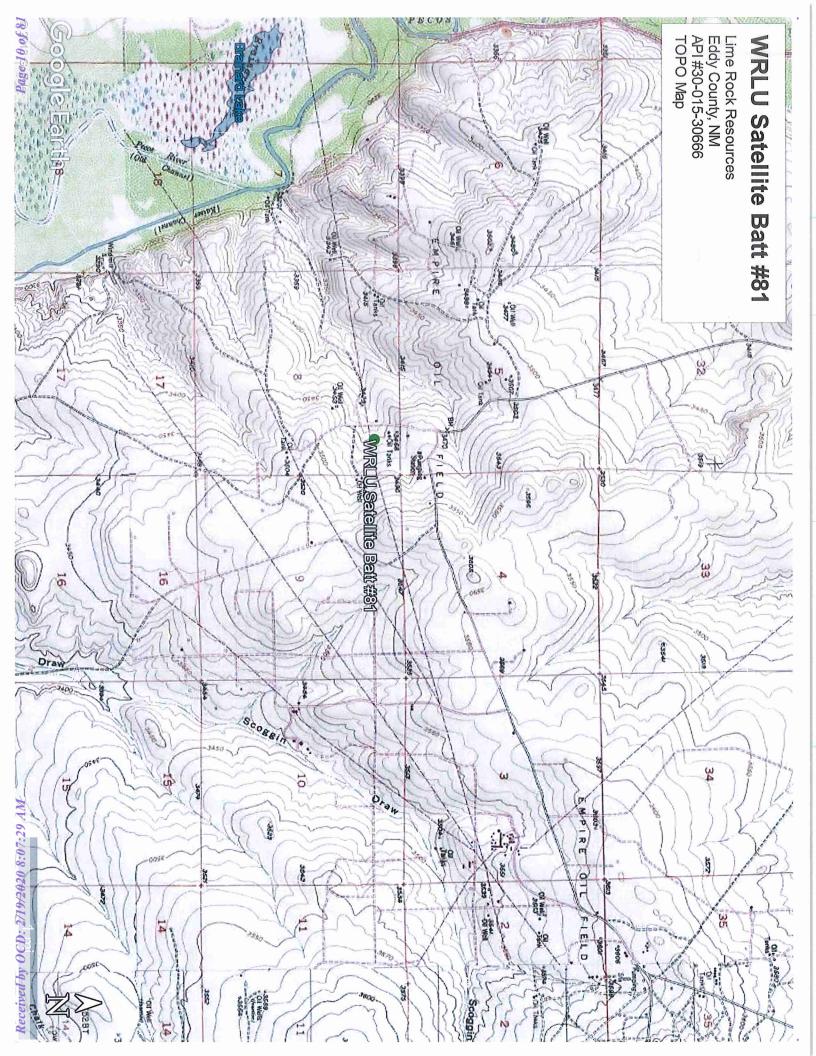
KARST MAP

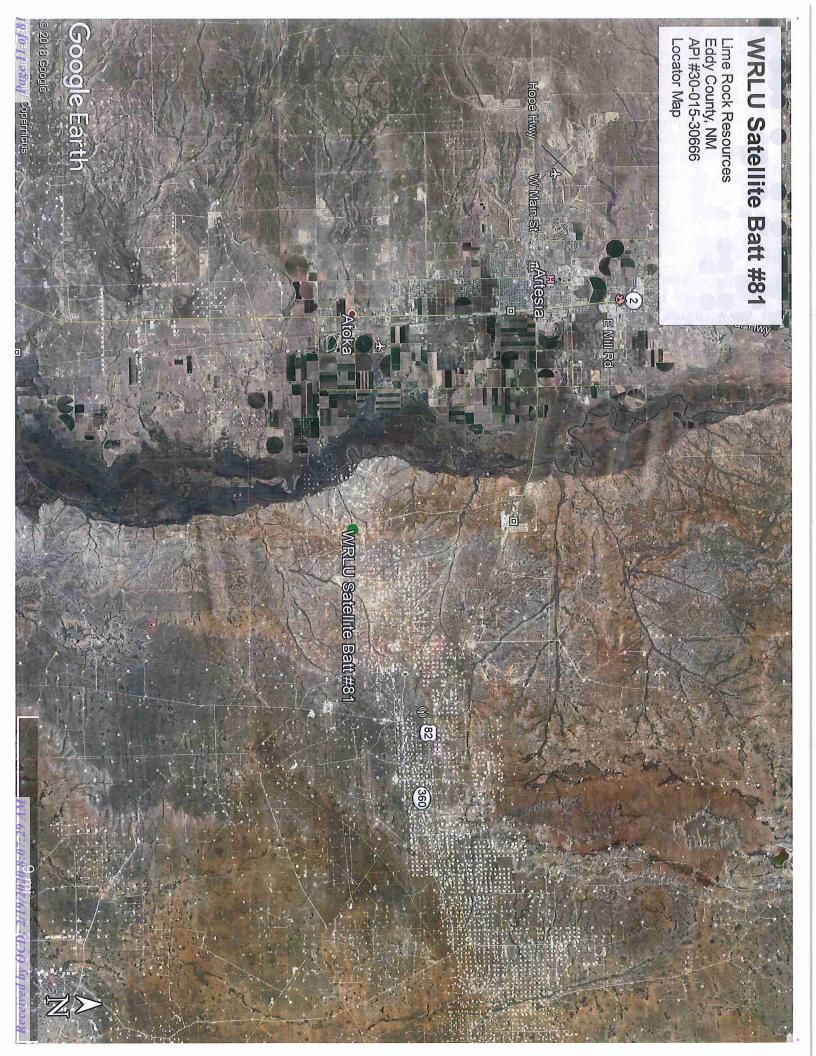
TOPO MAP

LOCATOR MAP











APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE





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-		Q	Q	Q								V	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	\mathbf{Y}	DistanceDep	thWellDep	othWater Co	olumn
RA 03714		RA	СН	4	4	2	80	18S	27E	566212	3625253*	525	381		
RA 03661		RA	ED	3	2	3	32	17S	27E	565186	3628038*	2444	330	140	190
RA 03664		RA	CH	3	2	3	32	17S	27E	565186	3628038*	2444	400	100	300
RA 03917		RA	LE	4	1	2	10	18S	27E	569019	3625660*	2960	130	50	80

Average Depth to Water:

96 feet

Minimum Depth:

50 feet

Maximum Depth:

140 feet

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 566060.541

Northing (Y): 3625755.825

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.

10/14/19 2:10 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Eddy Area, New Mexico

GA—Gypsum land

Map Unit Description: Gypsum land---Eddy Area, New Mexico

Map Unit Setting

National map unit symbol: 1w4f Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 66 degrees F

Frost-free period: 190 to 225 days

Farmland classification: Not prime farmland

Map Unit Composition

Gypsum land: 98 percent Minor components: 2 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Gypsum Land

Setting

Landform: Plains, ridges, hills

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

Landform position (three-dimensional): Side slope, crest, nose

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Minor Components

Reeves

Percent of map unit: 1 percent

Ecological site: Salty Bottomland (R042XC033NM)

Hydric soil rating: No

Cottonwood

Percent of map unit: 1 percent

Ecological site: Salty Bottomland (R042XC033NM)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 15, Sep 15, 2019

National Flood Hazard Layer FIRMette







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

SPECIAL FLOOD HAZARD AREAS

Regulatory Floodway With BFE or Depth Zone AE, AO, AH, VE, AR Without Base Flood Elevation (BFE)
Zone A, V, A99

0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average

areas of less than one square mile Zone. depth less than one foot or with drainag

Chance Flood Hazard Zone X Future Conditions 1% Annual

Area with Flood Risk due to Levee Zone D

OTHER AREAS OF FLOOD HAZARD

> Levee. See Notes. Zone X Area with Reduced Flood Risk due to

NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs

Area of Undetermined Flood Hazard Zone

OTHER AREAS

STRUCTURES | 1111111 Levee, Dike, or Floodwall GENERAL ----Channel, Culvert, or Storm Sewer

Water Surface Elevation Cross Sections with 1% Annual Chance Coastal Transect

Limit of Study Base Flood Elevation Line (BFE) Jurisdiction Boundary

Profile Baseline Coastal Transect Baseline

Hydrographic Feature

FEATURES

OTHER

No Digital Data Available Digital Data Available

MAP PANELS

Unmapped

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

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

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. was exported on 10/14/2019 at 4:22:34 PM and does not authoritative NFHL web services provided by FEMA. This map The flood hazard information is derived directly from the

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

Received by OCD: 2/19/2020 8:987 July Add Missa

104°17'22.17"W

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500

1,000

1,500

2,000





APPENDIX III

INITIAL C-141 & FINAL C-141

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	NAB1928853045
District RP	2RP-5671
Facility ID	
Application ID	pAB1928852581

Release Notification

BQFVH-191003-C-1410

Responsible Party

Responsible Party Lime Rock Resources	OGRID 277558
Contact Name Michael Barrett	Contact Telephone 575-365-9724
Contact email mbarrett@limerockresources.com	Incident # (assigned by OCD) NAB1928853045
Contact mailing address 1111 Bagby St Ste 4600 Houston, TX	
77002	

Location of Release Source

Latitude

32.7677155

Longitude -104.294693

(NAD 83 in decimal degrees to 5 decimal places)

Site Name West Red Lake Unit Satellite Battery WRLU #81	Site Type Production Facility
Date Release Discovered 9-30-19	API# 30-015-30666

Unit Letter	Section	Township	Range	County	
A	8	18S	27E	Eddy	

Surface Owner: State XX Federal Tribal Private (Name: Richard Gatewood)
**WELL DETAILS IS FEDERAL

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)									
Crude Oil	Volume Released 218 bbls	Volume Recovered 208 bbls							
Produced Water	Volume Released	Volume Recovered							
	Is the concentration of dissolved chloride in the	Yes No							
	produced water >10,000 mg/l?								
Condensate	Volume Released (bbls)	Volume Recovered (bbls)							
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)							
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)							

Cause of Release: On 9-30-19 at the WRLU Satellite Battery WRLU#81 a leak was found from a hole in the bottom of a 500 bbl steel tank due to corrosion. The fluids were contained within the bermed battery containment. The tank has been taken out of service until repairs are made.

Received by OCD: 2/19/2020 8:07:29 AM

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	NAB1928853045
District RP	2RP-5671
Facility ID	
Application ID	pAB1928852581

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible Volume exceeded 25 bbls	nsible party consider this a major release?	
⊠ Yes □ No			
Z 100 Z 110			
		om? When and by what means (phone, email, etc)? bert Hamlet-NMOCD, Jim Amos-BLM on 10-2-19 via email.	
	Initial Re	esponse	
The responsible p	varty must undertake the following actions immediately	vunless they could create a safety hazard that would result in injury	
☐ The source of the rele	ease has been stopped.		
☐ The impacted area has	s been secured to protect human health and	the environment.	
Released materials ha	we been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.	
All free liquids and re	ecoverable materials have been removed and	l managed appropriately.	
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:	
has begun, please attach	a narrative of actions to date. If remedial of	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.	
I hereby certify that the infor	mation given above is true and complete to the	pest of my knowledge and understand that pursuant to OCD rules and	
regulations all operators are	required to report and/or file certain release notif	ications 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 and/or regulations.	a C-141 report does not relieve the operator of a	responsibility for compliance with any other federal, state, or local laws	
		Title Production Committee Land	
Printed Name: Mike Barr	ett	Title: Production Superintendent	
Signature:		Date: 10-219	
email: mbarrett@limerocl	kresources.com	Telephone: 575-365-9724	
OCD Only			
	malia Bustamante	10/15/2010	
Received by: A	IIIalia Dustallialite	Date:10/15/2019	

Incident ID	nAB1928853045
	11AB 1320033043
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	96(ft bgs)			
Did this release impact groundwater or surface water?				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?				
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying a subsurface mine?				
Are the lateral extents of the release overlying an unstable area such as karst geology?	⊠ Yes ⊠ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information 				
 ☒ Topographic/Aerial maps ☒ Laboratory data including chain of custody 				

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Incident ID	nAB1928853045
District RP	
Facility ID	
Application ID	

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: Mike Barrett	Title: Production Superintendent			
Signature: March Son Date: 2-14-20				
email: mbarrett@limerockresources.com Telephone: 575-365-9724				
OCD Only				
Received by:Cristina Eads	Date: 03/25/2020			

Incident ID	nAB1928853045	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
□ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
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: Mike Barrett / Title: Production Superintendent
Signature: Date: Z-121-20
email: mbarrett@limerockresources.com Telephone: 575-365-9724
OCD Only
Received by: Date:
Approved Approved with Attached Conditions of Approval Denied Deferral Approved
Signature: Date:

Incident ID	nAB1928853045
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following	g items must be included in the closure report.		
A scaled site and sampling diagram as described in 19.15.29	9.11 NMAC		
Photographs of the remediated site prior to backfill or photomust be notified 2 days prior to liner inspection)	os of the liner integrity if applicable (Note: appropriate OCD District office		
☐ Laboratory analyses of final sampling (Note: appropriate Ol	DC District office must be notified 2 days prior to final sampling)		
□ Description of remediation activities			
and regulations all operators are required to report and/or file cert may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regu	collete to the best of my knowledge and understand that pursuant to OCD rules tain release notifications and perform corrective actions for releases which of a C-141 report by the OCD does not relieve the operator of liability remediate contamination that pose a threat to groundwater, surface water, of a C-141 report does not relieve the operator of responsibility for ulations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in a OCD when reclamation and re-vegetation are complete. Title: Production Superintendent Date: Telephone: 575-365-9724		
OCD Only			
Received by: _ Cristina Eads	Date: 03/25/2020		
	ty of liability should their operations have failed to adequately investigate and be water, human health, or the environment nor does not relieve the responsible d/or regulations.		
Closure Approved by:	Date: 03/25/2020		
Printed Name: Cristina Eads	Printed Name: Cristina Eads Title: Environmental Specialist		

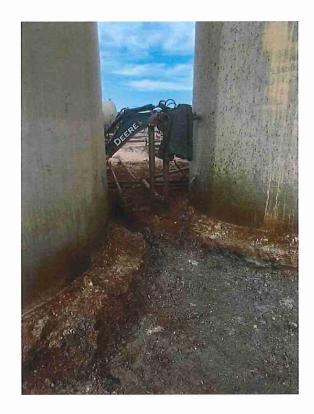


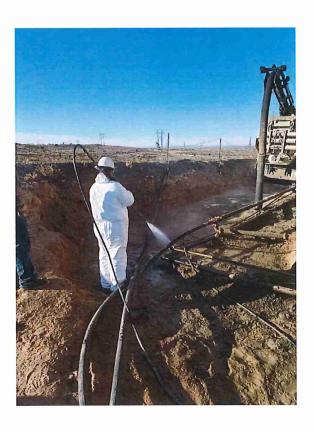
APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

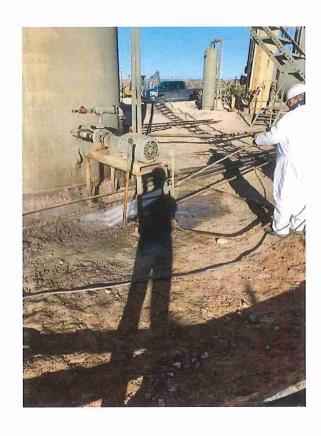
WRLU #81 Excavation Pics

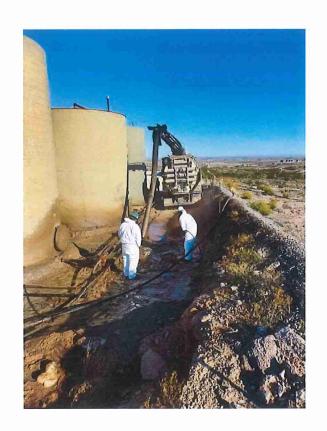










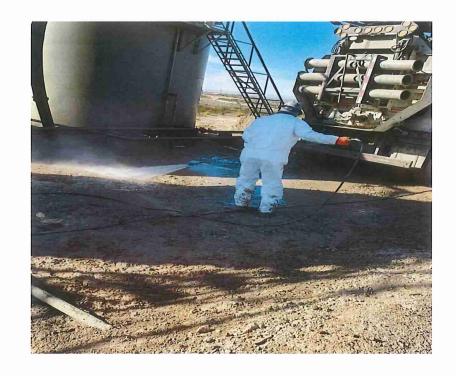




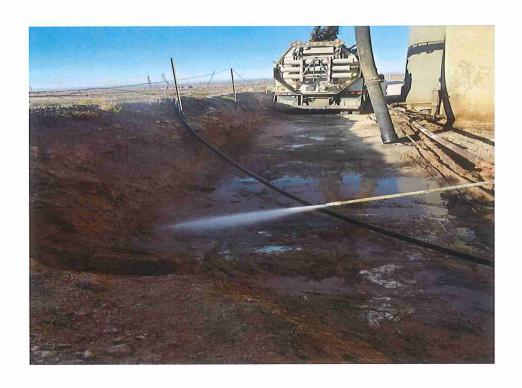








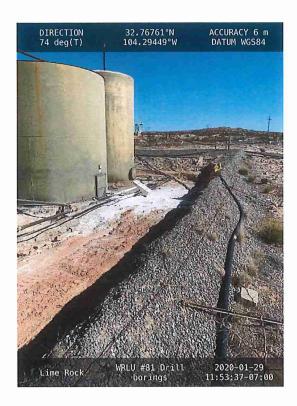




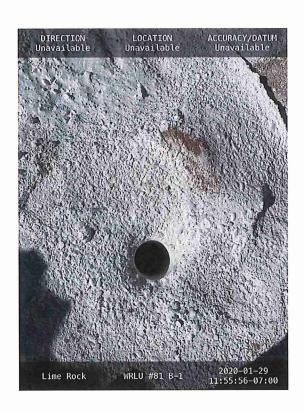




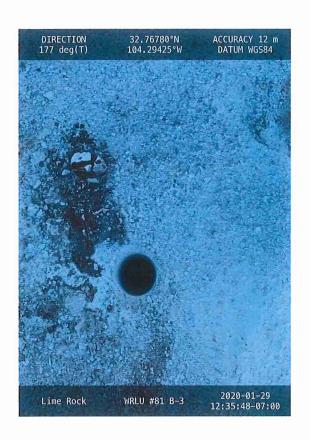
Boring Samples

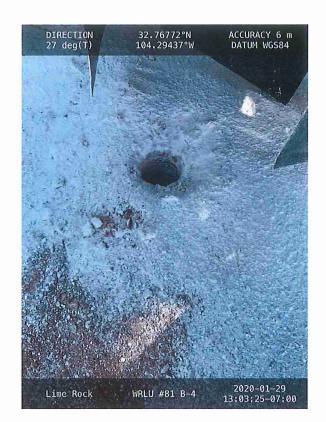














APPENDIX V

LABORATORY DATA



February 18, 2020

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST RED LAKE UNIT #081 A

Enclosed are the results of analyses for samples received by the laboratory on 10/07/19 14:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Celey D. Keene

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



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

Project Number: 701307.126.01
Project Manager: CHRIS JONES

Fax To: (575) 745-8905

Reported:

18-Feb-20 08:47

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S - 1 0-1' R	H903403-04	Soil	04-Oct-19 10:20	07-Oct-19 14:38
S - 2 0-1'	H903403-05	Soil	04-Oct-19 10:30	07-Oct-19 14:38
S-2 1' R	H903403-06	Soil	04-Oct-19 10:40	07-Oct-19 14:38
S-3 0-1' R	H903403-07	Soil	04-Oct-19 10:45	07-Oct-19 14:38
S - 4 0-1' R	H903403-08	Soil	04-Oct-19 10:55	07-Oct-19 14:38
S-5 0-1' R	H903403-09	Soil	04-Oct-19 11:05	07-Oct-19 14:38
S-6 0-1' R	H903403-10	Soil	04-Oct-19 11:15	07-Oct-19 14:38
S - 7 0-1' R	H903403-11	Soil	04-Oct-19 11:20	07-Oct-19 14:38
S-8 0-1' R	H903403-12	Soil	04-Oct-19 11:30	07-Oct-19 14:38
S-9 0-1' R	H903403-13	Soil	04-Oct-19 11:40	07-Oct-19 14:38
S - 10 0-1' R	H903403-14	Soil	04-Oct-19 11:45	07-Oct-19 14:38
S - 11	H903403-15	Soil	04-Oct-19 11:55	07-Oct-19 14:38
S - 12	H903403-16	Soil	04-Oct-19 12:00	07-Oct-19 14:38
S - 13 0-1' R	H903403-17	Soil	04-Oct-19 12:10	07-Oct-19 14:38
S - 14 0-1' R	H903403-18	Soil	04-Oct-19 12:20	07-Oct-19 14:38
S - 15	H903403-19	Soil	04-Oct-19 12:30	07-Oct-19 14:38
S - 16 0-1' R	H903403-20	Soil	04-Oct-19 12:40	07-Oct-19 14:38
S - 17 0-1' R	H903403-21	Soil	04-Oct-19 12:50	07-Oct-19 14:38
S - 18 0-1' R	H903403-22	Soil	04-Oct-19 13:00	07-Oct-19 14:38

02/17/20 - Client removed the BG samples from the report.

02/18/20 - This is the revised report and will replace the one sent on 10/08/19.

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keena



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

Project Number: 701307.126.01

Project Manager: CHRIS JONES Fax To: (575) 745-8905 Reported:

18-Feb-20 08:47

S - 1 0-1' R H903403-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	240		16.0	mg/kg	4	9100812	AC	08-Oct-19	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		84.5 %	73.3-129		9100801	BF	08-Oct-19	8021B		
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9100713	MS	07-Oct-19	8015B	
DRO >C10-C28*	48.3		10.0	mg/kg	1	9100713	MS	07-Oct-19	8015B	
EXT DRO >C28-C36	25.0		10.0	mg/kg	1	9100713	MS	07-Oct-19	8015B	
Surrogate: 1-Chlorooctane			86.9 %	41-	142	9100713	MS	07-Oct-19	8015B	
Surrogate: 1-Chlorooctadecane			96.4 %	37.6	-147	9100713	MS	07-Oct-19	8015B	

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Celey & Keene



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

Project Number: 701307.126.01

Reported: 18-Feb-20 08:47

Project Manager: CHRIS JONES Fax To: (575) 745-8905

> S-2 0-1' H903403-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	2280		16.0	mg/kg	4	9100812	AC	08-Oct-19	4500-CI-B	
Volatile Organic Compounds h	oy EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Toluene*	0.103		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Ethylbenzene*	0.180		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total Xylenes*	0.328		0.150	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total BTEX	0.610		0.300	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			85.9 %	73.3-129		9100801	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	i	9100713	MS	07-Oct-19	8015B	
DRO >C10-C28*	253		10.0	mg/kg	1	9100713	MS	07-Oct-19	8015B	
EXT DRO >C28-C36	72.2		10.0	mg/kg	I	9100713	MS	07-Oct-19	8015B	
Surrogate: 1-Chlorooctane			83.7 %	41-	142	9100713	MS	07-Oct-19	8015B	
Surrogate: 1-Chlorooctadecane			103 %	37.6	-147	9100713	MS	07-Oc1-19	8015B	

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Celeg Streen



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

Project Number: 701307.126.01 Project Manager: CHRIS JONES

Fax To: (575) 745-8905

Reported: 18-Feb-20 08:47

S-2 1' R

H903403-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										05 10 0 15
Chloride	768		16.0	mg/kg	4	9100812	AC	08-Oct-19	4500-CI-B	
Volatile Organic Compounds l	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		82.5 %	73.3-129		9100801	BF	08-Oci-19	8021B		
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	l	9100713	MS	07-Oct-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9100713	MS	07-Oct-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9100713	MS	07-Oct-19	8015B	
Surrogate: 1-Chlorooctane			88.6 %	41-	142	9100713	MS	07-Oct-19	8015B	
Surrogate: 1-Chlorooctadecane			92.7 %	37.6	-147	9100713	MS	07-Oct-19	8015B	

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Celly & Kene



Analytical Results For:

TALON LPE

Project: WEST RED LAKE UNIT #081 A

Reported:

408 W. TEXAS AVE. ARTESIA NM, 88210 Project Number: 701307.126.01 Project Manager: CHRIS JONES 18-Feb-20 08:47

Fax To: (575) 745-8905

S - 3 0-1' R H903403-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	400		16.0	mg/kg	4	9100812	AC	08-Oct-19	4500-CI-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Ethylbenzene*	0.094		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (Pa	D)		82.1 %	73.3	-129	9100801	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctane			81.6 %	41-	142	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctadecane			86.3 %	37.6	-147	9100713	MS	08-Oct-19	8015B	

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Celey D. Keens



Analytical Results For:

TALON LPE

Reported:

408 W. TEXAS AVE.

Project Number: 701307.126.01

Project: WEST RED LAKE UNIT #081 A

18-Feb-20 08:47

ARTESIA NM, 88210

Project Manager: CHRIS JONES

Fax To: (575) 745-8905

S-4 0-1' R H903403-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	10100		16.0	mg/kg	4	9100812	AC	08-Oct-19	4500-CI-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		83.8 %	73.3	-129	9100801	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctane			85.1 %	41-	142	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctadecane			89.6 %	37.6	-147	9100713	MS	08-Oct-19	8015B	

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Celeg & Kena



Reported:

18-Feb-20 08:47

Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

Project Number: 701307.126.01 Project Manager: CHRIS JONES

Fax To: (575) 745-8905

S - 5 0-1' R H903403-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	384		16.0	mg/kg	4	9100812	AC	08-Oct-19	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Toluene*	0.074		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Ethylbenzene*	0.127		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total Xylenes*	0.210		0.150	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total BTEX	0.411		0.300	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		82.7 %	73.3	-129	9100801	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons by C	GC FID									******
GRO C6-C10*	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
DRO >C10-C28*	29.7		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
EXT DRO >C28-C36	16.9		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctane			84.3 %	41-	142	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctadecane			93.7 %	37.6	-147	9100713	MS	08-Oc1-19	8015B	

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Celeg D. Keene



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

Project Number: 701307.126.01

Project Manager: CHRIS JONES

Fax To: (575) 745-8905

Reported: 18-Feb-20 08:47

S-6 0-1' R

H903403-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	432		16.0	mg/kg	4	9100812	AC	08-Oct-19	4500-CI-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Ethylbenzene*	0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	[D)		79.6 %	73.3	-129	9100801	BF	08-Oci-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctane			86.3 %	41-	142	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctadecane			89.1 %	37.6	-147	9100713	MS	08-Oc1-19	8015B	

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Celeg & Kena



Reported:

18-Feb-20 08:47

Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

Project Number: 701307.126.01
Project Manager: CHRIS JONES

Fax To: (575) 745-8905

S - 7 0-1' R H903403-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	2450		16.0	mg/kg	4	9100812	AC	08-Oct-19	4500-CI-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Toluene*	0.098		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Ethylbenzene*	0.098		0.050	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total Xylenes*	0.349		0.150	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Total BTEX	0.545		0.300	mg/kg	50	9100801	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			85.6 %	73.3	-129	9100801	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons by GO	CFID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
DRO >C10-C28*	18.4		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctane			84.7 %	41	142	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctadecane			88.4 %	37.6	-147	9100713	MS	08-Oct-19	8015B	

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Celey D. Keene



Analytical Results For:

TALON LPE

Project: WEST RED LAKE UNIT #081 A

Reported:

408 W. TEXAS AVE. ARTESIA NM, 88210 Project Number: 701307.126.01

18-Feb-20 08:47

Project Manager: CHRIS JONES

Fax To: (575) 745-8905

S - 8 0-1' R H903403-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	288		16.0	mg/kg	4	9100812	AC	08-Oct-19	4500-CI-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		102 %	73.3	-129	9100802	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
DRO >C10-C28*	82.8		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
EXT DRO > C28-C36	15.2		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctane			86.9 %	41-	142	9100713	MS	08-Oc1-19	8015B	
Surrogate: 1-Chlorooctadecane			94.5 %	37.6	-147	9100713	MS	08-Oc1-19	8015B	

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Celley D. Keine



Reported:

18-Feb-20 08:47

Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

Project Number: 701307.126.01 Project Manager: CHRIS JONES

Fax To: (575) 745-8905

(3/3) /43-8903

S - 9 0-1' R H903403-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds									,	
Chloride	432		16.0	mg/kg	4	9100812	AC	08-Oct-19	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								S-04
Benzene*	0.305		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Toluene*	0.206		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Ethylbenzene*	0.471		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total Xylenes*	1.52		0.150	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total BTEX	2.50		0.300	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		147 %	73.3	-129	9100802	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
DRO >C10-C28*	276		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
EXT DRO >C28-C36	99.3		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctane			87.5 %	41-	142	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctadecane			102 %	37.6	-147	9100713	MS	08-Oc1-19	8015B	

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Celey D. Keene



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

Project Number: 701307.126.01

Project Manager: CHRIS JONES Fax To: (575) 745-8905 Reported: 18-Feb-20 08:47

10 1 00 20 00. 11

S - 10 0-1' R H903403-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	256		16.0	mg/kg	4	9100812	AC	08-Oct-19	4500-CI-B	
Volatile Organic Compounds	by EPA Method	8021					.,			
Benzene*	0.052		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Toluene*	0.207		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Ethylbenzene*	0.477		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total Xylenes*	0.908		0.150	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total BTEX	1.64		0.300	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		108 %	73.3	-129	9100802	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons by	GC FID		****							
GRO C6-C10*	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
DRO >C10-C28*	570		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
EXT DRO >C28-C36	259		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctane			89.0 %	41-	142	9100713	MS	08-Oc1-19	8015B	
Surrogate: 1-Chlorooctadecane			128 %	37.6	-147	9100713	MS	08-Oct-19	8015B	

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Celeg D. Keene



Reported:

18-Feb-20 08:47

Analytical Results For:

TALON LPE

408 W. TEXAS AVE.

ARTESIA NM, 88210

Project: WEST RED LAKE UNIT #081 A

Project Number: 701307.126.01

Project Manager: CHRIS JONES

Fax To: (575) 745-8905

S - 11 0-1' R H903403-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	144		16.0	mg/kg	4	9100812	AC	08-Oct-19	4500-CI-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	0.076		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Toluene*	0.381		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Ethylbenzene*	0.494		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total Xylenes*	0.959		0.150	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total BTEX	1.91		0.300	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	73.3	-129	9100802	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
DRO >C10-C28*	555		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
EXT DRO >C28-C36	299		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctane			87.7 %	41-	142	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctadecane			123 %	37.6	-147	9100713	MS	08-Oct-19	8015B	

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Clay & Kenne



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

Project Number: 701307.126.01 Project Manager: CHRIS JONES

Fax To: (575) 745-8905

Reported: 18-Feb-20 08:47

S - 12 0-1' R

H903403-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin:	al Laborat	ories					
Inorganic Compounds										
Chloride	256		16.0	mg/kg	4	9100812	AC	08-Oct-19	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	0.671		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Toluene*	3.31		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Ethylbenzene*	3,12		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total Xylenes*	5.38		0.150	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total BTEX	12.5		0.300	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			112 %	73.3	-129	9100802	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	39,6		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
DRO >C10-C28*	1120		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
EXT DRO >C28-C36	505		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctane			92.6 %	41-	142	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctadecane			131 %	37.6	-147	9100713	MS	08-Oc1-19	8015B	

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Reported:

18-Feb-20 08:47

Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

9100713

9100713

9100713

MS

MS

MS

08-Oct-19

08-Oct-19

08-Oct-19

8015B

8015B

8015B

Project Number: 701307.126.01
Project Manager: CHRIS JONES

Fax To: (575) 745-8905

S - 13 0-1' R H903403-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds								·		
Chloride	14800		16.0	mg/kg	4	9100812	AC	08-Oct-19	4500-CI-B	
Volatile Organic Compounds	by EPA Method	8021								S-04
Benzene*	0.070		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Toluene*	0.685		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total Xylenes*	1.36		0.150	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total BTEX	2.12		0.300	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		315 %	73.3	-129	9100802	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons by C	GC FID									S-06
GRO C6-C10*	<50.0		50.0	mg/kg	5	9100713	MS	08-Oct-19	8015B	
DRO >C10-C28*	2750		50.0	mg/kg	5	9100713	MS	08-Oct-19	8015B	

mg/kg

41-142

37.6-147

50.0

99.7%

178 %

683

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EXT DRO > C28-C36

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Reported:

18-Feb-20 08:47

Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

Project Number: 701307.126.01

Project Manager: CHRIS JONES

Fax To: (575) 745-8905

S - 14 0-1' R H903403-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	928		16.0	mg/kg	4	9100812	AC	08-Oct-19	4500-CI-B	
Volatile Organic Compounds	by EPA Method	8021								S-04
Benzene*	< 0.050		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Toluene*	0.061		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Ethylbenzene*	0.078		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total Xylenes*	2.51		0.150	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total BTEX	2.65		0.300	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	0)		138 %	73.3	-129	9100802	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	i	9100713	MS	08-Oct-19	8015B	
DRO >C10-C28*	22.4		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctane			88.8 %	41-	142	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctadecane			92.8 %	37.6	-147	9100713	MS	08-Oct-19	8015B	

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Celeg D. Keena



Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

Project Number: 701307.126.01 Project Manager: CHRIS JONES

Fax To: (575) 745-8905

Reported: 18-Feb-20 08:47

S - 15 0-1' R

H903403-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds								· · · · · · · · · · · · · · · · · · ·		
Chloride	448		16.0	mg/kg	4	9100813	AC	08-Oct-19	4500-CI-B	
Volatile Organic Compound	ds by EPA Method	8021								S-04
Benzene*	3.14		1.00	mg/kg	1000	9100802	BF	08-Oct-19	8021B	
Toluene*	14.2		1.00	mg/kg	1000	9100802	BF	08-Oct-19	8021B	
Ethylbenzene*	39.2		1.00	mg/kg	1000	9100802	BF	08-Oct-19	8021B	
Total Xylenes*	75.7		3.00	mg/kg	1000	9100802	BF	08-Oct-19	8021B	
Total BTEX	132		6.00	mg/kg	1000	9100802	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (I	PID)		147 %	73.3	-129	9100802	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons b	y GC FID									S-06
GRO C6-C10*	3570		50.0	mg/kg	5	9100713	MS	08-Oct-19	8015B	
DRO >C10-C28*	5480		50.0	mg/kg	5	9100713	MS	08-Oct-19	8015B	
EXT DRO >C28-C36	1640		50.0	mg/kg	5	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctane			242 %	41-	142	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctadecane			204 %	37.6	-147	9100713	MS	08-Oc1-19	8015B	

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Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

Reported:

Project Number: 701307.126.01

Project Manager: CHRIS JONES

18-Feb-20 08:47

Fax To: (575) 745-8905

S-16 0-1' R

H903403-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	9100813	AC	08-Oct-19	4500-Cl-B	
Volatile Organic Compounds b	oy EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Toluene*	0.056		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Ethylbenzene*	0.254		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total Xylenes*	0.838		0.150	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total BTEX	1.15		0.300	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	•		104 %	73.3	-129	9100802	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
DRO >C10-C28*	715		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
EXT DRO >C28-C36	440		10.0	mg/kg	1	9100713	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctane			88.0 %	41-	142	9100713	MS	08-Oc1-19	8015B	
Surrogate: 1-Chlorooctadecane			134 %	37.6	-147	9100713	MS	08-Oct-19	8015B	

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Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

Project Number: 701307.126.01 Project Manager: CHRIS JONES

Fax To: (575) 745-8905

Reported: 18-Feb-20 08:47

S-17 0-1' R H903403-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	9100813	AC	08-Oct-19	4500-CI-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	3.61		1.00	mg/kg	1000	9100802	BF	08-Oct-19	8021B	
Toluene*	15.4		1.00	mg/kg	1000	9100802	BF	08-Oct-19	8021B	
Ethylbenzene*	12.3		1.00	mg/kg	1000	9100802	BF	08-Oct-19	8021B	
Total Xylenes*	22.5		3.00	mg/kg	1000	9100802	BF	08-Oct-19	8021B	
Total BTEX	53.8		6.00	mg/kg	1000	9100802	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			108 %	73.3	-129	9100802	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	225		10.0	mg/kg	1	9100709	MS	08-Oct-19	8015B	
DRO >C10-C28*	1660		10.0	mg/kg	1	9100709	MS	08-Oct-19	8015B	
EXT DRO >C28-C36	772		10.0	mg/kg	1	9100709	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctane			90.4 %	41-	142	9100709	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctadecane			118 %	37.6	-147	9100709	MS	08-Oct-19	8015B	

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Reported:

18-Feb-20 08:47

Analytical Results For:

TALON LPE

408 W. TEXAS AVE. ARTESIA NM, 88210 Project: WEST RED LAKE UNIT #081 A

Project Number: 701307.126.01
Project Manager: CHRIS JONES

Fax To: (575) 745-8905

S - 18 0-1' R H903403-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	9100813	AC	08-Oct-19	4500-CI-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	0.075		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Toluene*	0.242		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Ethylbenzene*	0.870		0.050	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total Xylenes*	2.25		0.150	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Total BTEX	3.43		0.300	mg/kg	50	9100802	BF	08-Oct-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		123 %	73.3	-129	9100802	BF	08-Oct-19	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	18.6		10.0	mg/kg	1	9100709	MS	08-Oct-19	8015B	
DRO >C10-C28*	1010		10.0	mg/kg	1	9100709	MS	08-Oct-19	8015B	
EXT DRO >C28-C36	443		10.0	mg/kg	1	9100709	MS	08-Oct-19	8015B	
Surrogate: I-Chlorooctane			88.7 %	41-	142	9100709	MS	08-Oct-19	8015B	
Surrogate: 1-Chlorooctadecane			111 %	37.6	-147	9100709	MS	08-Oct-19	8015B	

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Analytical Results For:

TALON LPE

Project: WEST RED LAKE UNIT #081 A

Reported:

408 W. TEXAS AVE.

Project Number: 701307.126.01 Project Manager: CHRIS JONES 18-Feb-20 08:47

ARTESIA NM, 88210

Fax To: (575) 745-8905

Inorganic Compounds - Quality Control

Cardinal Laboratories

5 L						%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared &	: Analyzed:	08-Oct-19				
ND	16.0	mg/kg							
			Prepared &	: Analyzed:	08-Oct-19				
416	16.0	mg/kg	400		104	80-120			
			Prepared &	: Analyzed:	08-Oct-19				
416	16.0	mg/kg	400		104	80-120	0.00	20	
			Prepared &	: Analyzed:	08-Oct-19				
ND	16.0	mg/kg							
			Prepared &	: Analyzed:	08-Oct-19				
416	16.0	mg/kg	400		104	80-120			
			Prepared &	: Analyzed:	08-Oct-19				
416	16.0	mg/kg	400		104	80-120	0.00	20	
	ND 416 ND 416	ND 16.0 416 16.0 ND 16.0 ND 16.0 16.0	ND 16.0 mg/kg 416 16.0 mg/kg 416 16.0 mg/kg ND 16.0 mg/kg 416 16.0 mg/kg	Prepared & ND 16.0 mg/kg Prepared & 416 16.0 mg/kg 400 Prepared & 416 16.0 mg/kg 400 Prepared & 400 Prepared & 400 Prepared & 400 Prepared & 400	Prepared & Analyzed: ND 16.0 mg/kg Prepared & Analyzed: 416 16.0 mg/kg 400 Prepared & Analyzed: 416 16.0 mg/kg 400 Prepared & Analyzed: ND 16.0 mg/kg Prepared & Analyzed: ND 16.0 mg/kg Prepared & Analyzed: 416 16.0 mg/kg 400 Prepared & Analyzed:	Prepared & Analyzed: 08-Oct-19 ND 16.0 mg/kg Prepared & Analyzed: 08-Oct-19 416 16.0 mg/kg 400 104 Prepared & Analyzed: 08-Oct-19 416 16.0 mg/kg 400 104 Prepared & Analyzed: 08-Oct-19 ND 16.0 mg/kg Prepared & Analyzed: 08-Oct-19 416 16.0 mg/kg 400 104 Prepared & Analyzed: 08-Oct-19 416 16.0 mg/kg 400 104 Prepared & Analyzed: 08-Oct-19	Prepared & Analyzed: 08-Oct-19 ND 16.0 mg/kg Prepared & Analyzed: 08-Oct-19 416 16.0 mg/kg 400 104 80-120 Prepared & Analyzed: 08-Oct-19 416 16.0 mg/kg 400 104 80-120 Prepared & Analyzed: 08-Oct-19 ND 16.0 mg/kg Prepared & Analyzed: 08-Oct-19 416 16.0 mg/kg 400 104 80-120 Prepared & Analyzed: 08-Oct-19 416 16.0 mg/kg 400 104 80-120 Prepared & Analyzed: 08-Oct-19	Prepared & Analyzed: 08-Oct-19 ND 16.0 mg/kg Prepared & Analyzed: 08-Oct-19 416 16.0 mg/kg 400 104 80-120 Prepared & Analyzed: 08-Oct-19 416 16.0 mg/kg 400 104 80-120 0.00 Prepared & Analyzed: 08-Oct-19 ND 16.0 mg/kg Prepared & Analyzed: 08-Oct-19 416 16.0 mg/kg 400 104 80-120 Prepared & Analyzed: 08-Oct-19	Prepared & Analyzed: 08-Oct-19 ND 16.0 mg/kg Prepared & Analyzed: 08-Oct-19 416 16.0 mg/kg 400 104 80-120 Prepared & Analyzed: 08-Oct-19 416 16.0 mg/kg 400 104 80-120 0.00 20 Prepared & Analyzed: 08-Oct-19 ND 16.0 mg/kg Prepared & Analyzed: 08-Oct-19 416 16.0 mg/kg 400 104 80-120 Prepared & Analyzed: 08-Oct-19 416 16.0 mg/kg 400 104 80-120 Prepared & Analyzed: 08-Oct-19

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Celey D. Keene



Analytical Results For:

TALON LPE

Project: WEST RED LAKE UNIT #081 A

Reported:

408 W. TEXAS AVE.

Project Number: 701307.126.01 Project Manager: CHRIS JONES

18-Feb-20 08:47

ARTESIA NM, 88210

Fax To: (575) 745-8905

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9100801 - Volatiles										
Blank (9100801-BLK1)				Prepared &	z Analyzed:	08-Oct-19				
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)	0.0808		mg/kg	0.100		80.8	73.3-129			
LCS (9100801-BS1)				Prepared &	z Analyzed:	08-Oct-19				
Benzene	1.90	0.050	mg/kg	2.00		94.9	72.2-131			
Toluene	1.82	0.050	mg/kg	2.00		90.8	71.7-126			
Ethylbenzene	1.78	0.050	mg/kg	2.00		89.2	68.9-126			
Total Xylenes	5.38	0.150	mg/kg	6.00		89.6	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0731		mg/kg	0.100		73.1	73.3-129			
LCS Dup (9100801-BSD1)				Prepared &	z Analyzed:	08-Oct-19				
Benzene	1.83	0.050	mg/kg	2.00		91.4	72.2-131	3.79	6.91	
Toluene	1.80	0.050	mg/kg	2.00		89.8	71.7-126	1.11	7.12	
Ethylbenzene	1.81	0.050	mg/kg	2.00		90.5	68.9-126	1.48	7.88	
Total Xylenes	5.46	0.150	mg/kg	6.00		90.9	71.4-125	1.47	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0774		mg/kg	0.100		77.4	73.3-129			
Batch 9100802 - Volatiles										
Blank (9100802-BLK1)				Prepared &	z Analyzed:	08-Oct-19				
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)	0.0519		mg/kg	0.0500		104	73.3-129			

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Analytical Results For:

TALON LPE

Project: WEST RED LAKE UNIT #081 A

Reported:

408 W. TEXAS AVE. ARTESIA NM, 88210 Project Number: 701307.126.01

18-Feb-20 08:47

Project Manac

Project Manager: CHRIS JONES

F. T. (FIF) I.E.

Fax To: (575) 745-8905

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
Batch 9100802 - Volatiles								4		,
LCS (9100802-BS1)				Prepared &	Analyzed:	08-Oct-19				
Benzene	1.93	0.050	mg/kg	2.00		96.4	72.2-131			
Toluene	1.91	0.050	mg/kg	2.00		95.4	71.7-126			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	68.9-126			
Total Xylenes	6.04	0.150	mg/kg	6.00		101	71.4-125			
Surrogate: 4-Bromofluorobenzene (P1D)	0.0500		mg/kg	0.0500		99.9	73.3-129			
LCS Dup (9100802-BSD1)				Prepared &	: Analyzed:	08-Oct-19				
Benzene	1.94	0.050	mg/kg	2.00		97.1	72.2-131	0.742	6.91	
Toluene	1.94	0.050	mg/kg	2.00		97.1	71.7-126	1.71	7.12	
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	68.9-126	2.51	7.88	
Total Xylenes	6.17	0.150	mg/kg	6.00		103	71.4-125	2.22	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	73.3-129			

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Analytical Results For:

TALON LPE

Project: WEST RED LAKE UNIT #081 A

Reported:

408 W. TEXAS AVE.

Project Number: 701307.126.01

18-Feb-20 08:47

ARTESIA NM, 88210

Project Manager: CHRIS JONES

Fax To: (575) 745-8905

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9100709 - General Prep - Organics										
Blank (9100709-BLK1)				Prepared &	Analyzed:	07-Oct-19				
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	51.2		mg/kg	50.0		102	41-142			
Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0		105	37.6-147			
LCS (9100709-BS1)				Prepared &	: Analyzed:	07-Oct-19				
GRO C6-C10	201	10.0	mg/kg	200		101	76.5-133			
DRO >C10-C28	220	10.0	mg/kg	200		110	72.9-138			
Total TPH C6-C28	421	10.0	mg/kg	400		105	78-132			
Surrogate: 1-Chlorooctane	50.3		mg/kg	50.0		101	41-142			
Surrogate: 1-Chlorooctadecane	50.7		mg/kg	50.0		101	37.6-147			
LCS Dup (9100709-BSD1)				Prepared &	: Analyzed:	07-Oct-19				
GRO C6-C10	212	10.0	mg/kg	200		106	76.5-133	5.30	20.6	
DRO >C10-C28	237	10.0	mg/kg	200		118	72.9-138	7.33	20.6	
Total TPH C6-C28	449	10.0	mg/kg	400		112	78-132	6.37	18	
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	41-142			
Surrogate: 1-Chlorooctadecane	54.8		mg/kg	50.0		110	37.6-147			
Batch 9100713 - General Prep - Organics										
Blank (9100713-BLK1)				Prepared &	. Analyzed:	07-Oct-19				
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	49.1		mg/kg	50.0		98.2	41-142			
Surrogate: 1-Chlorooctadecane	52.3		mg/kg	50.0		105	37.6-147			

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Analytical Results For:

TALON LPE

Project: WEST RED LAKE UNIT #081 A

Reported:

408 W. TEXAS AVE. ARTESIA NM, 88210 Project Number: 701307.126.01

18-Feb-20 08:47

Project Manager: CHRIS JONES

Fax To: (575) 745-8905

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 9100713 - General Prep - Organics										
LCS (9100713-BS1)				Prepared &	: Analyzed:	07-Oct-19				
GRO C6-C10	185	10.0	mg/kg	200		92.3	76.5-133			
DRO >C10-C28	188	10.0	mg/kg	200		94.2	72.9-138			
Total TPH C6-C28	373	10.0	mg/kg	400		93.2	78-132			
Surrogate: 1-Chlorooctane	53.5		mg/kg	50.0		107	41-142			
Surrogate: 1-Chlorooctadecane	54.3		mg/kg	50.0		109	37.6-147			
LCS Dup (9100713-BSD1)				Prepared &	: Analyzed:	07-Oct-19	ı			
GRO C6-C10	214	10.0	mg/kg	200		107	76.5-133	15.0	20.6	
DRO >C10-C28	207	10.0	mg/kg	200		104	72.9-138	9.47	20.6	
Total TPH C6-C28	421	10.0	mg/kg	400		105	78-132	12.2	18	
Surrogate: 1-Chlorooctane	55.6		mg/kg	50.0		111	41-142			
Surrogate: 1-Chlorooctadecane	57.0		mg/kg	50.0		114	37.6-147			

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

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.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

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aleg D. Keens



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

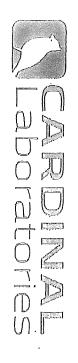
Touring INGLES. Talon LOE		
	P.O. #: 701307.126.01	11
Address: 408 W Texas Ave	Company: Talon LPE	
City: Artesia State: NM Zip: 88210	Attn: David Adkins	
Phone ※ 575-746-8768 Fax #:	Address:	
Project 9701307 126.01 Project Owners Line Rock Res	City:	
ed lake Jait HOSIA	State: Zip:	
Project Location: Eddy County	Phone \$:	•
Sampler Name: 1) Candon Sincla iv	Fax 学:	
	ESERV, SAMPLING	
GRABOR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACIDIBASE: ICE/COOL OTHER: DATE TPH EX BTEX Chlorides	
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1/5-2 1' R	04:01	
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87-40-118	10:55	
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PLEASE NOTE: Liabilly and Clamages. Cardinal's liability and clambs exclusive remady for any claim origing whether based in constant or tort, oball be limited to the amount paid by the client for the	erterl, chall be limited to the amount paid by the ellent for the	

Sampler - UPS - Bus - Other World

Delivered By: (Circle One) - P.92

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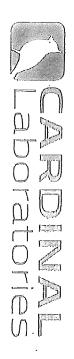
101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company waller Talon CPE			ANALYSIS I	
Project Manager: Chris Johes	P,O. 崇; 70	P.O. #: 701307-126-01	- 11	
Address: 40% W Texas Ave	Company	Company: Talon LPF		Philippin
State: N/M	Zip: 882 (O Attn: Da	Attn: David Adkins		
46-8768 Faxt #:				,
Project #: 701307, 176-01 Project Owner Lime Rock	ime Rock Res Gity:	ς		
ed Las	#081A State:	.diz:	1	-
Project Location: Eddy County	Phone 幹:			
Sampler Name: Brondon Sinilair	Fax 养	•		
	MATRIX	SAMPLING		
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Rush

Sampler - UPS - Bus - Other:

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	ING T	MATRIX	FOR LAB USE ONLY
		Brandon Sinilair	Sampier Name;
		Eddy County Phone #:	Project Location: Eddy
		lest Red Lake Unit #081A State: Zip:	Project Name: West
		2.126.01 Project Owners Lime Rock Res Gity:	Project崇701307_126.01
•		768 Fax 供 Address:	Phone # 575
	ias s	State: NAA Zip: 88210	City: Artesia
	36	Texas Avo	Address: 408 W
	5.01	Chris Jones	rioject manager;
ANALYSIS REQUEST)	1a/pn LPE - 39/18/18/19	Daniel Conference

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Sampier-UPS - Bus - Other:





November 26, 2019

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WRLU 81 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/22/19 7:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Whe South

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: Reported: 11/22/2019

11/26/2019

WRLU 81 BATTERY

Project Name: Project Number:

701307.126.01

Project Location:

LIMEROCK-EDDY CTY., NM

Sampling Date:

11/21/2019

Sampling Type:

Sampling Condition:

Cool & Intact

Soil

Sample Received By:

Jodi Henson

Sample ID: E. S.W. COMP 1' (H903967-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2019	ND	1.70	84.9	2.00	2.04	
Toluene*	<0.050	0.050	11/25/2019	ND	1.64	82.1	2.00	1.57	
Ethylbenzene*	<0.050	0.050	11/25/2019	ND	1.68	84.1	2.00	2.06	
Total Xylenes*	<0.150	0.150	11/25/2019	ND	5.10	85.0	6.00	2.61	
Total BTEX	<0.300	0.300	11/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
· Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	11/26/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2019	ND	202	101	200	3.01	
DRO >C10-C28*	<10.0	10.0	11/25/2019	ND	192	95.9	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/25/2019	ND					
Surrogate: 1-Chlorooctane	87.2 9	% 41-142							
Surrogate: 1-Chlorooctadecane	86.2 9	% 37.6-14:	7						

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Analytical Results For:

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

Received:

11/22/2019

Sampling Date:

11/21/2019

Reported:

11/26/2019

Sampling Type:

Soil

WRLU 81 BATTERY

Sampling Condition:

Cool & Intact

Project Name:

701307.126.01

Sample Received By:

Jodi Henson

Project Number:

Project Location: LIMEROCK-EDDY CTY., NM

Sample ID: N. S.W. COMP 1' (H903967-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2019	ND	1.70	84.9	2.00	2.04	
Toluene*	<0.050	0.050	11/25/2019	ND	1.64	82.1	2.00	1.57	
Ethylbenzene*	<0.050	0.050	11/25/2019	ND	1.68	84.1	2.00	2.06	
Total Xylenes*	<0.150	0.150	11/25/2019	ND	5.10	85.0	6.00	2.61	
Total BTEX	<0.300	0.300	11/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	11/26/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2019	ND	202	101	200	3.01	
DRO >C10-C28*	334	10.0	11/25/2019	ND	192	95.9	200	2.75	
EXT DRO >C28-C36	73.4	10.0	11/25/2019	ND					
Surrogate: 1-Chlorooctane	84.6	% 41-142							
Surrogate: 1-Chlorooctadecane	92.3	% 37.6-14	7						

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Analytical Results For:

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

Received:

11/22/2019

11/26/2019

Reported: Project Name:

WRLU 81 BATTERY

Project Number: Project Location: 701307.126.01

LIMEROCK-EDDY CTY., NM

Sampling Date:

11/21/2019

Sampling Type:

Sample Received By:

Sampling Condition:

Soil Cool & Intact

Jodi Henson

Sample ID: W. S.W. COMP 1' (H903967-03)

BTEX 8021B	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2019	ND	1.70	84.9	2.00	2.04	
Toluene*	<0.050	0.050	11/25/2019	ND	1.64	82.1	2.00	1.57	
Ethylbenzene*	<0.050	0.050	11/25/2019	ND	1.68	84.1	2.00	2.06	
Total Xylenes*	<0.150	0.150	11/25/2019	ND	5.10	85.0	6.00	2.61	
Total BTEX	<0.300	0.300	11/25/2019	ND			ı		
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/26/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2019	ND	202	101	200	3.01	
DRO >C10-C28*	<10.0	10.0	11/25/2019	ND	192	95.9	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/25/2019	ND					
Surrogate: 1-Chlorooctane	89.49	% 41-142							
Surrogate: 1-Chlorooctadecane	87.2 9	% 37.6-14	7						

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Analytical Results For:

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

Received:

11/22/2019

Sampling Date: Sampling Type: 11/21/2019

Reported:

11/26/2019

Soil

Project Name:

WRLU 81 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

701307.126.01

Sample Received By:

Jodi Henson

Project Location:

LIMEROCK-EDDY CTY., NM

Sample ID: S. S.W. COMP 1' (H903967-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2019	ND	1.70	84.9	2.00	2.04	
Toluene*	<0.050	0.050	11/25/2019	ND	1.64	82.1	2.00	1.57	
Ethylbenzene*	<0.050	0.050	11/25/2019	ND	1.68	84.1	2.00	2.06	
Total Xylenes*	<0.150	0.150	11/25/2019	ND	5.10	85.0	6.00	2.61	
Total BTEX	<0.300	0.300	11/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.0 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	11/26/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2019	ND	202	101	200	3.01	
DRO >C10-C28*	66.1	10.0	11/25/2019	ND	192	95.9	200	2.75	
EXT DRO >C28-C36	34.8	10.0	11/25/2019	ND					
Surrogate: 1-Chlorooctane	90.4 9	6 41-142							
Surrogate: 1-Chlorooctadecane	86.69	6 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

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101 East (Marland, Hobbs, NM 88249 (575) 393-2326 FAX (575) 393-2476

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Project Manager: CHRIS JONES	円の、歩 701 その1、121。0)	li li
Acciress: 408 W, TEXAS AUE	Company: THI ON	
Gity: ARTESIA State: NM Zip: 88210		
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Project #: 701307, 1316. 21 Project Owner: LIMEROK		
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N. S.W. COMP 1.		
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Lt S. S.W. COMP L'	12:15	

Sampler-UPS - Bus - Other: 29°

L5# 212/

Delivered By: (Circle One)

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Page 68 of 81

[†] Cardinai cannot accept verbai changes. Please fax written changes to (575) 393228



February 04, 2020

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST RED LAKE UNIT #081 A

Enclosed are the results of analyses for samples received by the laboratory on 01/31/20 13:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: Reported: 01/31/2020

02/04/2020

Project Name: Project Number:

701307.126.01

Project Location:

WEST RED LAKE UNIT #081 A

LIME ROCK-EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

Cool & Intact

01/29/2020

Soil

Tamara Oldaker

Sample ID: B - 1 0-2' (H000306-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2020	ND	1.93	96.7	2.00	0.489	
Toluene*	<0.050	0.050	02/03/2020	ND	1.92	96.1	2.00	0.242	
Ethylbenzene*	<0.050	0.050	02/03/2020	ND	1.90	95.1	2.00	0.0365	
Total Xylenes*	<0.150	0.150	02/03/2020	ND	5.60	93.3	6.00	0.182	
Total BTEX	<0.300	0.300	02/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2020	ND	226	113	200	2.81	
DRO >C10-C28*	<10.0	10.0	02/03/2020	ND	214	107	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/03/2020	ND					
Surrogate: 1-Chlorooctane	86.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	85.9	% 37.6-14	7						

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*=Accredited Analyte

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Analytical Results For:

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

Received: Reported: 01/31/2020

02/04/2020

WEST RED LAKE UNIT #081 A

Project Name: Project Number:

701307.126.01

Project Location:

LIME ROCK-EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By:

Cool & Intact

Tamara Oldaker

01/29/2020

Soil

Sample ID: B - 2 0-2' (H000306-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2020	ND	1.93	96.7	2.00	0.489	
Toluene*	<0.050	0.050	02/03/2020	ND	1.92	96.1	2.00	0.242	
Ethylbenzene*	<0.050	0.050	02/03/2020	ND	1.90	95.1	2.00	0.0365	
Total Xylenes*	<0.150	0.150	02/03/2020	ND	5.60	93.3	6.00	0.182	
Total BTEX	<0.300	0.300	02/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	02/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2020	ND	226	113	200	2.81	
DRO >C10-C28*	188	10.0	02/03/2020	ND	214	107	200	4.88	
EXT DRO >C28-C36	50.8	10.0	02/03/2020	ND					
Surrogate: 1-Chlorooctane	89.3	% 41-142							****
Surrogate: 1-Chlorooctadecane	98.4	% 37.6-14	7						

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Analytical Results For:

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

Received:

01/31/2020

Sampling Date:

01/29/2020

Reported:

02/04/2020

Sampling Type:

Soil

Project Name:

WEST RED LAKE UNIT #081 A

Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

Project Location:

701307.126.01

LIME ROCK-EDDY CO NM

Tamara Oldaker

Sample ID: B - 2 4' (H000306-	07)								
BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2020	ND	1.93	96.7	2.00	0.489	
Toluene*	<0.050	0.050	02/03/2020	ND	1.92	96.1	2.00	0.242	
Ethylbenzene*	<0.050	0.050	02/03/2020	ND	1.90	95.1	2.00	0.0365	
Total Xylenes*	<0.150	0.150	02/03/2020	ND	5.60	93.3	6.00	0.182	
Total BTEX	<0.300	0.300	02/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 :	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					

Analyzed

02/03/2020

02/03/2020

02/03/2020

Method Blank

ND

ND

ND

BS

226

214

% Recovery

113

107

True Value QC

200

200

RPD

2.81

4.88

Qualifier

EXT DRO >C28-C36	<10.0	10.0
Surrogate: 1-Chlorooctane	87.5 %	41-142
Surrogate: 1-Chlorooctadecane	86.1 %	37.6-147

Result

<10.0

<10.0

Reporting Limit

10.0

10.0

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Analyte

GRO C6-C10*

DRO >C10-C28*

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Analytical Results For:

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

Received: Reported: 01/31/2020

02/04/2020

WEST RED LAKE UNIT #081 A

Project Number: Project Location:

Project Name:

701307.126.01

LIME ROCK-EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

01/29/2020 Soil

Cool & Intact

Tamara Oldaker

Sample ID: B - 3 0-2' (H000306-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2020	ND	1.93	96.7	2.00	0.489	
Toluene*	<0.050	0.050	02/03/2020	ND	1.92	96.1	2.00	0.242	
Ethylbenzene*	<0.050	0.050	02/03/2020	ND	1.90	95.1	2.00	0.0365	
Total Xylenes*	<0.150	0.150	02/03/2020	ND	5.60	93.3	6.00	0.182	
Total BTEX	<0.300	0.300	02/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	R₽D	Qualifier
Chloride	80.0	16.0	02/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2020	ND	226	113	200	2.81	
DRO >C10-C28*	<10.0	10.0	02/03/2020	ND	214	107	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/03/2020	ND					
Surrogate: 1-Chlorooctane	88.1	% 41-142							
Surrogate: 1-Chlorooctadecane	84.7	% 37.6-14	7						

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Analytical Results For:

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

Received:

01/31/2020

01/31/2020

Sampling Date:

01/29/2020

Reported:

02/04/2020

Sampling Type:

Soil

Project Name:

WEST RED LAKE UNIT #081 A

Sampling Condition:

Cool & Intact

Project Number:

701307.126.01

Sample Received By:

Tamara Oldaker

Project Location:

LIME ROCK-EDDY CO NM

LIME ROCK-EDDT CO IVIVI

Sample ID: B - 4 0-2' (H000306-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS				4	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2020	ND	1.93	96.7	2.00	0.489	
Toluene*	<0.050	0.050	02/03/2020	ND	1.92	96.1	2.00	0.242	
Ethylbenzene*	<0.050	0.050	02/03/2020	ND	1.90	95.1	2.00	0.0365	
Total Xylenes*	<0.150	0.150	02/03/2020	ND	5.60	93.3	6.00	0.182	
Total BTEX	<0.300	0.300	02/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	02/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2020	ND	226	113	200	2.81	
DRO >C10-C28*	72.0	10.0	02/03/2020	ND	214	107	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/03/2020	ND					
Surrogate: 1-Chlorooctane	83.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	85.4	% 37.6-14	7						

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Analytical Results For:

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

Received:

01/31/2020

Reported:

02/04/2020

Project Name: Project Number: WEST RED LAKE UNIT #081 A

Project Location:

701307.126.01

LIME ROCK-EDDY CO NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

01/29/2020 Soil

Cool & Intact

Tamara Oldaker

Sample ID: B - 4 4' (H000306-17)

BTEX 8021B	mg/	kg	Analyze	By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2020	ND	1.93	96.7	2.00	0.489	
Toluene*	<0.050	0.050	02/03/2020	ND	1.92	96.1	2.00	0.242	
Ethylbenzene*	<0.050	0.050	02/03/2020	ND	1.90	95.1	2.00	0.0365	
Total Xylenes*	<0,150	0.150	02/03/2020	ND	5.60	93.3	6.00	0.182	
Total BTEX	<0.300	0.300	02/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	i By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
·	Result 80.0	Reporting Limit	Analyzed 02/03/2020	Method Blank ND	BS 432	% Recovery	True Value QC 400	0.00	Qualifier
Chloride		16.0	02/03/2020			•			Qualifier
Chloride	80.0	16.0	02/03/2020	ND		•			Qualifier Qualifier
Chloride TPH 8015M Analyte	80.0 mg/	16.0 kg	02/03/2020 Analyze	ND d By: MS	432	108	400	0.00	
Chloride TPH 8015M Analyte GRO C6-C10*	80.0 mg/ Result	16.0 kg Reporting Limit	02/03/2020 Analyze Analyzed	ND d By: MS Method Blank	432 BS	108 % Recovery	400 True Value QC	0.00	
Chloride TPH 8015M	80.0 mg/ Result <10.0	16.0 kg Reporting Limit 10.0	02/03/2020 Analyze Analyzed 02/03/2020	ND d By: MS Method Blank ND	432 BS 226	108 % Recovery 113	400 True Value QC 200	0.00 RPD 2.81	

37.6-147

Surrogate: 1-Chlorooctadecane

74.6%

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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

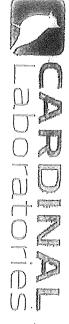
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg & Keens



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

Talon L	O.K. :	ANALYSIS REQUEST
Project Manager Chris Jones	P.O. # 701307, 126	
Address: 408 W Texas Ave		, p
City: Artesia State: NM Zip: 88210	Atm: Chris Jone	67
Phone	Address	
Project %: 701307, 126.01 Project Owner: Line Recl	City:	
Red Lake	State: Zip:	
Project Location: Eddy County	**	05
Sampler Name: Brandon Sincla !	Fax #:	; d
úda	PRESERV, SAMPLING	I
R9 JER		EX
Hobo 30 III III III III III III III III III	OTHER: ACID/BASE: ICE/COOL OTHER:	TPH BTEX Total
	1-29-20	1440 (1)(1)(1)
33.8-1		1442
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10 12 10'		130
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Relinquished By: Path 20 Repeived By:		Phone Result: □ Yes □ No Add'! Phoπe Φ: Fax Result: □ Yes □ No - Add'! Phoπe Φ: REFINARYS:
Relinquished By: Date: Repelved By:	NAME OF THE PARTY	sample
Time:	•	in descending order until cleanup criteria is
	CHECKED BY:	met (600 mg/kg Cl, 100 mg/kg TPH, and 50 mg/kg BTB).
Sampler-UPS - Bus - Other: #1/3 . 4.60 Has Fres	A. Carrent	pg (0f)





February 12, 2020

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WRLU 81 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/11/20 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

02/11/2020

02/12/2020 Reported:

Received:

Project Name: WRLU 81 BATTERY Project Number: 701307.126.01

Project Location: LIMEROCK-EDDY CTY., NM Sampling Date:

02/05/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

Sample ID: N. SIDEWALL COMP 1.5 (H000414-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/12/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2020	ND	201	101	200	5.43	
DRO >C10-C28*	<10.0	10.0	02/12/2020	ND	199	99.5	200	6.77	
EXT DRO >C28-C36	<10.0	10.0	02/12/2020	ND					
Surrogate: 1-Chlorooctane	88.1	% 41-142	,						
Surrogate: 1-Chlorooctadecane	89.7	% 37.6-14	7						

Sample ID: S. SIDEWALL COMP 1.5 (H000414-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/12/2020	ND	432	108	400	0.00	

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celey & Kreene



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	Date: Received By:
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	5. Sidewell Comp 1.5 C 1 1 25 1085
	J. Came! (omp : /. 5 !
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! E	MP.
- X*	Faxt #3
	Project Location: Eddy Phone #:
	TRIC FO
	(357.126.0) Project Owner: Circ Rock
	77 Fax 偿:
	State: VN Zip: 882 10
,	Taxas
- 11	Froject Manager: C) coes
ANALYSIS REGIDEST	1
	Company Name:

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