



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

August 21, 2024

Re: Red Lake 28 State K Battery

Case # 2RP-3960, 2RP-3961 nAB1629941525, nAB1629936433

On 10/04/2016 a release occurred due to a nipple corroded. On 10/11/2016 a release occurred due to a pin hole developed in the steel circulating tank. The release (GPS: 32.8027039, -104.1840439) is west of Artesia, New Mexico in unit letter K section 28 township 17S range 28E. A groundwater survey was conducted utilizing NMOSE and USGS wells of record. The nearest well suggest that groundwater beneath the release to be 257 feet below ground surface.

On 1/15/2020 the release area east of the battery was excavated to a depth of 7 feet below ground surface. Final 5-point bottom and wall composite samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results were above table one standards W1 for TPH. On 1/22/2020 and 2/11/2020 W1 was further excavated, and a final 5-point wall composite sample was submitted to a commercial laboratory. Laboratory results were below table one standards on the sample submitted on 2/11/2021.

On 6/22/2021 delineation samples were collected inside the battery, the pasture area to the south and the top 4 feet for W4 and W5 associated with the 7 feet excavation. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. The pasture area south of the battery was excavated to a depth of 3 feet. On 7/13/2021 final 5-point bottom and wall samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once all laboratory results were below table one standards and reclamation standards the 7-foot excavation was backfilled with clean imported caliche to ground surface and the pad restored. The 3-foot excavation in the pasture was backfilled with clean imported topsoil to ground surface and contoured to the surrounding area. The pasture area will be reseeded NMSLO Loamy seed mixture.

A deferment request was submitted and denied by OCD due to groundwater not being determined adequately and incomplete delineation. On 8/3/2021 a soil bore (GPS: 32.798190, -104.177687) was drilled to a depth of 104 feet and left open for 72 hours and gauged with no presence of water. The soil bore demonstrates that the depth to groundwater is greater than 104 feet. On 7/31/2024 W2 and W6 were sampled not to exceed 200 square feet and submitted to a commercial laboratory for TPH to complete horizontal delineation. 5-point composite samples were collected at B2 and B3 inside the facility not to exceed 200 square feet and submitted to a commercial laboratory for analysis of TPH. The laboratory analysis of the samples were below table one most stringent remediation standards.

Apache Corporation has remediated the release to below table one standards for releases greater than 100 feet to groundwater and reclaimed the pasture area to the reclamation standards and respectfully request that events nAB1629941525 and nAB1629936433 be closed.

Enclosed: C-141, Maps, Sample Data, Laboratory Results, Photos and Revegetation and Noxious Weed Plan.

Submitted by.

Larry Baker

Environmental Specialist Sr.

larry.baker@apachecorp.com

Cell# 432-250-8384

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141

Revised August 8, 2011

OCT 24 2016

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Apache Corporation 873	Contact Bruce Baker
Address: 2350 W Marland Blvd Hobbs, NM 88240	Telephone No. (432) 631-6982
Facility Name Red Lake K State # 1 Battery	Facility Type: Battery
Surface Owner State	Mineral Owner
API No. 30-015-33740	

LOCATION OF RELEASE

Unit Letter K	Section 28	Township 17S	Range 28E	Feet from the 1650	North/South Line FSL	Feet from the 1650	East/West Line FWL	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	-------------------------	-----------------------	-----------------------	----------------

Latitude N32.8027039 Longitude W104.1840439

NATURE OF RELEASE

Type of Release: Oil	Volume of Release 45 barrels of Oil	Volume Recovered 42 barrels of Oil
Source of Release: Circulating line	Date and Hour of Occurrence 10/10/2016	Date and Hour of Discovery 10/10/2016
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher (NMOCD)	
By Whom? Bruce Baker	Date and Hour 10/11/2016 via phone and email at 3:09 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A release occurred due to pin hole developed in the steel circulating tank. The oil tank was isolated and vacuum truck was dispatched to pick-up standing oil. The line was replaced.

Describe Area Affected and Cleanup Action Taken.* The majority of the release affected the pasture south of the battery.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Bruce Baker	OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker	Approved by Environmental Specialist: H2 [Signature]	
Title: Environmental Technician	Approval Date: 10/25/16	Expiration Date: N/A
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval:	
Date: 10/24/2016 Phone: (432) 631-6982	Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/>	
SUBMIT REMEDIATION PROPOSAL NO		
LATER THAN: 11/26/16		

* Attach Additional Sheets If Necessary

2RP-3960

NM OIL CONSERVATION

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

ARTESIA DISTRICT

OCT 24 2016

Form C-141
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1629941525

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Apache Corporation	Contact: Bruce Baker
Address: 2350 W Marland Blvd Hobbs, NM 88240	Telephone No. (432) 631-6982
Facility Name: Red Lake K State # 1 Battery	Facility Type: Battery

Surface Owner State	Mineral Owner	API No. 30-015-33740
---------------------	---------------	----------------------

LOCATION OF RELEASE

Unit Letter K	Section 28	Township 17S	Range 28E	Feet from the 1650	North/South Line FSL	Feet from the 1650	East/West Line FWL	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	-------------------------	-----------------------	-----------------------	----------------

Latitude N32.8027039 Longitude W104.1840439

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 200 barrels of Oil	Volume Recovered: 170 barrels of Oil
Source of Release: Oil Tank	Date and Hour of Occurrence: 10/4/2015	Date and Hour of Discovery: 10/4/2015 at 1:00 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher (NMOCD)	
By Whom? Bruce Baker	Date and Hour 10/4/2016 via phone and email at 2:37 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A release occurred due to a 4"X2" swedge nipple connection between the oil tank and drain/circulating line corroded. The tank was isolated and trucks were dispatched to pick-up standing oil.

Describe Area Affected and Cleanup Action Taken.* The entire release was contained to the secondary containment berm and the swedge nipple was replaced.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Bruce Baker</i>	OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Environmental Technician	Approval Date: 10/25/16	Expiration Date: N/A
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines Attached <input type="checkbox"/>	
Date: 10/24/2016 Phone: (432) 631-6982	SUBMIT REMEDIATION PROPOSAL NO	

* Attach Additional Sheets If Necessary

LATER THAN: 11/26/16

2RP-3901

Incident ID	
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?	<u>257</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.

Oil Conservation Division

Incident ID	
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: Larry Baker Title: Environmental Tech SR.
Signature: *Larry Baker* Date: 7/30/2021
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Larry Baker

Title: Environmental Specialist Sr.

Signature: Larry Baker

Date: 08/21/2024

email: larry.baker@apachecorp.com

Telephone: 432-250-8384

OCD Only

Received by: _____

Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____

To:  Baker, Larry

Thu 2/16/2023 10:34 AM

To whom it may concern (c/o Larry Baker for APACHE CORPORATION),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1629936433, for the following reasons:

- **The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.**
- **Horizontal and vertical delineation submitted was incomplete and did not meet the requirements of [19.15.29.11](#) NMAC. The values for determination of horizontal impact are derived by either approved “background” values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for “on-pad” releases to ensure the release did not extend to the “off-pad”/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved “background” values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation.**
- **Submit report via the OCD permitting portal by 5/18/2023.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 167476.

Please review and make the required correction(s) prior to resubmitting.



If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

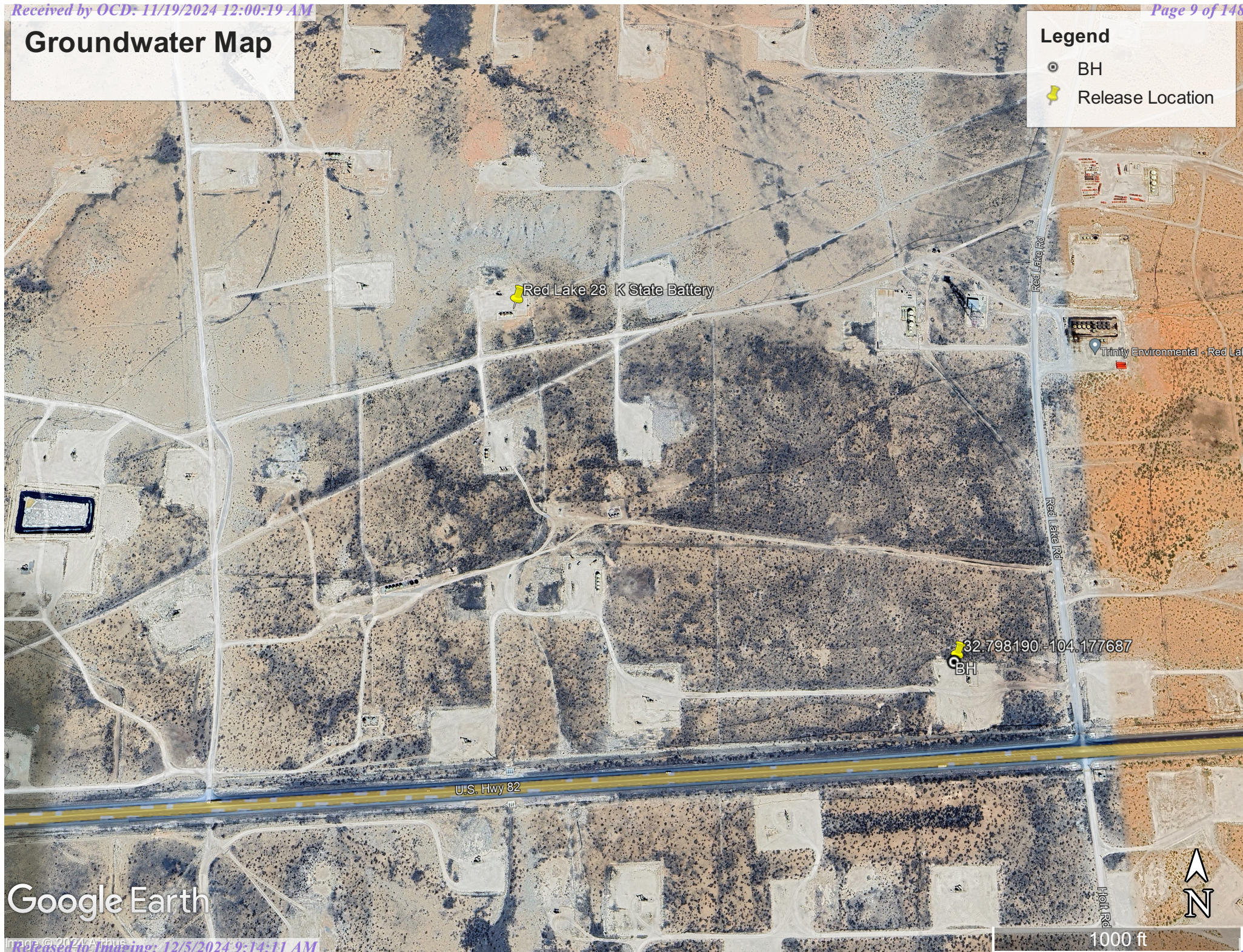
Thank you,
Ashley Maxwell
Projects Environmental Specialist - A
505-635-5000
Ashley.Maxwell@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Groundwater Map

Legend

-  BH
-  Release Location



Google Earth

Desert Sand Water Well Services, LLC.

Soil Bore Report

[illegible]



Red Lake 28 K State Battery
W4 B2 W3
SW

USGS 324724104082301

Google Earth

8151 ft



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

Click to hideNews Bulletins

- [Please see news on new formats](#)
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324724104082301

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 324724104082301 17S.28E.35.42233

Available data for this site

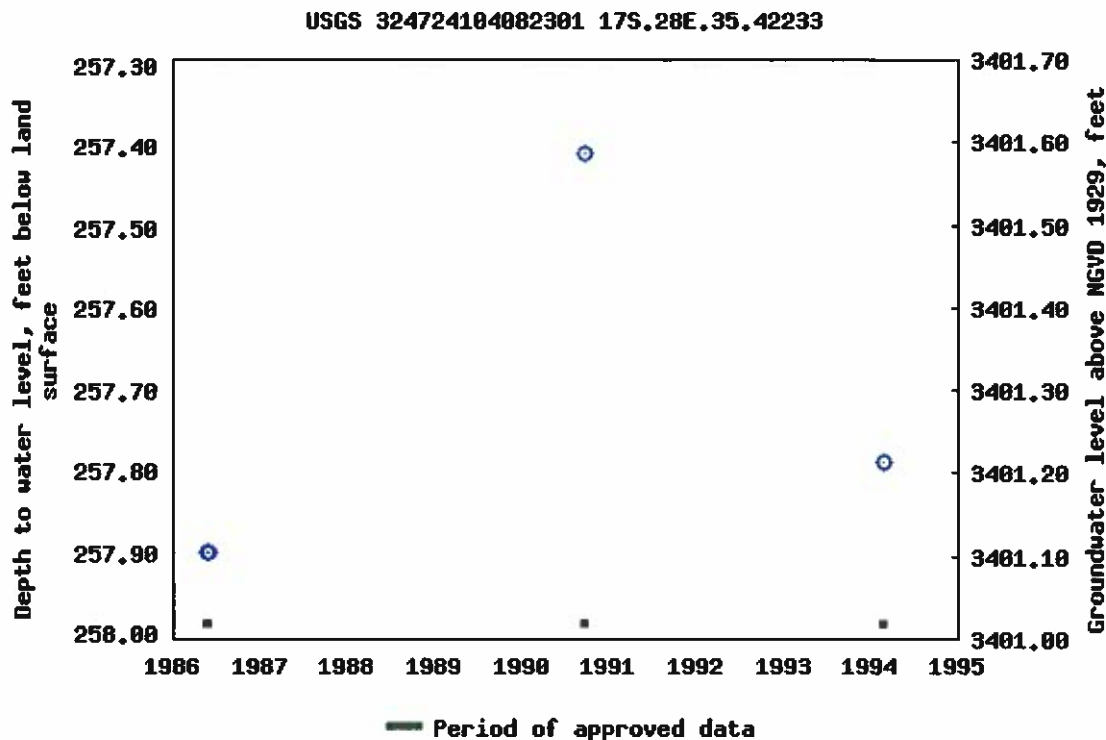
Groundwater: Field measurements

GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°47'24", Longitude 104°08'23" NAD27
Land-surface elevation 3,659 feet above NGVD29
The depth of the well is 280.00 feet below land surface.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)

[Plug-Ins](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

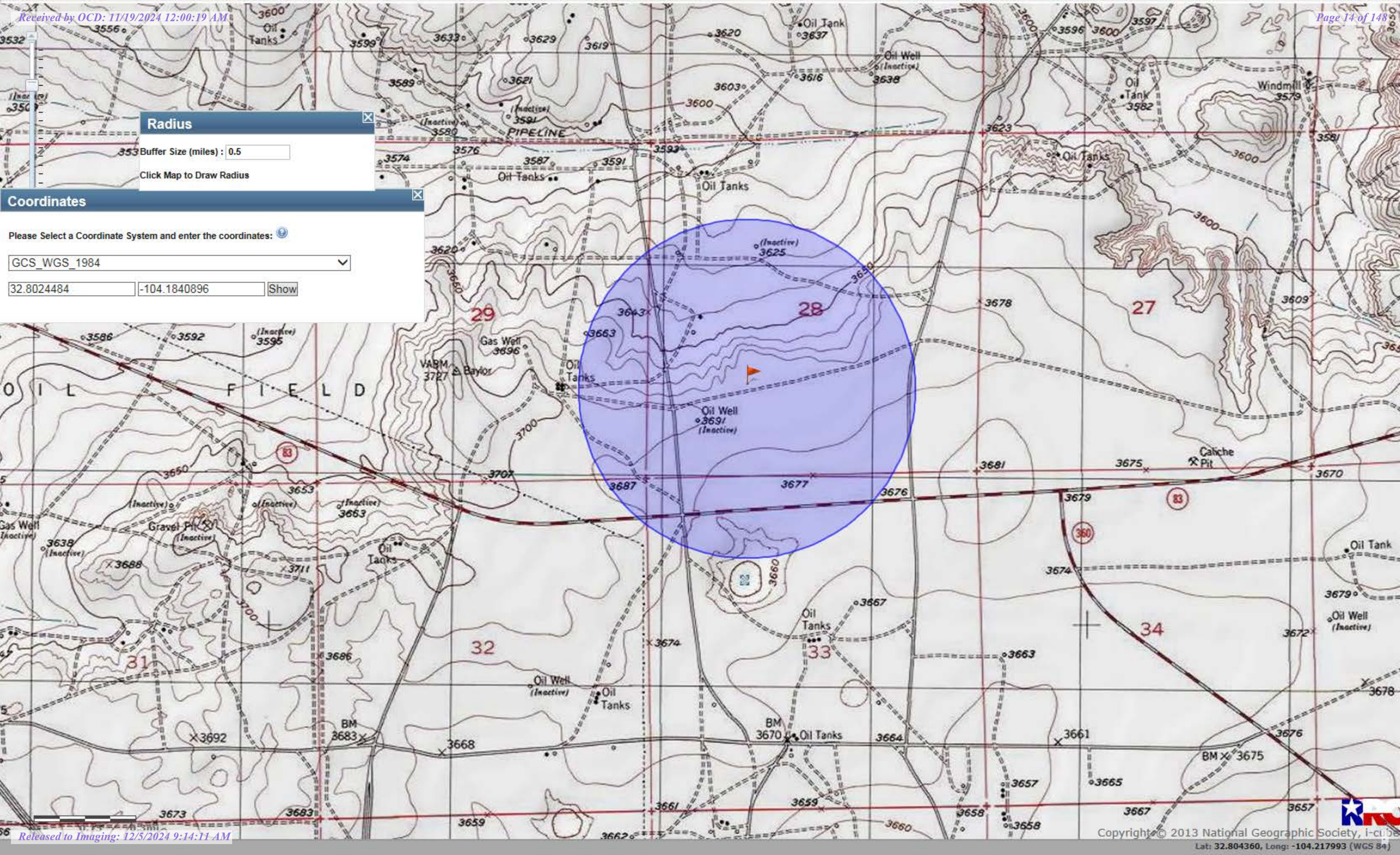
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2018-12-03 16:31:20 EST

1.05 0.92 nadww01



Radius

Buffer Size (miles) : 0.5

Click Map to Draw Radius

Coordinates

Please Select a Coordinate System and enter the coordinates:

GCS_WGS_1984

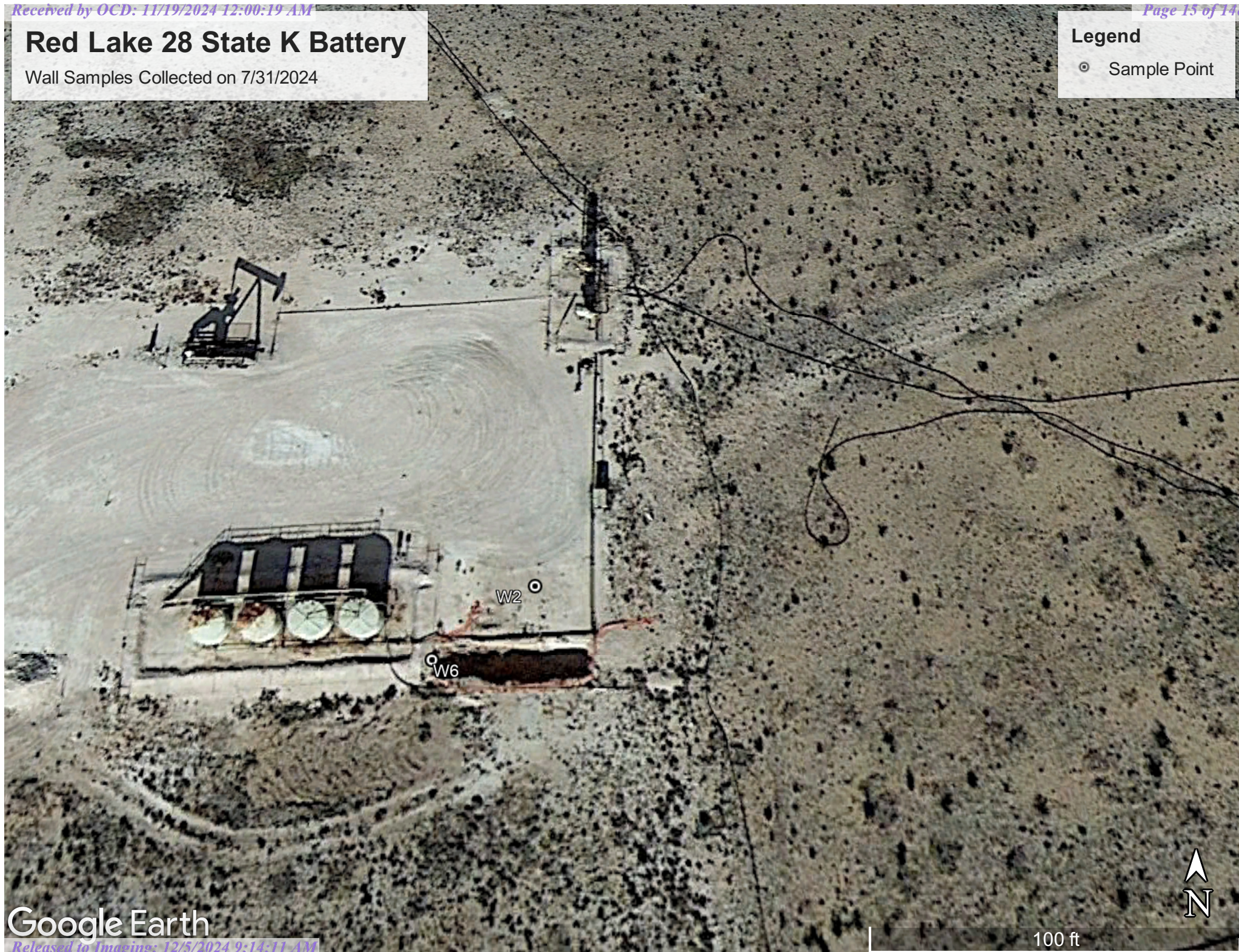
32.8024484 -104.1840896 Show

Red Lake 28 State K Battery

Wall Samples Collected on 7/31/2024

Legend

○ Sample Point



Google Earth

100 ft

Additional Final Samples taken on 7/31/2024

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
7/31/2024	B2	0-3"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
	B3	0-3"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	34.8	24.6	
	W2	0-3"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8024917 -104.1837161
	W6	0-3"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8024253, -104.1838170



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

August 06, 2024

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: RED LAKE 28 STATE "K" BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/31/24 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/06/2024	Sampling Type:	Soil
Project Name:	RED LAKE 28 STATE "K" BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: B 2 @ 0-3" (H244580-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.94	97.2	2.00	0.851	
Toluene*	<0.050	0.050	08/01/2024	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.95	97.3	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.77	96.2	6.00	3.11	
Total BTEX	<0.300	0.300	08/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	187	93.6	200	7.06	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	193	96.4	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/06/2024	Sampling Type:	Soil
Project Name:	RED LAKE 28 STATE "K" BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: B 3 @ 0-3" (H244580-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2024	ND	1.94	97.2	2.00	0.851		
Toluene*	<0.050	0.050	08/01/2024	ND	1.92	96.1	2.00	1.45		
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.95	97.3	2.00	2.47		
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.77	96.2	6.00	3.11		
Total BTEX	<0.300	0.300	08/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	187	93.6	200	7.06	
DRO >C10-C28*	34.8	10.0	08/01/2024	ND	193	96.4	200	6.39	
EXT DRO >C28-C36	24.8	10.0	08/01/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/06/2024	Sampling Type:	Soil
Project Name:	RED LAKE 28 STATE "K" BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: W 2 BGS 0-3" (H244580-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2024	ND	1.94	97.2	2.00	0.851		
Toluene*	<0.050	0.050	08/01/2024	ND	1.92	96.1	2.00	1.45		
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.95	97.3	2.00	2.47		
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.77	96.2	6.00	3.11		
Total BTX	<0.300	0.300	08/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	187	93.6	200	7.06	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	193	96.4	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/06/2024	Sampling Type:	Soil
Project Name:	RED LAKE 28 STATE "K" BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: W 6 BGS 0-3" (H244580-04)

BTX 8021B			mg/kg							
			Analyzed By: JH							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2024	ND	1.94	97.2	2.00	0.851		
Toluene*	<0.050	0.050	08/01/2024	ND	1.92	96.1	2.00	1.45		
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.95	97.3	2.00	2.47		
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.77	96.2	6.00	3.11		
Total BTX	<0.300	0.300	08/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	187	93.6	200	7.06		
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	193	96.4	200	6.39		
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND						

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

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

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache		BILL TO		ANALYSIS REQUEST																																							
Project Manager: Bruce Baker		P.O. #:																																									
Address:		Company:																																									
City: Hobbs		Attn:																																									
State: NM		Address:																																									
Zip: 88240		City:																																									
Phone #:		State:																																									
Fax #:		Zip:																																									
Project #:		Phone #:																																									
Project Owner:		Fax #:																																									
Project Name:		Project Location: Red Lake 28 5th Battery																																									
Sampler Name: José Quevedo																																											
FOR LAB USE ONLY																																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		TPH		BT EX											
1		B 200-3"		C 1		1		1		1		1		1		1		1		1		1		1		7/31		3:54		1		1											
2		B 300-3"		C 1		1		1		1		1		1		1		1		1		1		1		7/31		3:58		1		1											
3		W 28650-3"		C 1		1		1		1		1		1		1		1		1		1		1		7/31		4:00		1		1											
4		W 61345-0-3"		C 1		1		1		1		1		1		1		1		1		1		1		7/31		4:02		1		1											
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated res., "as" or otherwise.																																											
Relinquished By:		Date: 7/31/24		Received By:																																							
Relinquished By: José Quevedo		Time: 4:00		Received By: ADANA																																							
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard		Bacteria (only)		Sample Condition																													
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		Yes No		Yes No		Yes No		Yes No		Yes No		Yes No																											
FORM 0001 R-3-4 07/11/23		2.0°C		Yes		AD		2-No/250 Hs		Rush		No		No		No																											



July 30, 2021

Mr. Bradford Billings
State of New Mexico Oil Conservation Division
1220 South St Francis Drive
Santa Fe, NM 87505

RE: 2RP-3960, 2RP-3961 Red Lake 28 K State Battery

Mr. Billings,

In compliance with 19.15.29.15(B) NMAC and the agreement submitted by Apache Corporation on November 8, 2018. Apache Corporation is submitting information related to closure for the release occurring October 4 and 11, 2016. Apache is respectfully submitting the deferment request based on remediation and studies occurring in 2021.

If there are any questions, please feel free to contact me by telephone at 432-631-6982 or by e-mail at larry.baker@apachecorp.com

Sincerely,

Larry Baker

Larry Baker
Environmental Technician SR.
Apache Corporation

Attachment: Closure Report Dated July 30, 2021.



303 Veterans Airpark Lane Midland, TX 79705

Deferment Request

July 30, 2021

Re: Red Lake 28 State K Battery
Case # 2RP-3960, 2RP-3961

On 10/04/2016 a release occurred due to a nipple corroded. On 10/11/2016 a release occurred due to a pin hole developed in the steel circulating tank. The release (GPS: 32.8027039, -104.1840439) is west of Artesia, New Mexico in unit letter K section 28 township 17S range 28E. A groundwater survey was conducted utilizing NMOSE and USGS wells of record. The nearest well suggest that groundwater beneath the release to be 257 feet below ground surface.

On 1/15/2020 the release area east of the battery was excavated to a depth of 7 feet below ground surface. Final 5 point bottom and wall composite samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results were above table one standards W1 for TPH. On 1/22/2020 and 2/11/2020 W1 was further excavated and a final 5 point wall composite sample was submitted to a commercial laboratory. Laboratory results were below table one standards on the sample submitted on 2/11/2021.

On 6/22/2021 delineation samples were collected inside the battery, the pasture area to the south and the top 4 feet for W4 and W5 associated with the 7 feet excavation. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. The pasture area south of the battery was excavated to a depth of 3 feet. On 7/13/2021 final 5 point bottom and wall samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once all laboratory results were below table one standards and reclamation standards the 7 foot excavation was backfilled with clean imported caliche to ground surface and the pad restored. The 3 foot excavation in the pasture was backfilled with clean imported top soil to ground surface and contoured to the surrounding area. The pasture area will be reseeded NMSLO Loamy seed mixture.

Apache respectfully request deferment of the release are inside the battery until system abandonment.

Enclosed: C-141, Maps, Sample Data, Laboratory Results, Photos and Revegetation and Noxious Weed Plan.

Submitted by;

Bruce Baker

Environmental Technician SR.
larry.baker@apachecorp.com
Cell# 432-631-6982

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141

Revised August 8, 2011

OCT 24 2016

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Apache Corporation 873	Contact Bruce Baker
Address: 2350 W Marland Blvd Hobbs, NM 88240	Telephone No. (432) 631-6982
Facility Name Red Lake K State # 1 Battery	Facility Type: Battery
Surface Owner State	Mineral Owner
API No. 30-015-33740	

LOCATION OF RELEASE

Unit Letter K	Section 28	Township 17S	Range 28E	Feet from the 1650	North/South Line FSL	Feet from the 1650	East/West Line FWL	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	-------------------------	-----------------------	-----------------------	----------------

Latitude N32.8027039 Longitude W104.1840439

NATURE OF RELEASE

Type of Release: Oil	Volume of Release 45 barrels of Oil	Volume Recovered 42 barrels of Oil
Source of Release: Circulating line	Date and Hour of Occurrence 10/10/2016	Date and Hour of Discovery 10/10/2016
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher (NMOCD)	
By Whom? Bruce Baker	Date and Hour 10/11/2016 via phone and email at 3:09 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A release occurred due to pin hole developed in the steel circulating tank. The oil tank was isolated and vacuum truck was dispatched to pick-up standing oil. The line was replaced.

Describe Area Affected and Cleanup Action Taken.* The majority of the release affected the pasture south of the battery.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Bruce Baker</i>	OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker	Approved by Environmental Specialist: <i>H2</i>	
Title: Environmental Technician	Approval Date: 10/25/16	Expiration Date: N/A
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval:	
Date: 10/24/2016 Phone: (432) 631-6982	Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/>	
SUBMIT REMEDIATION PROPOSAL NO		
LATER THAN: 11/26/16		

* Attach Additional Sheets If Necessary

2RP-39600

NM OIL CONSERVATION

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

ARTESIA DISTRICT

OCT 24 2016

Form C-141
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1629941525

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Apache Corporation	Contact: Bruce Baker
Address: 2350 W Marland Blvd Hobbs, NM 88240	Telephone No. (432) 631-6982
Facility Name: Red Lake K State # 1 Battery	Facility Type: Battery

Surface Owner State	Mineral Owner	API No. 30-015-33740
---------------------	---------------	----------------------

LOCATION OF RELEASE

Unit Letter K	Section 28	Township 17S	Range 28E	Feet from the 1650	North/South Line FSL	Feet from the 1650	East/West Line FWL	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	-------------------------	-----------------------	-----------------------	----------------

Latitude N32.8027039 Longitude W104.1840439

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 200 barrels of Oil	Volume Recovered: 170 barrels of Oil
Source of Release: Oil Tank	Date and Hour of Occurrence: 10/4/2015	Date and Hour of Discovery: 10/4/2015 at 1:00 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher (NMOCD)	
By Whom? Bruce Baker	Date and Hour 10/4/2016 via phone and email at 2:37 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A release occurred due to a 4"X2" swedge nipple connection between the oil tank and drain/circulating line corroded. The tank was isolated and trucks were dispatched to pick-up standing oil.

Describe Area Affected and Cleanup Action Taken.* The entire release was contained to the secondary containment berm and the swedge nipple was replaced.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Bruce Baker</i>	OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Environmental Technician	Approval Date: 10/25/16	Expiration Date: N/A
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines Attached <input type="checkbox"/>	
Date: 10/24/2016 Phone: (432) 631-6982	SUBMIT REMEDIATION PROPOSAL NO	

* Attach Additional Sheets If Necessary

LATER THAN: 11/26/16

2RP-3901

Incident ID	
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?	<u>257</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"><input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.<input checked="" type="checkbox"/> Field data<input checked="" type="checkbox"/> Data table of soil contaminant concentration data<input checked="" type="checkbox"/> Depth to water determination<input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release<input checked="" type="checkbox"/> Boring or excavation logs<input checked="" type="checkbox"/> Photographs including date and GIS information<input checked="" type="checkbox"/> Topographic/Aerial maps<input checked="" type="checkbox"/> 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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
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: Larry Baker Title: Environmental Tech SR.
Signature: *Larry Baker* Date: 7/30/2021
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

Incident ID	
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: Larry Baker Title: Environmental Tech SR.
Signature: Larry Baker Date: 7/30/2021
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____



Red Lake 28 K State Battery
W4 B2 W3 SW

USGS 324724104082301

8151 ft

Google Earth



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

Click to hideNews Bulletins

- [Please see news on new formats](#)
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324724104082301

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 324724104082301 17S.28E.35.42233

Available data for this site

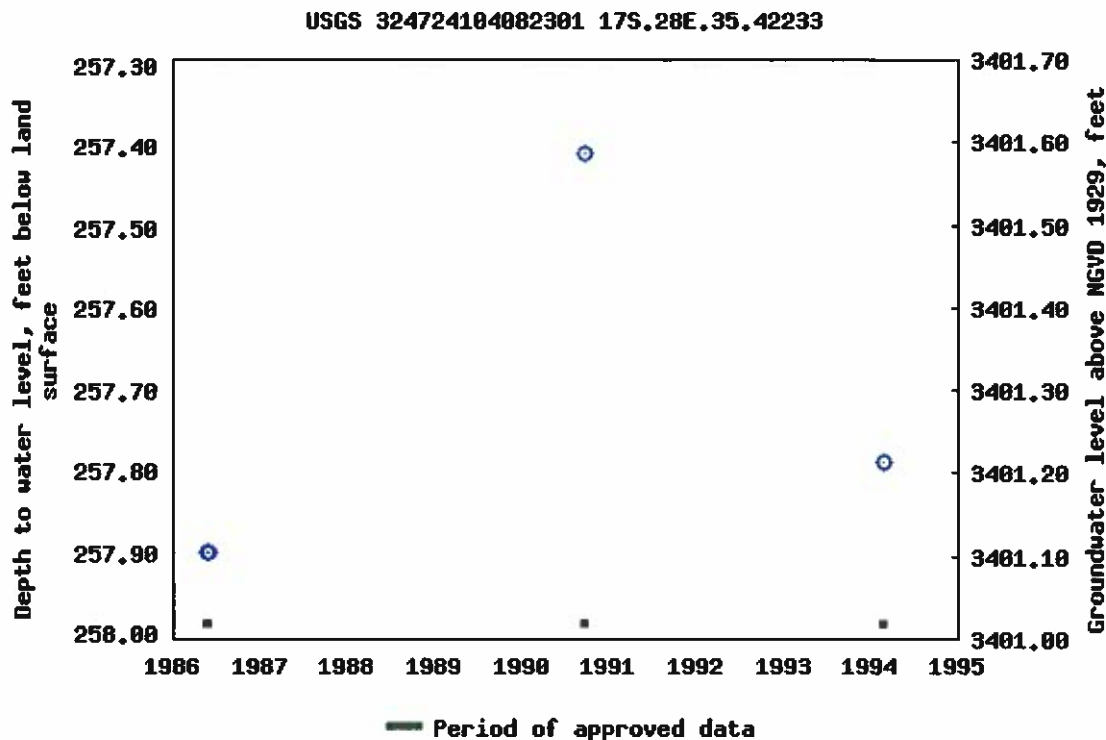
Groundwater: Field measurements

GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°47'24", Longitude 104°08'23" NAD27
Land-surface elevation 3,659 feet above NGVD29
The depth of the well is 280.00 feet below land surface.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)

[Plug-Ins](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

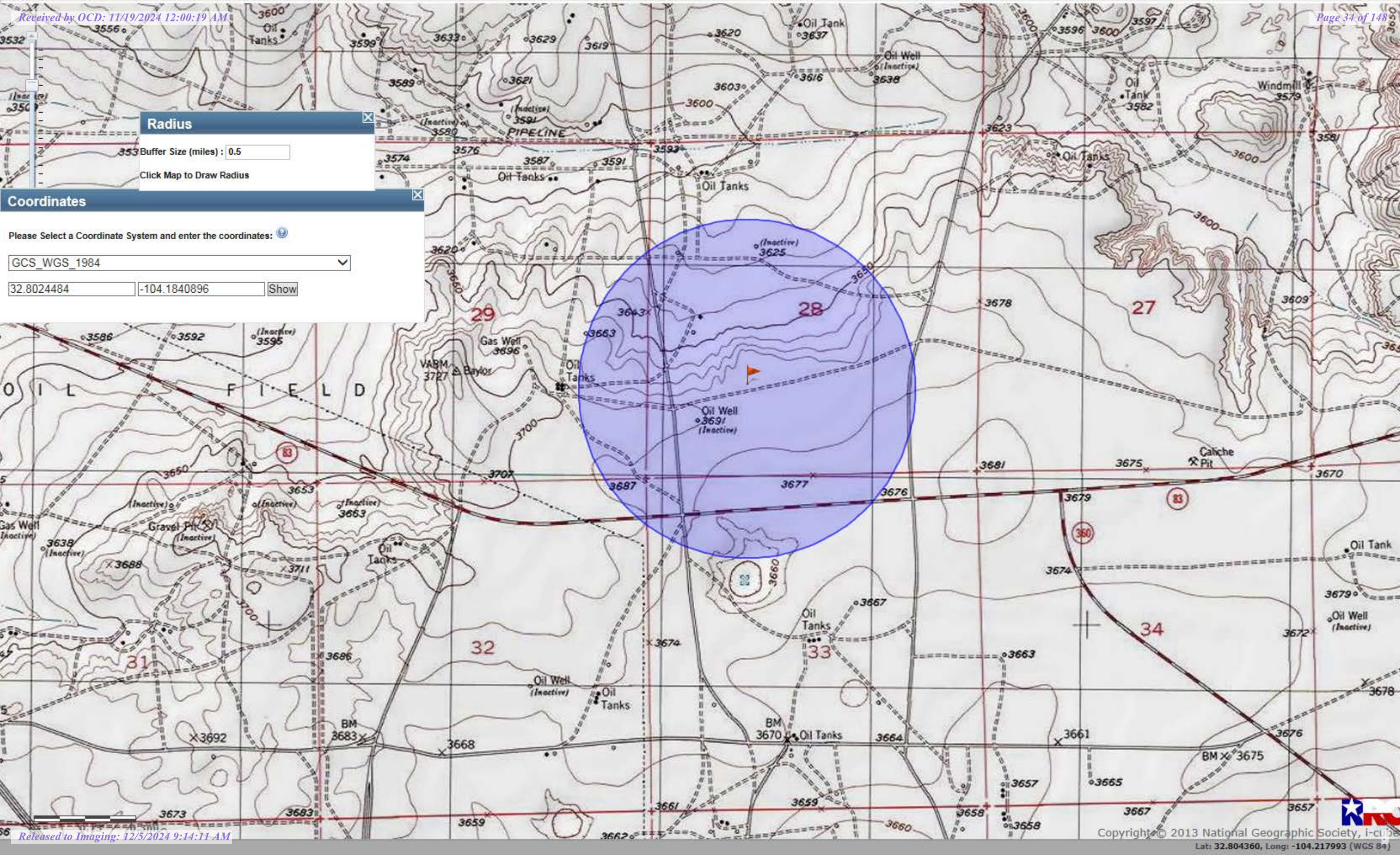
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2018-12-03 16:31:20 EST

1.05 0.92 nadww01



Radius

Buffer Size (miles) : 0.5

Click Map to Draw Radius

Coordinates

Please Select a Coordinate System and enter the coordinates:

GCS_WGS_1984

32.8024484 -104.1840896 Show



SP-3

SP-7

SP-8

S-4

S-2

S-6

S-5

Google Earth

50 ft



Google Earth

Final Samples 2021

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
6/21/2021	SP 6 W1	0-4'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.5	<10.0
6/21/2021	SP 6 B1	4'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP6 B2	4'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	64.4	<10.0
6/21/2021	SP6 B2	4'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	71.8	<10.0
6/21/2021	SP 6 B4	4'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.1	<10.0
6/21/2021	SP 6 B5	4'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 6 B6	4'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	81.9	11.5
6/29/2021	SP 6 SP 7	5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		6'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		7'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		8'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
	SP 6 SP 8	5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	50.7	28.9
		6'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
		7'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
		8'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 5 W2	0-1'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	75.7	<10.0
6/21/2021	SP 5 B7	0-1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.2	<10.0
6/21/2021	SP 5 B8	0-1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 1	1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 2	1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 3	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021		2'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 4	6"	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
7/13/2021	SP 7	1'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	361	133

7' Excavation Final Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
1/15/2020	B1	7'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8024315, -104.1837918
1/15/2020	B2	7'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8024366, -104.1837016
1/15/2020	W1	0-7'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1010	201	32.8024388 -104.1837918
1/22/2020	W1	0-7'		<0.050	<0.050	<0.050	0.234	<0.300	46.7	1060	217	
2/11/2020	W1	0-7'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8024557 -104.1837865
1/15/2020	W2	0-7'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	636	95.2	32.8024436 -104.1836973
1/15/2020	W3	0-7'	304	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8024363 -104.1836594
1/15/2020	W4	0-7'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	889	271	32.8024138 -104.1837047
6/22/2021	W4	1-4'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
1/15/2020	W5	0-7'	64	<0.050	<0.050	<0.050	<0.150	<0.300	15.4	880	161	32.8024115 -104.1837724
6/22/2021	W5	1-4'	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	477	139	
7/6/2021	W5	1-8'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	206	51.9	
7/13/2021	W5	1-8'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
1/15/2020	W6	0-7'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	604	157	32.8024318 -104.1838190

Surface Compostie Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
6/22/2021	B1	Surface	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	892	260	32.8024484, -104.1840896
6/22/2021	B2	Surface	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1110	309	32.8024467, -104.1840641
6/22/2021	B3	Surface	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1130	331	32.8024402, -104.1840285
6/22/2021	B4	Surface	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	171	52.6	32.8024448, -104.1839719
6/22/2021	B5	Surface	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	817	373	32.8024411, -104.1839420
6/22/2021	B6	Surface	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	462	190	32.8024428, -104.1839142
6/22/2021	B7	Surface	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8024484, -104.1838787
6/22/2021	B8	Surface	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	75.4	12.7	32.8024650, -104.1838592
6/22/2021	B9	Surface	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	178	67.4	32.8023303, -104.1839625
6/22/2021	B10	Surface	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8023441, -104.1839273
6/22/2021	B11	Surface	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8023371, -104.1838847
6/22/2021	B12	Surface	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.9	<10.0	32.8023580, -104.1838317
6/22/2021	NW	Surface	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8024972, -104.1839658
6/22/2021	SW	Surface	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8024157, -104.1839551
6/22/2021	WW	Surface	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8024532, -104.1838277
6/22/2021	EW	Surface	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.80244634, -104.1841070

3' Excavation Final Composite Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
7/7/2021	NW	0-3'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.802371, -104.183904
7/7/2021	SW	0-3'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.802304, -104.183883
7/7/2021	EW	0-3'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.802360, -104.183817
7/7/2021	WW	0-3'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.802326, -104.183981
7/7/2021	B9	3'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8023303, -104.1839625
7/7/2021	B10	3'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8023441, -104.1839273
7/7/2021	B11	3'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8023371, -104.1838847
7/7/2021	B12	3'	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8023580, -104.1838317



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

January 22, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: RED LAKE 28 ST K BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/15/20 15:20.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/15/2020	Sampling Date:	01/15/2020
Reported:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 1 @ 7' 32.8024315-104.1837918 (H000140-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2020	ND	2.03	101	2.00	6.41	
Toluene*	<0.050	0.050	01/20/2020	ND	1.99	99.5	2.00	6.82	
Ethylbenzene*	<0.050	0.050	01/20/2020	ND	2.02	101	2.00	6.58	
Total Xylenes*	<0.150	0.150	01/20/2020	ND	5.85	97.5	6.00	5.67	
Total BTEX	<0.300	0.300	01/20/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/17/2020	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	<10.0	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	01/18/2020	ND					

Surrogate: 1-Chlorooctane 98.2 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/15/2020	Sampling Date:	01/15/2020
Reported:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 2 @ 7' 32.8024366-104.1837016 (H000140-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2020	ND	2.07	104	2.00	10.5	
Toluene*	<0.050	0.050	01/17/2020	ND	2.08	104	2.00	10.8	
Ethylbenzene*	<0.050	0.050	01/17/2020	ND	2.11	106	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/17/2020	ND	6.19	103	6.00	10.9	
Total BTEX	<0.300	0.300	01/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/17/2020	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	<10.0	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	01/18/2020	ND					

Surrogate: 1-Chlorooctane 95.7 % 41-142

Surrogate: 1-Chlorooctadecane 98.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/15/2020	Sampling Date:	01/15/2020
Reported:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 1 32.8024388-104.1837918 (H000140-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2020	ND	2.07	104	2.00	10.5		
Toluene*	<0.050	0.050	01/17/2020	ND	2.08	104	2.00	10.8		
Ethylbenzene*	<0.050	0.050	01/17/2020	ND	2.11	106	2.00	10.6	GC-NC	
Total Xylenes*	<0.150	0.150	01/17/2020	ND	6.19	103	6.00	10.9		
Total BTEx	<0.300	0.300	01/17/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/17/2020	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	1010	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	201	10.0	01/18/2020	ND					

Surrogate: 1-Chlorooctane 82.7 % 41-142

Surrogate: 1-Chlorooctadecane 95.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/15/2020	Sampling Date:	01/15/2020
Reported:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 2 32.8024436-104.1836973 (H000140-04)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2020	ND	2.07	104	2.00	10.5		
Toluene*	<0.050	0.050	01/17/2020	ND	2.08	104	2.00	10.8		
Ethylbenzene*	<0.050	0.050	01/17/2020	ND	2.11	106	2.00	10.6		
Total Xylenes*	<0.150	0.150	01/17/2020	ND	6.19	103	6.00	10.9		
Total BTX	<0.300	0.300	01/17/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/17/2020	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	636	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	95.2	10.0	01/18/2020	ND					

Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/15/2020	Sampling Date:	01/15/2020
Reported:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 3 32.8024363-104.1836594 (H000140-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2020	ND	2.07	104	2.00	10.5		
Toluene*	<0.050	0.050	01/17/2020	ND	2.08	104	2.00	10.8		
Ethylbenzene*	<0.050	0.050	01/17/2020	ND	2.11	106	2.00	10.6		
Total Xylenes*	<0.150	0.150	01/17/2020	ND	6.19	103	6.00	10.9		
Total BTX	<0.300	0.300	01/17/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/17/2020	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	<10.0	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	01/18/2020	ND					

Surrogate: 1-Chlorooctane 90.0 % 41-142

Surrogate: 1-Chlorooctadecane 94.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/15/2020	Sampling Date:	01/15/2020
Reported:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: WALL 4 32.8024138-104.1837047 (H000140-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2020	ND	2.07	104	2.00	10.5	
Toluene*	<0.050	0.050	01/17/2020	ND	2.08	104	2.00	10.8	
Ethylbenzene*	<0.050	0.050	01/17/2020	ND	2.11	106	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/17/2020	ND	6.19	103	6.00	10.9	
Total BTX	<0.300	0.300	01/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/17/2020	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	889	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	271	10.0	01/18/2020	ND					

Surrogate: 1-Chlorooctane 85.6 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/15/2020	Sampling Date:	01/15/2020
Reported:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: WALL 5 32.8024115-104.1837724 (H000140-07)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2020	ND	2.07	104	2.00	10.5	
Toluene*	<0.050	0.050	01/17/2020	ND	2.08	104	2.00	10.8	
Ethylbenzene*	<0.050	0.050	01/17/2020	ND	2.11	106	2.00	10.6	GC-NC
Total Xylenes*	<0.150	0.150	01/17/2020	ND	6.19	103	6.00	10.9	
Total BTX	<0.300	0.300	01/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 156 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/17/2020	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15.4	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	880	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	161	10.0	01/18/2020	ND					

Surrogate: 1-Chlorooctane 92.4 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/15/2020	Sampling Date:	01/15/2020
Reported:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 6 32.8024318-104.1838190 (H000140-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2020	ND	2.07	104	2.00	10.5		
Toluene*	<0.050	0.050	01/17/2020	ND	2.08	104	2.00	10.8		
Ethylbenzene*	<0.050	0.050	01/17/2020	ND	2.11	106	2.00	10.6		
Total Xylenes*	<0.150	0.150	01/17/2020	ND	6.19	103	6.00	10.9		
Total BTEx	<0.300	0.300	01/17/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/17/2020	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	604	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	157	10.0	01/18/2020	ND					

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 131 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u>		P.O. #:		ANALYSIS REQUEST			
Project Manager: <u>Jeffrey Brown</u>		Company:					
Address:		Attn:					
City: <u>Hobbs</u>		Address:					
State: <u>NM</u> Zip: <u>88240</u>		City:					
Phone #:		State:					
Fax #:		Zip:					
Project #:		Project Owner:					
Project Name:		Phone #:					
Project Location: <u>Red Lake 38th St Battery</u>		Fax #:					
Sampler Name: <u>Joe Quaschnick Jr.</u>							

FOR LAB USE ONLY		BILL TO					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	
				GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: (ICE) COOL OTHER :	DATE	TIME
<u>H00014D</u>							
1	B1 071 32.8024315	C	1	✓		Jan 15	12:07
	-104.183 7918						
2	B2 071 32.8024366	C	1	✓		Jan 15	12:09
	-104.1837014						
3	B1 32.8024388	C	1	✓		Jan 15	12:11
	-104.1837919						
4	B2 32.8024434	C	1	✓		Jan 15	12:13
	-104.1834973						
5	B3 32.8024543	C	1	✓		Jan 15	12:17
	-104.1834594						

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C <u>4.3</u>	Corrected Temp. °C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>JS</u>	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C Corrected Temp. °C
Refrindished By: <u>Joe Quaschnick Jr.</u>	Date: <u>Jan 15 2000</u>	Received By: <u>Joe Quaschnick Jr.</u>	Date: <u>Jan 15 2000</u>	Time: <u>15:20</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	REMARKS: All Results are emailed. Please provide Email address:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



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

January 29, 2020

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: RED LAKE 28 ST K BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/22/20 15:49.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

February 13, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: RED LAKE 28 ST K BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/11/20 7:32.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	02/11/2020	Sampling Date:	02/10/2020
Reported:	02/13/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Mike Snyder
Project Location:	NOT GIVEN		

Sample ID: W 1 @ 7' 32.8024557-104.1837865 (H000402-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2020	ND	1.90	95.2	2.00	11.8	
Toluene*	<0.050	0.050	02/12/2020	ND	1.97	98.3	2.00	12.7	
Ethylbenzene*	<0.050	0.050	02/12/2020	ND	1.99	99.5	2.00	11.5	
Total Xylenes*	<0.150	0.150	02/12/2020	ND	5.79	96.5	6.00	11.7	
Total BTX	<0.300	0.300	02/12/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 86.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

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

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	01/22/2020	Sampling Date:	01/22/2020
Reported:	01/29/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: WALL 1 (H000224-01)

BTEX 8021B		mg/ kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2020	ND	1.83	91.3	2.00	16.5	
Toluene*	<0.050	0.050	01/27/2020	ND	1.78	89.1	2.00	17.3	
Ethylbenzene*	<0.050	0.050	01/27/2020	ND	1.77	88.7	2.00	17.2	GC-NC
Total Xylenes*	0.234	0.150	01/27/2020	ND	5.22	87.0	6.00	17.3	
Total BTEX	<0.300	0.300	01/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 162 % 73.3-129

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	46.7	10.0	01/24/2020	ND	205	103	200	2.32	
DRO >C10-C28*	1060	10.0	01/24/2020	ND	216	108	200	2.60	
EXT DRO >C28-C36	217	10.0	01/24/2020	ND					

Surrogate: 1-Chlorooctane 69.8 % 41-142

Surrogate: 1-Chlorooctadecane 80.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

June 28, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: RED LAKE 28 ST K BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/22/21 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
JEFFREY BROOM
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ SURFACE (H211625-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/25/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/25/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/25/2021	ND	5.62	93.7	6.00	4.69		
Total BTEX	<0.300	0.300	06/25/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	9100	50.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	3140	50.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 97.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 443 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H211625-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	1010	10.0	06/25/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	391	10.0	06/25/2021	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 164 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 2' (H211625-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	62.9	10.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	12.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.6 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ SURFACE (H211625-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/25/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/25/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/25/2021	ND	5.62	93.7	6.00	4.69		
Total BTEX	<0.300	0.300	06/25/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	9690	50.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	3070	50.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 586 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 1' (H211625-05)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	5.73	
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69	
Total BTX	<0.300	0.300	06/24/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/24/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	71.2	50.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	6210	50.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	1580	50.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 368 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 2' (H211625-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69		
Total BTEX	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	2810	50.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	813	50.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 93.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 389 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ SURFACE (H211625-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2021	ND	1.98	99.1	2.00	5.73	
Toluene*	<0.050	0.050	06/25/2021	ND	1.92	95.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	06/25/2021	ND	1.85	92.5	2.00	4.95	
Total Xylenes*	<0.150	0.150	06/25/2021	ND	5.62	93.7	6.00	4.69	
Total BTEX	<0.300	0.300	06/25/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	1830	10.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	763	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 69.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 126 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H211625-08)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69		
Total BTX	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	1900	50.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	749	50.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 147 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 2' (H211625-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	281	10.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	96.4	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 86.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 111 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ SURFACE (H211625-10)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69		
Total BTX	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/24/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 78.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.5 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 1' (H211625-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/25/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.6 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 2' (H211625-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/25/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.2 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ SURFACE (H211625-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEX	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/25/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	38.6	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	17.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.9 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
JEFFREY BROOM
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 1' (H211625-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/25/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	36.8	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	19.9	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 84.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.1 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 2' (H211625-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/25/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	596	50.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	346	50.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 76.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ SURFACE (H211625-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/25/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	2130	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	1070	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 78.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 120 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 1' (H211625-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/25/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	12.5	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	12.5	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.0 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 2' (H211625-18)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEx	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/25/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 73.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.0 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ SURFACE (H211625-19)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/25/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	34.3	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 74.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.9 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 1' (H211625-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEx	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/25/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 77.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.5 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 2' (H211625-21)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/25/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	841	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	370	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 72.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.5 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 4 BGS 1-4' (H211625-22)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/25/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 74.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.7 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 5 BGS 1-4' (H211625-23)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	06/25/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	477	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	139	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 77.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.9 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 1 (H211625-24)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEX	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/25/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	892	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	260	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 70.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.2 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 2 (H211625-25)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/25/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	1110	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	309	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 63.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.5 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 3 (H211625-26)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/25/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	1130	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	331	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 72.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.8 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 4 (H211625-27)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEX	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/25/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	171	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	52.6	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 78.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.3 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 5 (H211625-28)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEX	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/25/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	817	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	373	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.1 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 6 (H211625-29)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEX	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/25/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	462	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	190	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 73.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.7 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 7 (H211625-30)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEx	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/25/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	0.225	QM-07
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 78.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.1 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 8 (H211625-31)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37		
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63		
Total BTEX	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/25/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	75.4	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	12.7	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 80.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.9 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 9 (H211625-32)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2021	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32	
Total BTEX	<0.300	0.300	06/24/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	178	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	67.4	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.2 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 10 (H211625-33)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2021	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32	
Total BTEX	<0.300	0.300	06/24/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/25/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 72.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.3 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 11 (H211625-34)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2021	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32	
Total BTEX	<0.300	0.300	06/24/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/25/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 76.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.2 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
JEFFREY BROOM
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 12 (H211625-35)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2021	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32	
Total BTEX	<0.300	0.300	06/24/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/25/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	10.9	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.0 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: NW (H211625-36)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.96	98.0	2.00	2.21		
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32		
Total BTEx	<0.300	0.300	06/24/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/25/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 78.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.1 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SW (H211625-37)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.96	98.0	2.00	2.21		
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32		
Total BTEX	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/25/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 72.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.1 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: WW (H211625-38)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2021	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32	
Total BTEx	<0.300	0.300	06/24/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/25/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 73.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.4 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: EW (H211625-39)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2021	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32	
Total BTEX	<0.300	0.300	06/24/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/25/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.9 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: APACHE				BILL TO				ANALYSIS REQUEST					
Project Manager: Jeff Brown				P.O. #:									
Address:				Company:									
City: Hobbs				Attn:									
State: NM				Address:									
Phone #: 505				City:									
Fax #: 505				State:									
Project #: 1000000000				Zip:									
Project Name: Rock Lake 88 State & Bchery				Phone #:									
Project Location: San Juan Co				Fax #:									
Sample Name: San Juan Co													
FOR LAB USE ONLY													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP		# CONTAINERS		MATRIX		PRESERV		SAMPLING	
				GROUNDWATER				WASTEWATER					
				SOIL				OIL					
				SLUDGE				OTHER :					
				ACID/BASE:				ICE COOL					
				OTHER :									
				DATE		TIME							
H211625		SP3 @ Surface		6/22/10		1:04		1		Ext TPH		1	
1		SP3 @ 1'		1:08		1:08		1		1		1	
2		SP3 @ 2'		1:10		1:10		1		1		1	
3		SP7 @ Surface		1:12		1:14		1		1		1	
4		SP7 @ 1'		1:14		1:14		1		1		1	
5		SP7 @ 2'		1:16		1:16		1		1		1	
6		SP2 @ Surface		2:00		2:00		1		1		1	
7		SP2 @ 1'		2:02		2:02		1		1		1	
8		SP2 @ 2'		2:04		2:04		1		1		1	
9		SP4 @ Surface		2:06		2:06		1		1		1	
10		SP4 @ 1'		2:08		2:08		1		1		1	
11		SP4 @ 2'		2:10		2:10		1		1		1	
12		SP4 @ 3'		2:12		2:12		1		1		1	
13		SP4 @ 4'		2:14		2:14		1		1		1	
14		SP4 @ 5'		2:16		2:16		1		1		1	
15		SP4 @ 6'		2:18		2:18		1		1		1	
16		SP4 @ 7'		2:20		2:20		1		1		1	
17		SP4 @ 8'		2:22		2:22		1		1		1	
18		SP4 @ 9'		2:24		2:24		1		1		1	
19		SP4 @ 10'		2:26		2:26		1		1		1	
20		SP4 @ 11'		2:28		2:28		1		1		1	
21		SP4 @ 12'		2:30		2:30		1		1		1	
22		SP4 @ 13'		2:32		2:32		1		1		1	
23		SP4 @ 14'		2:34		2:34		1		1		1	
24		SP4 @ 15'		2:36		2:36		1		1		1	
25		SP4 @ 16'		2:38		2:38		1		1		1	
26		SP4 @ 17'		2:40		2:40		1		1		1	
27		SP4 @ 18'		2:42		2:42		1		1		1	
28		SP4 @ 19'		2:44		2:44		1		1		1	
29		SP4 @ 20'		2:46		2:46		1		1		1	
30		SP4 @ 21'		2:48		2:48		1		1		1	
31		SP4 @ 22'		2:50		2:50		1		1		1	
32		SP4 @ 23'		2:52		2:52		1		1		1	
33		SP4 @ 24'		2:54		2:54		1		1		1	
34		SP4 @ 25'		2:56		2:56		1		1		1	
35		SP4 @ 26'		2:58		2:58		1		1		1	
36		SP4 @ 27'		3:00		3:00		1		1		1	
37		SP4 @ 28'		3:02		3:02		1		1		1	
38		SP4 @ 29'		3:04		3:04		1		1		1	
39		SP4 @ 30'		3:06		3:06		1		1		1	
40		SP4 @ 31'		3:08		3:08		1		1		1	
41		SP4 @ 32'		3:10		3:10		1		1		1	
42		SP4 @ 33'		3:12		3:12		1		1		1	
43		SP4 @ 34'		3:14		3:14		1		1		1	
44		SP4 @ 35'		3:16		3:16		1		1		1	
45		SP4 @ 36'		3:18		3:18		1		1		1	
46		SP4 @ 37'		3:20		3:20		1		1		1	
47		SP4 @ 38'		3:22		3:22		1		1		1	
48		SP4 @ 39'		3:24		3:24		1		1		1	
49		SP4 @ 40'		3:26		3:26		1		1		1	
50		SP4 @ 41'		3:28		3:28		1		1		1	
51		SP4 @ 42'		3:30		3:30		1		1		1	
52		SP4 @ 43'		3:32		3:32		1		1		1	
53		SP4 @ 44'		3:34		3:34		1		1		1	
54		SP4 @ 45'		3:36		3:36		1		1		1	
55		SP4 @ 46'		3:38		3:38		1		1		1	
56		SP4 @ 47'		3:40		3:40		1		1		1	
57		SP4 @ 48'		3:42		3:42		1		1		1	
58		SP4 @ 49'		3:44		3:44		1		1		1	
59		SP4 @ 50'		3:46		3:46		1		1		1	
60		SP4 @ 51'		3:48		3:48		1		1		1	
61		SP4 @ 52'		3:50		3:50		1		1		1	
62		SP4 @ 53'		3:52		3:52		1		1		1	
63		SP4 @ 54'		3:54		3:54		1		1		1	
64		SP4 @ 55'		3:56		3:56		1		1		1	
65		SP4 @ 56'		3:58		3:58		1		1		1	
66		SP4 @ 57'		4:00		4:00		1		1		1	
67		SP4 @ 58'		4:02		4:02		1		1		1	
68		SP4 @ 59'		4:04		4:04		1		1		1	
69		SP4 @ 60'		4:06		4:06		1		1		1	
70		SP4 @ 61'		4:08		4:08		1		1		1	
71		SP4 @ 62'		4:10		4:10		1		1		1	
72		SP4 @ 63'		4:12		4:12		1		1		1	
73		SP4 @ 64'		4:14		4:14		1		1		1	
74		SP4 @ 65'		4:16		4:16		1		1		1	
75		SP4 @ 66'		4:18		4:18		1		1		1	
76		SP4 @ 67'		4:20		4:20		1		1		1	
77		SP4 @ 68'		4:22		4:22		1		1		1	
78		SP4 @ 69'		4:24		4:24		1		1		1	
79		SP4 @ 70'		4:26		4:26		1		1		1	
80		SP4 @ 71'		4:28		4:28		1		1		1	
81		SP4 @ 72'		4:30		4:30		1		1		1	
82		SP4 @ 73'		4:32		4:32		1		1		1	
83		SP4 @ 74'		4:34		4:34		1		1		1	
84		SP4 @ 75'		4:36		4:36		1		1		1	
85		SP4 @ 76'		4:38		4:38		1		1		1	
86		SP4 @ 77'		4:40		4:40		1		1		1	
87		SP4 @ 78'		4:42		4:42		1		1		1	
88		SP4 @ 79'		4:44		4:44		1		1		1	
89		SP4 @ 80'		4:46		4:46		1		1		1	
90		SP4 @ 81'		4:48		4:48		1		1		1	
91		SP4 @ 82'		4:50		4:50		1		1		1	
92		SP4 @ 83'		4:52		4:52		1		1		1	
93		SP4 @ 84'		4:54		4:54		1		1		1	
94		SP4 @ 85'		4:56		4:56		1		1		1	
95		SP4 @ 86'		4:58		4:58		1		1		1	
96		SP4 @ 87'		5:00		5:00		1		1		1	
97		SP4 @ 88'		5:02		5:02		1		1		1	
98		SP4 @ 89'		5:04		5:04		1		1		1	
99		SP4 @ 90'		5:06		5:06		1		1		1	
100		SP4 @ 91'		5:08		5:08		1		1		1	
101		SP4 @ 92'		5:10		5:10		1		1		1	
102		SP4 @ 93'		5:12		5:12		1		1		1	
103		SP4 @ 94'		5:14		5:14		1		1		1	
104		SP4 @ 95'		5:16		5:16		1</					



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apacel		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Jeff Brown		Company:					
Address:		Attn:					
City: Jobbs		Address:					
State: NE		City:					
Zip: 88240		State:					
Phone #:		Fax #:					
Project #:		Project Owner:					
Project Name:		State:					
Project Location: Red Lake State & Battery		Phone #:					
Sample Name: Red Lake State & Battery		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING	
Lab I.D.		(G)RAB OR (G)OMP.		# CONTAINERS			
Sample I.D.		GROUNDWATER		WASTEWATER			
		SOIL		OIL			
		SLUDGE		OTHER :			
		ACID/BASE:		ICE / COOL			
		OTHER :		DATE		TIME	
11		SP4 @ 1'		6/22		2:08	
12		SP4 @ 2'		6/22		2:10	
13		SP5 @ Surface		6/22		2:12	
14		SP5 @ 1'		6/22		2:14	
15		SP5 @ 2'		6/22		2:16	
16		SP6 @ Surface		6/22		2:18	
17		SP6 @ 1'		6/22		2:20	
18		SP6 @ 2'		6/22		2:22	
19		SP8 @ Surface		6/22		2:24	
20		SP8 @ 1'		6/22		2:26	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services provided by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:			
Relinquished By: Jeff Brown		Date: 6/22/21		Received By: Jeff Brown			
Time: 15:50		Date: 6/22/21		Received By: Jeff Brown			
Time: 15:50		Date: 6/22/21		Received By: Jeff Brown			
Delivered By: (Circle One) UPS		Observed Temp. °C 54		Corrected Temp. °C 54			
Sample Condition <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact		CHECKED BY: JE		Turnaround Time: Standard			
<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No			
Thermometer ID #113		Correction Factor None		Bacteria (only) <input checked="" type="checkbox"/> Sample Condition			
<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No			
Corrected Temp. °C		Observed Temp. °C		Sample Condition			



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Pacific						BILL TO		ANALYSIS REQUEST	
Project Manager: Jeff Brown						P.O. #:			
Address:						Company:			
City: Mobbs						Attn:			
State: UT Zip: 84240						Address:			
Phone #:						City:			
Project #:						State:		Zip:	
Project Owner:						Phone #:			
Project Location: Rudman at State & Battery						Fax #:			
Sampler Name: Michael Salsbery						Matrix:			
FOR LAB USE ONLY						PRESERV.		SAMPLING	
Lab I.D.						(G)RAB OR (C)OHR			
Sample I.D.						# CONTAINERS			
						GROUNDWATER			
						WASTEWATER			
						SOIL			
						OIL			
						SLUDGE			
						OTHER :			
						ACID/BASE:			
						(ICE) COOL			
						OTHER :			
						DATE		TIME	
H-211625						6/22		2:28	
21 SPK @ 1'						X		X	
22 WY BGS 1-4'						X		X	
23 WY BGS 1-4'						X		X	
24 B1						X		X	
25 B2						X		X	
26 B3						X		X	
27 B4						X		X	
28 B5						X		X	
29 B6						X		X	
30 B7						X		X	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether lodged in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors trading or, or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: _____		Date: 6/22/11	Received By: _____	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Retained By: _____		Date: 6/22/11	Received By: _____	All Results are emailed. Please provide Email address:	
REMARKS:					
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>					
Thermometer ID #113		Bacteria (only)		Sample Condition	
Correction Factor None		<input type="checkbox"/> Cool <input type="checkbox"/> Intact		<input type="checkbox"/> Cool <input type="checkbox"/> Intact	
		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
				Observed Temp. °C	
				Corrected Temp. °C	



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apacul</u>		P.O. #:		BILL TO				ANALYSIS REQUEST					
Project Manager: <u>Jeff Brown</u>		Company:											
Address:		Attn:		State: <u>NM</u> Zip: <u>88240</u>		City:		Address:		State:		Zip:	
City: <u>Hobbs</u>		Fax #:		Project Owner:		Project Location: <u>Red Lake State V Bat</u>		Project Name:		Project Name:		Project Name:	
Phone #:		Project #:		Project Location:		Sample Name: <u>Joe Cussler Jr.</u>		Project Location:		Project Location:		Project Location:	
FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY	
Lab I.D.		Sample I.D.		(G) RAB OR (C) OMI		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL	
31 B8		32 B9		33 B10		34 B11		35 B12		36 B13		37 B14	
38 B15		39 B16		31 B8		32 B9		33 B10		34 B11		35 B12	
36 B13		37 B14		38 B15		39 B16		31 B8		32 B9		33 B10	
34 B11		35 B12		36 B13		37 B14		38 B15		39 B16		31 B8	
32 B9		33 B10		34 B11		35 B12		36 B13		37 B14		38 B15	
31 B8		32 B9		33 B10		34 B11		35 B12		36 B13		37 B14	
30 B7		31 B8		32 B9		33 B10		34 B11		35 B12		36 B13	
29 B6		30 B7		31 B8		32 B9		33 B10		34 B11		35 B12	
28 B5		29 B6		30 B7		31 B8		32 B9		33 B10		34 B11	
27 B4		28 B5		29 B6		30 B7		31 B8		32 B9		33 B10	
26 B3		27 B4		28 B5		29 B6		30 B7		31 B8		32 B9	
25 B2		26 B3		27 B4		28 B5		29 B6		30 B7		31 B8	
24 B1		25 B2		26 B3		27 B4		28 B5		29 B6		30 B7	
23 B0		24 B1		25 B2		26 B3		27 B4		28 B5		29 B6	
22 B9		23 B0		24 B1		25 B2		26 B3		27 B4		28 B5	
21 B8		22 B9		23 B0		24 B1		25 B2		26 B3		27 B4	
20 B7		21 B8		22 B9		23 B0		24 B1		25 B2		26 B3	
19 B6		20 B7		21 B8		22 B9		23 B0		24 B1		25 B2	
18 B5		19 B6		20 B7		21 B8		22 B9		23 B0		24 B1	
17 B4		18 B5		19 B6		20 B7		21 B8		22 B9		23 B0	
16 B3		17 B4		18 B5		19 B6		20 B7		21 B8		22 B9	
15 B2		16 B3		17 B4		18 B5		19 B6		20 B7		21 B8	
14 B1		15 B2		16 B3		17 B4		18 B5		19 B6		20 B7	
13 B0		14 B1		15 B2		16 B3		17 B4		18 B5		19 B6	
12 B9		13 B0		14 B1		15 B2		16 B3		17 B4		18 B5	
11 B8		12 B9		13 B0		14 B1		15 B2		16 B3		17 B4	
10 B7		11 B8		12 B9		13 B0		14 B1		15 B2		16 B3	
9 B6		10 B7		11 B8		12 B9		13 B0		14 B1		15 B2	
8 B5		9 B6		10 B7		11 B8		12 B9		13 B0		14 B1	
7 B4		8 B5		9 B6		10 B7		11 B8		12 B9		13 B0	
6 B3		7 B4		8 B5		9 B6		10 B7		11 B8		12 B9	
5 B2		6 B3		7 B4		8 B5		9 B6		10 B7		11 B8	
4 B1		5 B2		6 B3		7 B4		8 B5		9 B6		10 B7	
3 B0		4 B1		5 B2		6 B3		7 B4		8 B5		9 B6	
2 B9		3 B0		4 B1		5 B2		6 B3		7 B4		8 B5	
1 B8		2 B9		3 B0		4 B1		5 B2		6 B3		7 B4	
0 B7		1 B8		2 B9		3 B0		4 B1		5 B2		6 B3	
31 B8		32 B9		33 B10		34 B11		35 B12		36 B13		37 B14	
30 B7		31 B8		32 B9		33 B10		34 B11		35 B12		36 B13	
29 B6		30 B7		31 B8		32 B9		33 B10		34 B11		35 B12	
28 B5		29 B6		30 B7		31 B8		32 B9		33 B10		34 B11	
27 B4		28 B5		29 B6		30 B7		31 B8		32 B9		33 B10	
26 B3		27 B4		28 B5		29 B6		30 B7		31 B8		32 B9	
25 B2		26 B3		27 B4		28 B5		29 B6		30 B7		31 B8	
24 B1		25 B2		26 B3		27 B4		28 B5		29 B6		30 B7	
23 B0		24 B1		25 B2		26 B3		27 B4		28 B5		29 B6	
22 B9		23 B0		24 B1		25 B2		26 B3		27 B4		28 B5	
21 B8		22 B9		23 B0		24 B1		25 B2		26 B3		27 B4	
20 B7		21 B8		22 B9		23 B0		24 B1		25 B2		26 B3	
19 B6		20 B7		21 B8		22 B9		23 B0		24 B1		25 B2	
18 B5		19 B6		20 B7		21 B8		22 B9		23 B0		24 B1	
17 B4		18 B5		19 B6		20 B7		21 B8		22 B9		23 B0	
16 B3		17 B4		18 B5		19 B6		20 B7		21 B8		22 B9	
15 B2		16 B3		17 B4		18 B5		19 B6		20 B7		21 B8	
14 B1		15 B2		16 B3		17 B4		18 B5		19 B6		20 B7	
13 B0		14 B1		15 B2		16 B3		17 B4		18 B5		19 B6	
12 B9		13 B0		14 B1		15 B2		16 B3		17 B4		18 B5	
11 B8		12 B9		13 B0		14 B1		15 B2		16 B3		17 B4	
10 B7		11 B8		12 B9		13 B0		14 B1		15 B2		16 B3	
9 B6		10 B7		11 B8		12 B9		13 B0		14 B1		15 B2	
8 B5		9 B6		10 B7		11 B8		12 B9		13 B0		14 B1	
7 B4		8 B5		9 B6		10 B7		11 B8		12 B9		13 B0	
6 B3		7 B4		8 B5		9 B6		10 B7		11 B8		12 B9	
5 B2		6 B3		7 B4		8 B5		9 B6		10 B7		11 B8	
4 B1		5 B2		6 B3		7 B4		8 B5		9 B6		10 B7	
3 B0		4 B1		5 B2		6 B3		7 B4		8 B5		9 B6	
2 B9		3 B0		4 B1		5 B2		6 B3		7 B4		8 B5	
1 B8		2 B9		3 B0		4 B1		5 B2		6 B3		7 B4	
0 B7		1 B8		2 B9		3 B0		4 B1		5 B2		6 B3	
31 B8		32 B9		33 B10		34 B11		35 B12		36 B13		37 B14	
30 B7		31 B8		32 B9		33 B10		34 B11		35 B12		36 B13	
29 B6		30 B7		31 B8		32 B9		33 B10		34 B11		35 B12	
28 B5		29 B6		30 B7		31 B8		32 B9		33 B10		34 B11	
27 B4		28 B5		29 B6		30 B7		31 B8		32 B9		33 B10	
26 B3		27 B4		28 B5		29 B6		30 B7		31 B8		32 B9	
25 B2		26 B3		27 B4		28 B5		29 B6		30 B7		31 B8	
24 B1		25 B2		26 B3		27 B4		28 B5		29 B6		30 B7	
23 B0		24 B1		25 B2		26 B3		27 B4		28 B5		29 B6	
22 B9		23 B0		24 B1		25 B2		26 B3		27 B4		28 B5	
21 B8		22 B9		23 B0		24 B1		25 B2		26 B3		27 B4	
20 B7		21 B8		22 B9		23 B0		24 B1		25 B2		26 B3	
19 B6		20 B7		21 B8		22 B9		23 B0		24 B1		25 B2	
18 B5		19 B6		20 B7		21 B8		22 B9		23 B0		24 B1	
17 B4		18 B5		19 B6		20 B7		21 B8		22 B9		23 B0	
16 B3		17 B4		18 B5		19 B6		20 B7		21 B8		22 B9	
15 B2		16 B3		17 B4		18 B5		19 B6		20 B7		21 B8	
14 B1		15 B2		16 B3		17 B4		18 B5		19 B6		20 B7	
13 B0		14 B1		15 B2		16 B3		17 B4		18 B5		19 B6	
12 B9		13 B0		14 B1		15 B2		16 B3		17 B4		18 B5	
11 B8		12 B9		13 B0		14 B1		15 B2		16 B3		17 B4	
10 B7		11 B8		12 B9		13 B0		14 B1		15 B2		16 B3	
9 B6		10 B7		11 B8		12 B9		13 B0		14 B1		15 B2	
8 B5		9 B6		10 B7		11 B8		12 B9		13 B0		14 B1	
7 B4		8 B5		9 B6		10 B7		11 B8		12 B9		13 B0	
6 B3		7 B4		8 B5		9 B6		10 B7		11 B8		12 B9	
5 B2		6 B3		7 B4		8 B5		9 B6		10 B7		11 B8	
4 B1		5 B2		6 B3		7 B4		8 B5		9 B6		10 B7	
3 B0		4 B1		5 B2		6 B3		7 B4		8 B5		9 B6	
2 B9		3 B0		4 B1		5 B2		6 B3		7 B4		8 B5	
1 B8		2 B9		3 B0		4 B1		5 B2		6 B3		7 B4	
0 B7		1 B8		2 B9		3 B0		4 B1		5 B2		6 B3	
31 B8		32 B9		33 B10		34 B11		35 B12		36 B13		37 B14	
30 B7		31 B8		32 B9		33 B10		34 B11		35 B12		36 B13	
29 B6		30 B7		31 B8		32 B9		33 B10		34 B11		35 B12	
28 B5		29 B6		30 B7		31 B8		32 B9		33 B10		34 B11	
27 B4		28 B5		29 B6		30 B7		31 B8		32 B9		33 B10	
26 B3		27 B4		28 B5		29 B6		30 B7		31 B8		32 B9	
25 B2		26 B3		27 B4		28 B5		29 B6		30 B7		31 B8	
24 B1		25 B2		26 B3		27 B4		28 B5		29 B6		30 B7	
23 B0		24 B1		25 B2		26 B3		27 B4		28 B5		29 B6	
22 B9		23 B0		24 B1		25 B2		26 B3		27 B4		28 B5	
21 B8		22 B9		23 B0		24 B1		25 B2		26 B3		27 B4	
20 B7		21 B8		22 B9		23 B0		24 B1		25 B2		26 B3	
19 B6		20 B7		21 B8		22 B9		23 B0		24 B1		25 B2	
18 B5		19 B6		20 B7		21 B8		22 B9		23 B0		24 B1	
17 B4		18 B5		19 B6		20 B7		21 B8		22 B9		23 B0	
16 B3		17 B4		18 B5		19 B6		20 B7		21 B8		22 B9	
15 B2		16 B3		17 B4		18 B5		19 B6		20 B7		21 B8	
14 B1		15 B2		16 B3		17 B4		18 B5		19 B6		20 B7	
13 B0		14 B1		15 B2		16 B3		17 B4		18 B5		19 B6	
12 B9		13 B0		14 B1		15 B2		16 B3		17 B4		18 B5	
11 B8		12 B9		13 B0		14 B1		15 B2		16 B3		17 B4	
10 B7		11 B8		12 B9		13 B0		14 B1		15 B2		16 B3	
9 B6		10 B7		11 B8		12 B9		13 B0		14 B1		15 B2	
8 B5		9 B6		10 B7		11 B8		12 B9		13 B0		14 B1	
7 B4		8 B5		9 B6		10 B7		11 B8		12 B9		13 B0	
6 B3		7 B4		8 B5		9 B6		10 B7		11 B8		12 B9	
5 B2		6 B3		7 B4		8 B5		9 B6		10 B7		11 B8	
4 B1		5 B2		6 B3		7 B4		8 B5		9 B6		10 B7	
3 B0		4 B1		5 B2		6 B3		7 B4		8 B5		9 B6	
2 B9		3 B0		4 B1		5 B2		6 B3		7 B4		8 B5	
1 B8		2 B9		3 B0		4 B1		5 B2		6 B3		7 B4	
0 B7		1 B8		2 B9		3 B0							



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

July 07, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: RED LAKE 28 ST K BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/06/21 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	07/06/2021	Sampling Date:	07/06/2021
Reported:	07/07/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	RED LAKE 28 K STATE BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 5 (H211734-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2021	ND	2.08	104	2.00	5.81	
Toluene*	<0.050	0.050	07/07/2021	ND	2.21	111	2.00	8.03	
Ethylbenzene*	<0.050	0.050	07/07/2021	ND	2.11	105	2.00	7.44	
Total Xylenes*	<0.150	0.150	07/07/2021	ND	6.27	104	6.00	8.42	
Total BTEX	<0.300	0.300	07/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2021	ND	199	99.6	200	1.73	
DRO >C10-C28*	206	10.0	07/07/2021	ND	215	107	200	2.21	
EXT DRO >C28-C36	51.6	10.0	07/07/2021	ND					

Surrogate: 1-Chlorooctane 91.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 111 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	07/06/2021	Sampling Date:	07/06/2021
Reported:	07/07/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	RED LAKE 28 K STATE BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 3' (H211734-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2021	ND	2.08	104	2.00	5.81	
Toluene*	<0.050	0.050	07/07/2021	ND	2.21	111	2.00	8.03	
Ethylbenzene*	<0.050	0.050	07/07/2021	ND	2.11	105	2.00	7.44	
Total Xylenes*	<0.150	0.150	07/07/2021	ND	6.27	104	6.00	8.42	
Total BTEx	<0.300	0.300	07/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2021	ND	199	99.6	200	1.73	
DRO >C10-C28*	<10.0	10.0	07/07/2021	ND	215	107	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/07/2021	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.5 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

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

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

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

Celey D. Keene, Lab Director/Quality Manager

**BILL TO**

ANALYSIS REQUEST

[illegible]



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

July 13, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: RED LAKE 28 ST K BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/07/21 17:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS NM, 88240Project: RED LAKE 28 ST K BATTERY
Project Number: NONE GIVEN
Project Manager: JEFFREY BROOM
Fax To: (575) 393-2432Reported:
13-Jul-21 11:29

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NW	H211763-01	Soil	07-Jul-21 15:30	07-Jul-21 17:00
SW	H211763-02	Soil	07-Jul-21 15:32	07-Jul-21 17:00
EW	H211763-03	Soil	07-Jul-21 15:34	07-Jul-21 17:00
WW	H211763-04	Soil	07-Jul-21 15:36	07-Jul-21 17:00
B 9 @ 3'	H211763-05	Soil	07-Jul-21 15:38	07-Jul-21 17:00
B 10 @ 3'	H211763-06	Soil	07-Jul-21 15:40	07-Jul-21 17:00
B 11 @ 3'	H211763-07	Soil	07-Jul-21 15:42	07-Jul-21 17:00
B 12 @ 3'	H211763-08	Soil	07-Jul-21 15:44	07-Jul-21 17:00

07/13/21 - Client added Chlorides to all samples. This is the revised report and will replace the one sent on 07/08/21.

Cardinal Laboratories

*=Accredited Analyte

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

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: RED LAKE 28 ST K BATTERY
Project Number: NONE GIVEN
Project Manager: JEFFREY BROOM
Fax To: (575) 393-2432

Reported:
13-Jul-21 11:29

NW
H211763-01 (Soil)

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140 1070707 MS 08-Jul-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	

Surrogate: 1-Chlorooctane 105 % 44.3-133 1070806 MS 08-Jul-21 8015B

Surrogate: 1-Chlorooctadecane 102 % 38.9-142 1070806 MS 08-Jul-21 8015B

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: RED LAKE 28 ST K BATTERY
Project Number: NONE GIVEN
Project Manager: JEFFREY BROOM
Fax To: (575) 393-2432

Reported:
13-Jul-21 11:29

SW
H211763-02 (Soil)

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			116 %		69.9-140	1070707	MS	08-Jul-21	8021B	
---------------------------------------	--	--	-------	--	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	

Surrogate: 1-Chlorooctane			94.5 %		44.3-133	1070806	MS	08-Jul-21	8015B	
---------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			91.4 %		38.9-142	1070806	MS	08-Jul-21	8015B	
-------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: RED LAKE 28 ST K BATTERY
Project Number: NONE GIVEN
Project Manager: JEFFREY BROOM
Fax To: (575) 393-2432

Reported:
13-Jul-21 11:29

EW**H211763-03 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	113 %	69.9-140	1070707	MS	08-Jul-21	8021B	
---------------------------------------	-------	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	

Surrogate: 1-Chlorooctane	95.6 %	44.3-133	1070806	MS	08-Jul-21	8015B	
---------------------------	--------	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane	93.7 %	38.9-142	1070806	MS	08-Jul-21	8015B	
-------------------------------	--------	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: RED LAKE 28 ST K BATTERY
Project Number: NONE GIVEN
Project Manager: JEFFREY BROOM
Fax To: (575) 393-2432

Reported:
13-Jul-21 11:29

WW**H211763-04 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	115 %	69.9-140	1070707	MS	08-Jul-21	8021B	
---------------------------------------	-------	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	

Surrogate: 1-Chlorooctane	98.2 %	44.3-133	1070806	MS	08-Jul-21	8015B	
---------------------------	--------	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane	94.6 %	38.9-142	1070806	MS	08-Jul-21	8015B	
-------------------------------	--------	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: RED LAKE 28 ST K BATTERY
Project Number: NONE GIVEN
Project Manager: JEFFREY BROOM
Fax To: (575) 393-2432

Reported:
13-Jul-21 11:29

B 9 @ 3'
H211763-05 (Soil)

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140 1070707 MS 08-Jul-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	

Surrogate: 1-Chlorooctane 94.5 % 44.3-133 1070806 MS 08-Jul-21 8015B

Surrogate: 1-Chlorooctadecane 90.9 % 38.9-142 1070806 MS 08-Jul-21 8015B

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: RED LAKE 28 ST K BATTERY
Project Number: NONE GIVEN
Project Manager: JEFFREY BROOM
Fax To: (575) 393-2432

Reported:
13-Jul-21 11:29

B 10 @ 3'
H211763-06 (Soil)

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	114 %	69.9-140	1070707	MS	08-Jul-21	8021B	
---------------------------------------	-------	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	

Surrogate: 1-Chlorooctane	102 %	44.3-133	1070806	MS	08-Jul-21	8015B	
---------------------------	-------	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane	99.0 %	38.9-142	1070806	MS	08-Jul-21	8015B	
-------------------------------	--------	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: RED LAKE 28 ST K BATTERY
Project Number: NONE GIVEN
Project Manager: JEFFREY BROOM
Fax To: (575) 393-2432

Reported:
13-Jul-21 11:29

B 11 @ 3'
H211763-07 (Soil)

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		115 %		69.9-140		1070707	MS	08-Jul-21	8021B	
---------------------------------------	--	-------	--	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	

Surrogate: 1-Chlorooctane		96.8 %		44.3-133		1070806	MS	08-Jul-21	8015B	
---------------------------	--	--------	--	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane		93.3 %		38.9-142		1070806	MS	08-Jul-21	8015B	
-------------------------------	--	--------	--	----------	--	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: RED LAKE 28 ST K BATTERY
Project Number: NONE GIVEN
Project Manager: JEFFREY BROOM
Fax To: (575) 393-2432

Reported:
13-Jul-21 11:29

B 12 @ 3'
H211763-08 (Soil)

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	114 %	69.9-140	1070707	MS	08-Jul-21	8021B	
---------------------------------------	-------	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	

Surrogate: 1-Chlorooctane	89.7 %	44.3-133	1070806	MS	08-Jul-21	8015B	
---------------------------	--------	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane	87.3 %	38.9-142	1070806	MS	08-Jul-21	8015B	
-------------------------------	--------	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: RED LAKE 28 ST K BATTERY
Project Number: NONE GIVEN
Project Manager: JEFFREY BROOM
Fax To: (575) 393-2432

Reported:
13-Jul-21 11:29

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1071311 - 1:4 DI Water									
Blank (1071311-BLK1)				Prepared & Analyzed: 13-Jul-21					
Chloride	ND	16.0	mg/kg						
LCS (1071311-BS1)				Prepared & Analyzed: 13-Jul-21					
Chloride	400	16.0	mg/kg	400		100	80-120		
LCS Dup (1071311-BSD1)				Prepared & Analyzed: 13-Jul-21					
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: RED LAKE 28 ST K BATTERY
Project Number: NONE GIVEN
Project Manager: JEFFREY BROOM
Fax To: (575) 393-2432

Reported:
13-Jul-21 11:29

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 1070707 - Volatiles**Blank (1070707-BLK1)**

Prepared: 07-Jul-21 Analyzed: 08-Jul-21

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)	0.0564		mg/kg	0.0500		113	69.9-140			

LCS (1070707-BS1)

Prepared: 07-Jul-21 Analyzed: 08-Jul-21

Benzene	1.99	0.050	mg/kg	2.00		99.4	89.9-120			
Toluene	1.94	0.050	mg/kg	2.00		96.8	90.8-117			
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.3	88.9-116			
m,p-Xylene	3.79	0.100	mg/kg	4.00		94.7	85.5-118			
o-Xylene	1.89	0.050	mg/kg	2.00		94.5	85.5-118			
Total Xylenes	5.68	0.150	mg/kg	6.00		94.6	85.5-118			
Surrogate: 4-Bromofluorobenzene (PID)	0.0546		mg/kg	0.0500		109	69.9-140			

LCS Dup (1070707-BSD1)

Prepared: 07-Jul-21 Analyzed: 08-Jul-21

Benzene	2.10	0.050	mg/kg	2.00		105	89.9-120	5.53	10.3	
Toluene	2.05	0.050	mg/kg	2.00		102	90.8-117	5.67	10.5	
Ethylbenzene	1.98	0.050	mg/kg	2.00		99.0	88.9-116	5.93	10.8	
m,p-Xylene	4.01	0.100	mg/kg	4.00		100	85.5-118	5.68	10.7	
o-Xylene	2.01	0.050	mg/kg	2.00		100	85.5-118	6.00	10.7	
Total Xylenes	6.02	0.150	mg/kg	6.00		100	85.5-118	5.79	10.7	
Surrogate: 4-Bromofluorobenzene (PID)	0.0559		mg/kg	0.0500		112	69.9-140			

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: RED LAKE 28 ST K BATTERY
Project Number: NONE GIVEN
Project Manager: JEFFREY BROOM
Fax To: (575) 393-2432

Reported:
13-Jul-21 11:29

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 1070806 - General Prep - Organics**Blank (1070806-BLK1)**

Prepared & Analyzed: 08-Jul-21

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	52.9		mg/kg	50.0		106	44.3-133			
Surrogate: 1-Chlorooctadecane	52.0		mg/kg	50.0		104	38.9-142			

LCS (1070806-BS1)

Prepared & Analyzed: 08-Jul-21

GRO C6-C10	216	10.0	mg/kg	200		108	83.4-129			
DRO >C10-C28	228	10.0	mg/kg	200		114	79.3-136			
Total TPH C6-C28	444	10.0	mg/kg	400		111	85.3-130			
Surrogate: 1-Chlorooctane	54.8		mg/kg	50.0		110	44.3-133			
Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	38.9-142			

LCS Dup (1070806-BSD1)

Prepared & Analyzed: 08-Jul-21

GRO C6-C10	213	10.0	mg/kg	200		106	83.4-129	1.34	12.6	
DRO >C10-C28	227	10.0	mg/kg	200		113	79.3-136	0.651	12.1	
Total TPH C6-C28	439	10.0	mg/kg	400		110	85.3-130	0.986	11.6	
Surrogate: 1-Chlorooctane	55.1		mg/kg	50.0		110	44.3-133			
Surrogate: 1-Chlorooctadecane	54.8		mg/kg	50.0		110	38.9-142			

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

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

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Agave

Project Manager: Jeff Brown

Address: Hobbs

City: Hobbs State: NM Zip: 88240

Phone #: Fax #:

Project #: Project Owner:

Project Name: State: Zip:

Project Location: Red Lake State in Bitter Lake

Sampler Name: Joe Casale Phone #: Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	(C) COOL	OTHER :	DATE	TIME	Ext TPH	BTEX	CI	ad
H21763	1 DU	C	1										7-17	3:30	X	X	<	
	2 SW	C	1											3:32	X	X	<	
	3 CU	C	1											3:34	X	X	<	
	4 DU	C	1											3:36	X	X	<	
	5 B403	C	1											3:38	X	X	<	
	6 B1023	C	1											3:40	X	X	<	
	7 B1103	C	1											3:42	X	X	<	
	8 B1203	C	1											3:44	X	X	<	

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Joe Casale Date: 7/17 Received By: Joe Casale

Relinquished By: Joe Casale Date: 7/17 Received By: Joe Casale

Time: 1:00 Date: 7/17 Received By: Joe Casale

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

Delivered By: (Circle One)

Observed Temp. °C 4.4

Sample Condition Cool Intact ☒ Yes ☐ No

CHECKED BY: (Initials) TC

Turnaround Time:

Standard RUSH

☒

Bacteria (only) Cool Intact ☐ Yes ☐ No

Sample Condition Observed Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

☐ Yes ☐ No

TC

Thermometer ID #113 Correction Factor None

FORM 1000 (Rev. 1/06/09) 2/0

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



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

July 14, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: RED LAKE 28 ST K BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/13/21 9:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	07/13/2021	Sampling Date:	07/12/2021
Reported:	07/14/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: WS BGS 1-8' (H211806-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2021	ND	2.12	106	2.00	1.58	
Toluene*	<0.050	0.050	07/13/2021	ND	2.04	102	2.00	1.50	
Ethylbenzene*	<0.050	0.050	07/13/2021	ND	1.97	98.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/13/2021	ND	6.02	100	6.00	1.55	
Total BTEX	<0.300	0.300	07/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2021	ND	212	106	200	2.71	
DRO >C10-C28*	<10.0	10.0	07/13/2021	ND	223	111	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	07/13/2021	ND					

Surrogate: 1-Chlorooctane 87.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.2 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

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

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

West Elevation

☀ 78°E (T) ● 32°48'8"N, 104°11'2"W ±147ft ▲ 3691ft



West Elevation

☉ 103°E (T) ☉ 32°48'9"N, 104°11'2"W ±16ft ▲ 3691ft



North East Elevation

☀ 246°SW (T) ● 32°48'9"N, 104°11'1"W ±13ft ▲ 3690ft



North East Elevation

☀ 220°SW (T) ● 32°48'9"N, 104°11'1"W ±13ft ▲ 3690ft



North West Elevation

☀ 118°SE (T) ☉ 32°48'8"N, 104°11'1"W ±13ft ▲ 3685ft



East Elevation

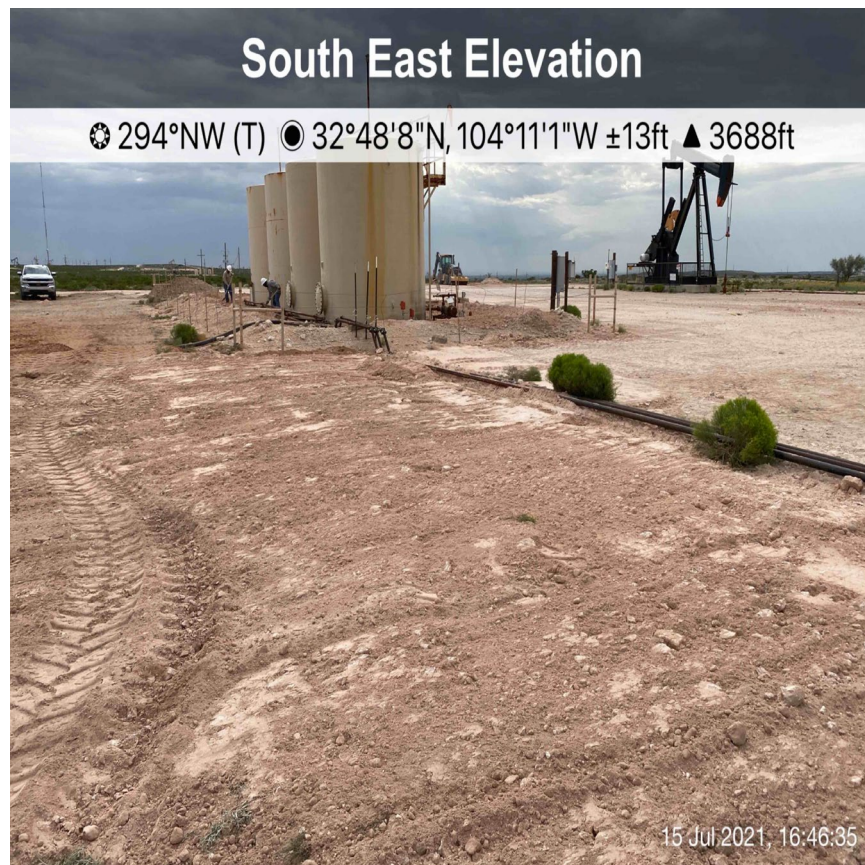
☀ 256°W (T) ☉ 32°48'8"N, 104°11'1"W ±13ft ▲ 3689ft

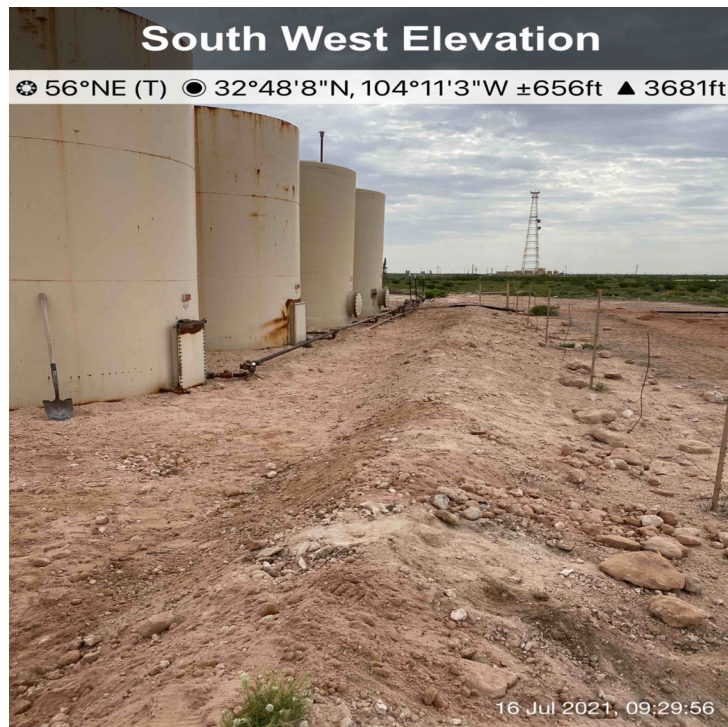


East Elevation

☀ 258°W (T) ☉ 32°48'8"N, 104°11'1"W ±13ft ▲ 3688ft









**Red Lake 28 K State Battery
2RP-3960, 2RP-3961
Revegetation
And
Noxious Weed Plan**

Revegetation Plan:

All the disturbed area in the pasture will be properly prepared and seeded with NMSLO Loamy seed mixture. The disturbed area will be monitored to ensure successful revegetation is achieved. If revegetation is not successful after a couple of growing seasons the site will be reseeded.

Noxious Weed Plan:

Apache Corporation will treat noxious weeds if they become established within the area of remediation. Weed control will be maintained on the disturbed land where noxious weeds exist both prior to remediation and restoration. Apache Corporation will consult with the Authorized Officer for acceptable weed control methods.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 404359

QUESTIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 404359
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1629941525
Incident Name	NAB1629941525 RED LAKE 28 K STATE #001 @ 30-015-33740
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-33740] RED LAKE 28 K STATE #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RED LAKE 28 K STATE #001
Date Release Discovered	10/04/2016
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Tank (Any) Crude Oil Released: 200 BBL Recovered: 170 BBL Lost: 30 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 404359

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 404359
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmental Tech Email: larry.baker@apachecorp.com Date: 11/18/2024
--	--

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 3

Action 404359

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airport Ln Midland, TX 79705	OGRID: 873
	Action Number: 404359
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	304
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1461
GRO+DRO (EPA SW-846 Method 8015M)	1461
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	01/01/2020
On what date will (or did) the final sampling or liner inspection occur	07/13/2021
On what date will (or was) the remediation complete(d)	07/15/2021
What is the estimated surface area (in square feet) that will be reclaimed	800
What is the estimated volume (in cubic yards) that will be reclaimed	89
What is the estimated surface area (in square feet) that will be remediated	2800
What is the estimated volume (in cubic yards) that will be remediated	192
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 4

Action 404359

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 404359
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	<i>Not answered.</i>
OR is the off-site disposal site, to be used, an NMED facility	<i>Not answered.</i>
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmental Tech Email: larry.baker@apachecorp.com Date: 11/18/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 5

Action 404359

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 404359
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 6

Action 404359

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 404359
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	404339
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/11/2021
What was the (estimated) number of samples that were to be gathered	25
What was the sampling surface area in square feet	2800

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2800
What was the total volume (cubic yards) remediated	192
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	800
What was the total volume (in cubic yards) reclaimed	89
Summarize any additional remediation activities not included by answers (above)	The release area was excavated, and all excavated soil was hauled to an OCD approved disposal facility. Laboratory analysis were below table one standards for releases greater than 100 feet. The pasture area has met the reclamation standards in the top 4 feet. The pad was backfilled with clean imported caliche. The pasture area was backfilled with clean imported topsoil and reseeded.

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

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

I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmentl Tech Email: larry.baker@apachecorp.com Date: 11/18/2024
--	---

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

QUESTIONS, Page 7

Action 404359

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 404359
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 404359

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 404359
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	12/5/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	12/5/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	12/5/2024