Page 1 of 89

Incident ID	NRM1931831123
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 OD	C District office must be notified 2 days prior to final sampling)					
Description of remediation activities						
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in					
Printed Name: Larry Baker	Title: Environmental Tech Sr. Staff					
Signature: Larry Baker email: larry.baker@apachecorp.com	Date: 6/15/2023					
email: larry.baker@apachecorp.com	Telephone: 432-818-1654					
OCD Only						
Received by: Robert Hamlet	Date: 11/27/2023					
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.					
Closure Approved by: Robert Hamlet	Date: 11/27/2023					
Printed Name: Robert Hamlet	Environmental Specialist - Advanced					



June 15, 2023

Re: EAU 47

Case # NRM1931831123

The OCD has requested further information for the variance request in Sec. 4 B Floor and Sec. 5 B Floor due to the opinion that the area gives the appearance of a legacy type of pit. Attached are the photos that provide evidence that it is historical impact not associated with this release. The TPH values in the pit would have meet closure requirements prior to the new rule publication in 2018.

Apache Corporation respectfully request closure with a variance for event nRM1931831123.

Submitted by.

Environmental Technician Sr Staff

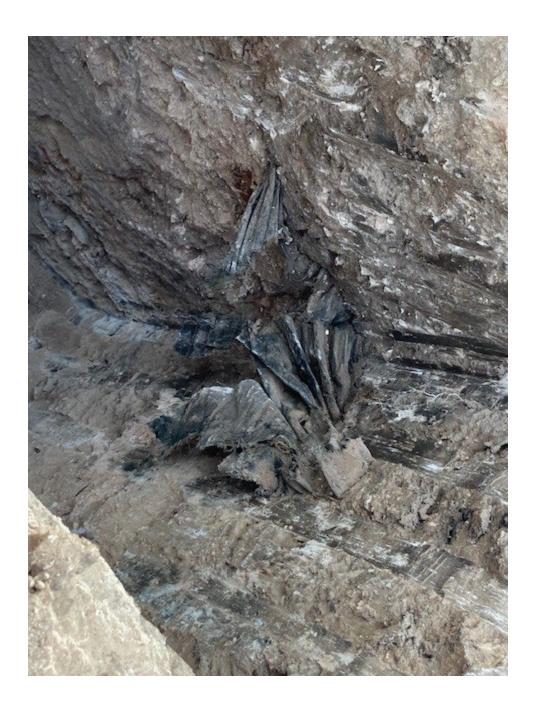
larry.baker@apachecorp.com

Cell# 432-215-2284 Off# 432-818-1000









Received by OCD: 6/15/2023 4:07:14 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

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.

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✓ 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)					
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Printed Name: Larry Baker	Title: Environmental Tech Sr. Staff				
Signature: Larry Baker email: larry.baker@apachecorp.com	Date: 6/15/2023				
email: larry.baker@apachecorp.com	Telephone: 432-818-1654				
OCD O. I					
OCD Only Received by:	Date:				
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.				
Closure Approved by:	Date:				
Printed Name:	Title:				



November 2, 2022

Re: EAU 47

Case # NRM1931831123

On 9/16/2022 the closure report was denied due to OCD opinion depth to groundwater had not been adequately determined. On 10/11/2022 a soil bore (GPS: 32.794821, -104.137507) was conducted within a $\frac{1}{2}$ mile radius of the release site to a depth of 114 feet. The soil bore was left open for 72 hours and gauged with no water present in the soil bore to a depth of 114 feet. The data from the soil bore indicates that groundwater is greater than 100 feet beneath the release. Attached is the soil bore log.

Submitted by.

Environmental Technician Sr Staff

larry.baker@apachecorp.com

Cell# 432-215-2284 Off# 432-818-1000

Desert Sand Water Well Services, LLC.

Soil Bore Report

ojuj	Customer:		Phone:		Date:		
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al / V	Well Name:			Location:			
General / Well Info	1						
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From: Nobui, Jennifer, EMNRD

To: Baker, Larry

Cc: Billings, Bradford, EMNRD; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD

Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 17889

Date: Monday, October 3, 2022 3:12:34 PM

Hello Larry

OCD approves your request for a 2-week extension to submit a closure report. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks, Jennifer Nobui

From: Baker, Larry < Larry.Baker@apachecorp.com>

Sent: Monday, October 3, 2022 12:24 PM

To: Nobui, Jennifer, EMNRD < Jennifer. Nobui@emnrd.nm.gov>

Cc: Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>

Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application,

Application ID: 17889

Ms. Nobui,

The soil bore was on site on 9/19/2022 but had some mechanical failures and could not conduct the soil bore. The repairs have been made and rescheduled the soil bore for this Wednesday. Can I request another 2 week extension. Thanks

BRUCE BAKER

ENVIRONMENTAL TECHNICIAN SR STAFF

direct 432-818-1654 | Cell 432-215-2284

APACHE CORPORATION 303 Veterans Airpark Lane

Midland, TX 79705

<u>ApacheCorp.com</u> | <u>LinkedIn</u> | <u>Facebook</u> | <u>Twitter</u> | <u>StockTwits</u> | <u>YouTube</u>

From: Nobui, Jennifer, EMNRD < Jennifer.Nobui@state.nm.us>

Sent: Wednesday, September 14, 2022 3:33 PM **To:** Baker, Larry < <u>Larry.Baker@apachecorp.com</u>>

Cc: Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us>; Bratcher, Mike, EMNRD

<<u>mike.bratcher@state.nm.us</u>>; Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>; Harimon,

Jocelyn, EMNRD < <u>Jocelyn.Harimon@state.nm.us</u>>

Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application,

Application ID: 17889

Hello Larry

The OCD approves your request for a two-week extension to September 30, 2022 to submit the closure report.

Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks

Jennifer Nobui

From: Baker, Larry < <u>Larry.Baker@apachecorp.com</u>>

Sent: Wednesday, September 14, 2022 11:13 AM

To: Nobui, Jennifer, EMNRD < Jennifer.Nobui@state.nm.us>

Cc: Billings, Bradford, EMNRD < <u>Bradford.Billings@state.nm.us</u>>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application,

Application ID: 17889

Ms. Nobui,

The soil bore is scheduled for Monday 9/19/2022. Apache Corporation would like to request a two week extension to resubmit the closure report. Thanks and have a good day.

BRUCE BAKER

ENVIRONMENTAL TECHNICIAN SR STAFF direct 432-818-1654 | Cell 432-215-2284

APACHE CORPORATION 303 Veterans Airpark Lane Midland, TX 79705

<u>ApacheCorp.com</u> | <u>LinkedIn</u> | <u>Facebook</u> | <u>Twitter</u> | <u>StockTwits</u> | <u>YouTube</u>

From: Nobui, Jennifer, EMNRD < <u>Jennifer.Nobui@state.nm.us</u>>

Sent: Tuesday, August 30, 2022 3:59 PM

To: Baker, Larry < <u>Larry.Baker@apachecorp.com</u>>

Cc: Billings, Bradford, EMNRD < <u>Bradford.Billings@state.nm.us</u>>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application,

Application ID: 17889

Let me know if you need to a request an extension.

From: Baker, Larry < <u>Larry.Baker@apachecorp.com</u>>

Sent: Tuesday, August 30, 2022 2:56 PM

To: Nobui, Jennifer, EMNRD < Jennifer.Nobui@state.nm.us>

Cc: Billings, Bradford, EMNRD < <u>Bradford.Billings@state.nm.us</u>>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application,

Application ID: 17889

Ms. Nobui,

Thank you for the quick response. Although I disagree with OCD assessment of the data being insufficient Apache Corporation will spend the unnecessary cost to install a soil bore within ½ mile to demonstrate that the data provide is accurate. Please note that soil bore rigs can be difficult to schedule but I will get it done asap in attempt to meet the deadline of 9/16/2022 to resubmit a revised closure report. Thanks and have a good day.

BRUCE BAKER

ENVIRONMENTAL TECHNICIAN SR STAFF direct 432-818-1654 | Cell 432-215-2284

APACHE CORPORATION 303 Veterans Airpark Lane Midland, TX 79705

<u>ApacheCorp.com</u> | <u>LinkedIn</u> | <u>Facebook</u> | <u>Twitter</u> | <u>StockTwits</u> | <u>YouTube</u>

From: Nobui, Jennifer, EMNRD < <u>Jennifer.Nobui@state.nm.us</u>>

Sent: Tuesday, August 30, 2022 3:29 PM

To: Baker, Larry < <u>Larry.Baker@apachecorp.com</u>>

Cc: Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application,

Application ID: 17889

Hello Larry

The data you provided is insufficient to meet OCD requirements.

Best Regards,

Jennifer Nobui, PG • Environmental Specialist A

Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113
505.470-3407 | Jennifer.Nobui@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Baker, Larry < <u>Larry.Baker@apachecorp.com</u>>

Sent: Tuesday, August 30, 2022 1:17 PM

To: Nobui, Jennifer, EMNRD < <u>Jennifer.Nobui@state.nm.us</u>>

Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application,

Application ID: 17889

Ms. Nobui,

Attached are two soil bore conducted that support the USGS data in the report. The soil bore to the west was conducted on 8/3/2021 and is approximately 2.24 miles from the release. That soil bore was advanced to 104 feet left open for 72 hours and no water was indicated. On 5/26/2011 a soil bore was conducted to a depth of 99.12 and left open greater than 72 hours and had no indication of water. That soil bore is approximately 1.99 miles east of the release. The USGS data last reading was conducted in 1994 with a reading 257 feet to groundwater. That well according to the GPS provided is .64 miles south of the release. Although all the data is greater than ½ mile and the well data from the USGS well is older than 25 years the data does make a good argument for water beneath the release to be greater than 100 feet. I wanted your opinion on the acceptability of this data in regards to making the case for groundwater. If it satisfies the OCD then I will include it in the closure report and resubmit to the portal. Please let me know your thoughts. Thanks and have a good day.

BRUCE BAKER

ENVIRONMENTAL TECHNICIAN SR STAFF direct 432-818-1654 | *Cell* 432-215-2284

APACHE CORPORATION 303 Veterans Airpark Lane Midland, TX 79705

<u>ApacheCorp.com</u> | <u>LinkedIn</u> | <u>Facebook</u> | <u>Twitter</u> | <u>StockTwits</u> | <u>YouTube</u>

From: OCDOnline@state.nm.us < OCDOnline@state.nm.us >

Sent: Tuesday, August 16, 2022 2:24 PM

To: Baker, Larry < Larry.Baker@apachecorp.com>

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application

ID: 17889

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#) nRM1931831123, for the following reasons:

• Closure Report Denied. 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. Release not remediated to most stringent criteria. Please resubmit a revised Closure Report by September 16, 2022 to the OCD portal.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 17889.

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,
Jennifer Nobui
Environmental Specialist-Advanced
505-470-3407
Jennifer.Nobui@state.nm.us

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

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Apache Corporation EAU #47 NRM1931831123

Final Remediation Report

Introduction

This report presents the results of remediation activities at the EAU #47. On behalf of Apache Corporation (Apache), Diamondback Disposal Services, Inc (Diamondback) was tasked with the cleanup and remediation of release NRM1931831123. The release occurred in Unit Letter P, Section 26, Township 17S, Range 28E at coordinates 32.79977, -104.13909. The remediation was performed in general accordance with the New Mexico Oil Conservation Division (NMOCD) rules and regulations for releases dated July 24, 2018.

Overview

The spill site is located mostly on private land consisting of grass, prairie, or range lands, and active Apache lease road. Approximately 17 bbls of produced water was lost with 11 bbls being recovered and approximately 5 bbls of crude oil with 3 bbl being recovered, due to a corroded buried steel flow line.

Regulatory Guidelines

Upon review of the site characteristics, depth to ground water being 257', according to USGS and NMOSE ground water survey, and Table 1 Closure Criteria, The Recommended Remediation Action Levels (RRAL), determined by the latest NMOCD guidelines (19.15.29 NMAC) are as follows: 20,000mg/kg Chloride, 2,500 mg/kg GRO/DRO/MRO, 1,000 mg/kg GRO/DRO, 50 mg/kg BTEX, 10mg/kg Benzene.

Remediation Activities

Between the dates of January 5, 2021 and February 10, 2021, Diamondback excavated approximately 660 cubic yards (cy) of impacted material, loaded, and transported to R-360 (Halfway Facility) for disposal. Depth of excavation ranges from approximately 2 feet to 4 feet below ground surface (bgs). On January 8, 2021, the site was sampled to determine if RRAL's had been met. Five point composite samples were collected, every 200 square feet for both wall and floor sections, packaged and delivered to a third-party lab, with chain of custody, for testing as per regulatory standards. (see attached analytical). Upon review of analytical, not all floor and wall samples in the pasture area prove to be below RRAL's for site closure. Sections testing above RRAL's were excavated to a depth of 4 feet bas. The site was then re-sampled on February 5. 2021. All floor samples, with the exception of B 4 (see deferment), prove to below Table 1 closure standards, as well as restoration and reclamation standards.. All wall samples were also below Table 1 requirements as well as restoration and reclamation standards. On February 10, 2021 the site was backfilled with a total of 780 cy of clean topsoil, similar to surrounding area. Caliche was imported and placed in excavated lease road area. Material was placed in a manner to promote compaction, crowned and sloped to promote storm water runoff and erosion prevention. Excavated pasture area, including unexcavated disturbed areas., will be seeded during the next optimal growing season with State of NM Sandy Seed Mix at a rate of 30 Lbs/ acre.

Variance of Rule

Section B 4 was investigated with vertical delineation (see analytical) to determine depth and source of impaction. Two points outside the excavation were also tested to determine horizontal extents. In our opinion this area appears to be a legacy type pit common to un-lined work-over/blowdown pits used in the past, and is unrelated to the release occurring on 8-10-20.

Conclusions

Upon review all analytical and data provide by the third-party independent lab, it is our belief that all recommended remediation action levels have been met. Diamondback feels the migration of any remaining contaminants through the vadose zone, has been greatly reduced. Therefore, leaving this site in a manner that will pose very little if any future environmental threat.

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	CHLORIDE mg/Kg	BTEX	TPH
Sec 1 B. Floor H210061-01	1-8-21	2	160	<0.300	622
Sec 2 B. Floor H210061-02	1-8-21	2	112	<0.300	402
Sec 3 B. Floor H210061-03	1-8-21	2	96.0	<0.300	256.9
Sec 4 B. Floor H210061-04	1-8-21	2	240	<0.300	517
Sec 5 B. Floor H210061-05	1-8-21	2	368	<0.300	361
Sec 6 B. Floor H210061-01	1-8-21	2	80.0	<0.300	248.1
Sec 7 B. Floor H210061-01	1-8-21	2	288	<0.300	721
Sec 8 B. Floor H210061-08	1-8-21	2	212	<0.300	<10
Sec 9 B. Floor H210061-09	1-8-21	2	784	<0.300	39.10
Sec 10 B. Floor H210061-10	1-8-21	2	640	<0.300	268.7
Sec 11 B. Floor H210061-11	1-8-21	2	272	<0.300	10.3
Sec 12 B. Floor H210061-12	1-8-21	2	576	<0.300	64.7
Sec 13 B. Floor H210061-13	1-8-21	2	704	<0.300	273.2
Sec 14 B. Floor H210061-14	1-8-21	2	704	<0.300	134.7
Sec 15 B. Floor H210061-15	1-8-21	2	736	<0.300	163.8
Sec 16 B. Floor H210061-16	1-8-21	2	480	<0.300	23.1
Sec 17 B. Floor H210061-17	1-8-21	2	1060	<0.300	<10
Sec 18 B. Floor H210061-18	1-8-21	2	496	<0.300	18.8

Sec 19 B. Floor H210061-19	1-8-21	2	80.0	<0.300	<10
Sec 20 B. Floor H210061-20	1-8-21	2	368	<0.300	<10
Sec 21 B. Floor H210061-21	1-8-21	2	64.0	<0.300	<10
Sec 22 B. Floor H210061-22	1-8-21	2	48.0	<0.300	<10
Sec 23 B. Floor H210061-23	1-8-21	2	160	<0.300	<10.0
Sec 24 B. Floor H210061-24	1-8-21	2	128	<0.300	<10.0
Sec 25 B. Floor H210061-25	1-8-21	2	272	<0.300	<10.0
Sec 26 B. Floor H210061-26	1-8-21	2	368	<0.300	<10.0
Sec 3 W. Wall H210061-27	1-8-21	1-2	64.0	<0.300	<10.0
Sec 1 W. Wall H210061-28	1-8-21	1-2	208	<0.300	264.8
Sec 2 W. Wall H210061-29	1-8-21	1-2	112	<0.300	10.6
Sec 4 W. Wall H210061-30	1-8-21	1-2	128	<0.300	<10.0
Sec 5 W. Wall H210061-31	1-8-21	1-2	176	<0.300	<10.0
Sec 6 W. Wall H210061-32	1-8-21	1-2	192	<0.300	<10.0

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	CHLORIDE mg/Kg	BTEX	TPH
Sec 1 B. Floor H210294-01	2-4-21	4	N/A	N/A	274.4
Sec 2 B. Floor H210294-02	2-4-21	4	N/A	N/A	1231
Sec 3 B. Floor H210294-03	2-4-21	4	N/A	N/A	<10.0
Sec 4 B. Floor H210294-04	2-4-21	4	N/A	N/A	35.32
Sec 5 B. Floor H210294-05	2-4-21	4	N/A	N/A	2352
Sec 6 B. Floor H210294-06	2-4-21	4	N/A	N/A	,<10.0
Sec 7 B. Floor H210294-07	2-4-21	4	N/A	N/A	15.1
Sec 8 B. Floor H210294-08	2-4-21	4	N/A	N/A	<10.0
Sec 9 B. Floor H210294-08	2-4-21	4	192	N/A	N/A
Sec 10 B. Floor H210294-09	2-4-21	4	480	N/A	<10.0
Sec 13 B. Floor H210294-10	2-4-21	4	368	N/A	<10.0
Sec 13 B. Floor H210294-11	2-4-21	4	576	N/A	64.7
Sec 13 B. Floor H210294-13	2-4-21	4	704	N/A	273.2
Sec 14 B. Floor H210294-11	2-4-21	4	144	N/A	<10
Sec 15 B. Floor H210294-12	2-4-21	4	160	N/A	<10
Sec 17 B. Floor H210061-13	2-4-21	4	208	N/A	N/A
Sec 1 W. Wall H210061-14	2-4-21	1-4	48.0	N/A	<10

Analytical Delineation

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs	CHLORIDE mg/Kg	BTEX	TPH
Sample Field H210153-01	1-21-21	12	N/A	N/A	3806

Received by OCD: 6/15/2023	4:07:14 PM
Form C-141	State of New Mexico
Page 6	Oil Conservation Division

Incident ID
District RP
Facility ID
Application ID

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Closure Report Attachment Checklist: Each of the following to	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 must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office				
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)				
Description of remediation activities					
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29.13 NMAC including	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.				
	Title: Environmental Tech SR.				
Signature: Larry Baker email: larry.baker@apachecorp.com	Date: 2/11/2021				
email: larry.baker@apachecorp.com	Telephone: 432-631-6982				
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:				





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National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:	-
Groundwater ∨	United States ~	GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

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

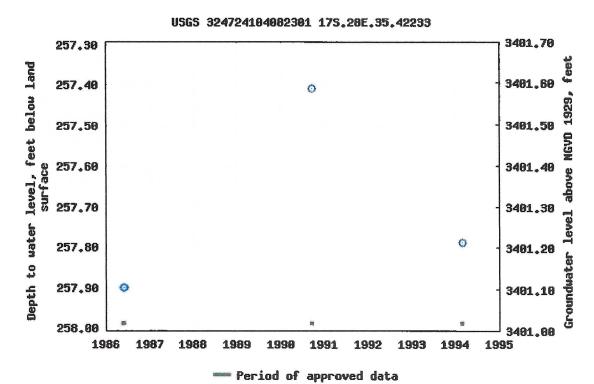
Available data for this site	Groundwater:	Field measurements	✓ GO
Eddy County, New Mexico			
Hydrologic Unit Code 13060			
Latitude 32°47'24", Longit	ude 104°08	3'23" NAD27	
Land-surface elevation 3,65	59 feet abo	ve NGVD29	
The depth of the well is 280	0.00 feet be	elow land surface	Í.
This well is completed in th	e Rustler Fo	ormation (312RS	LR) local aquifer.

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.

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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

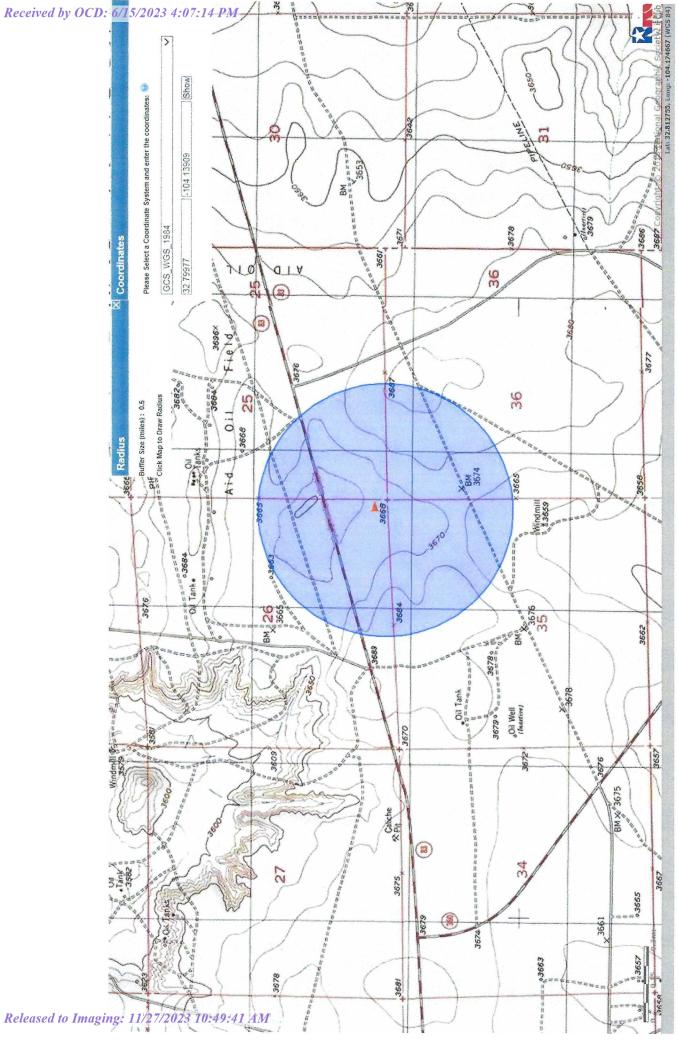
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team

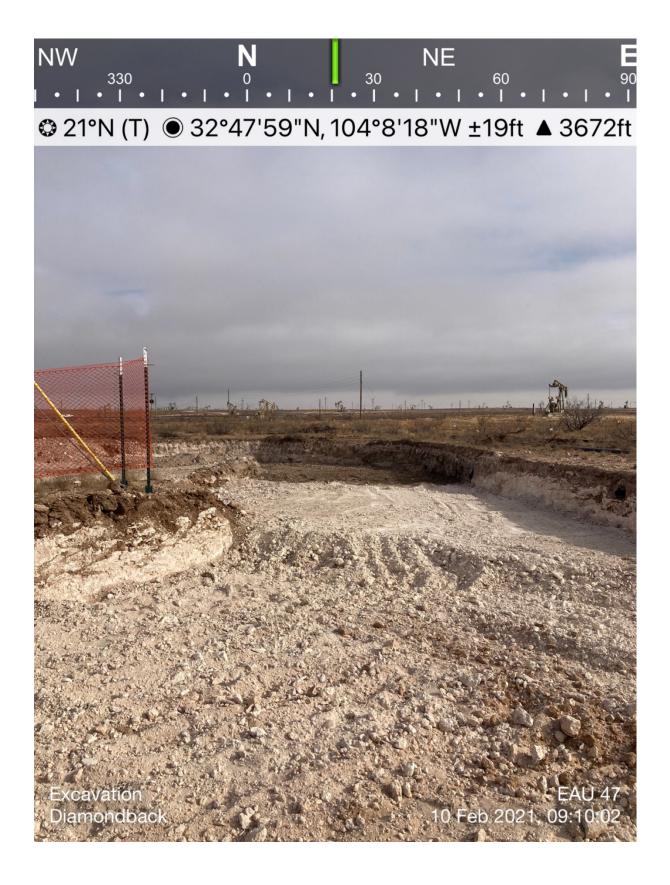
Page Last Modified: 2020-01-02 10:44:41 EST

0.57 0.48 nadww01



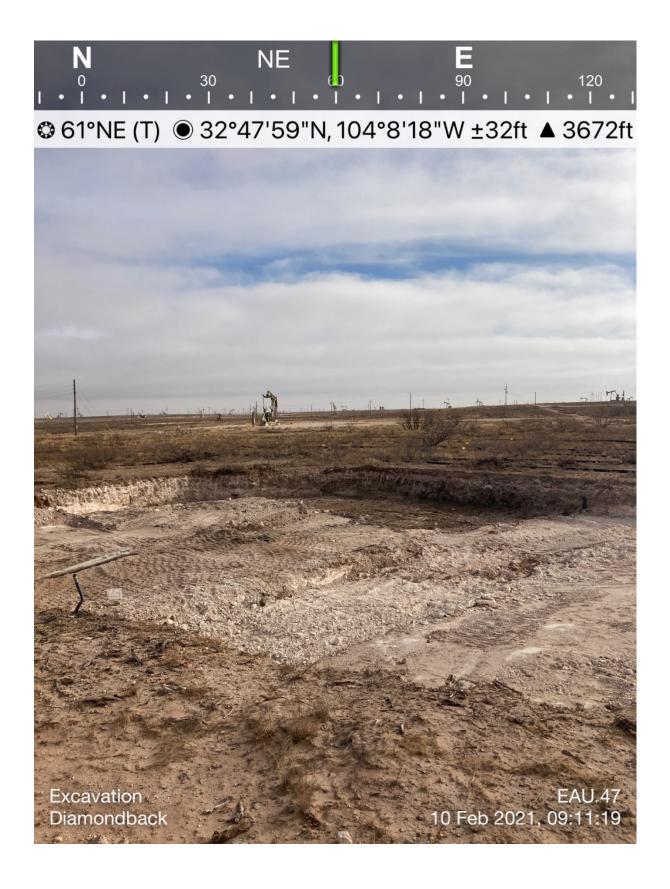






















PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 13, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU #47

Enclosed are the results of analyses for samples received by the laboratory on 01/11/21 13:30.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 01/11/2021 Reported: 01/13/2021

Project Name: EAU #47
Project Number: NRM 1931831123

Project Location: NOT GIVEN

Sampling Date: 01/08/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: B 1 (H210061-01)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2021	ND	2.15	107	2.00	1.92	
Toluene*	<0.050	0.050	01/11/2021	ND	2.13	106	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/11/2021	ND	2.08	104	2.00	2.01	
Total Xylenes*	<0.150	0.150	01/11/2021	ND	6.04	101	6.00	2.30	
Total BTEX	<0.300	0.300	01/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/12/2021	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	224	112	200	1.68	
DRO >C10-C28*	407	10.0	01/12/2021	ND	209	104	200	1.10	
EXT DRO >C28-C36	215	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	88.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	107	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey & Keene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact
Project Number: NRM 1931831123 Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: NOT GIVEN

ma/ka

Sample ID: B 2 (H210061-02)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.15	107	2.00	1.92	
Toluene*	<0.050	0.050	01/12/2021	ND	2.13	106	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	2.01	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	6.04	101	6.00	2.30	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
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	01/12/2021	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	224	112	200	1.68	
DRO >C10-C28*	245	10.0	01/12/2021	ND	209	104	200	1.10	
EXT DRO >C28-C36	157	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	89.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact
Project Number: NRM 1931831123 Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: NOT GIVEN

ma/ka

Sample ID: B 3 (H210061-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.15	107	2.00	1.92	
Toluene*	<0.050	0.050	01/12/2021	ND	2.13	106	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	2.01	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	6.04	101	6.00	2.30	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.3-12	9						
Chloride, SM4500CI-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	01/12/2021	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	224	112	200	1.68	
DRO >C10-C28*	169	10.0	01/12/2021	ND	209	104	200	1.10	
EXT DRO >C28-C36	87.9	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	92.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Sample Received By: Project Number: NRM 1931831123 Jodi Henson

Project Location: NOT GIVEN

Sample ID: B 4 (H210061-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.15	107	2.00	1.92	
Toluene*	<0.050	0.050	01/12/2021	ND	2.13	106	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	2.01	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	6.04	101	6.00	2.30	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/12/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	224	112	200	1.68	
DRO >C10-C28*	342	10.0	01/12/2021	ND	209	104	200	1.10	
EXT DRO >C28-C36	175	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	97.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	110 9	6 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Sample Received By: Project Number: NRM 1931831123 Jodi Henson

Project Location: NOT GIVEN

Sample ID: B 5 (H210061-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.15	107	2.00	1.92	
Toluene*	<0.050	0.050	01/12/2021	ND	2.13	106	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	2.01	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	6.04	101	6.00	2.30	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/12/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	224	112	200	1.68	
DRO >C10-C28*	242	10.0	01/12/2021	ND	209	104	200	1.10	
EXT DRO >C28-C36	119	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	80.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.8	% 42.2-15	6						

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Celeg D. Freene



Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-243

Fax To: (575) 393-2432

ma/ka

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil
Project Name: EAU #47 Sampling Condition: Cool & Intact

Project Number: NRM 1931831123 Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: NOT GIVEN

Sample ID: B 6 (H210061-06)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.15	107	2.00	1.92	
Toluene*	<0.050	0.050	01/12/2021	ND	2.13	106	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	2.01	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	6.04	101	6.00	2.30	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/12/2021	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	224	112	200	1.68	
DRO >C10-C28*	170	10.0	01/12/2021	ND	209	104	200	1.10	
EXT DRO >C28-C36	78.1	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	80.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.5	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Project Number: Sample Received By: Jodi Henson NRM 1931831123

Project Location: NOT GIVEN

Sample ID: B 7 (H210061-07)

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	01/12/2021	ND	2.15	107	2.00	1.92	
Toluene*	<0.050	0.050	01/12/2021	ND	2.13	106	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	2.01	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	6.04	101	6.00	2.30	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/12/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	224	112	200	1.68	
DRO >C10-C28*	514	10.0	01/12/2021	ND	209	104	200	1.10	
EXT DRO >C28-C36	207	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	90.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	117 9	% 42.2-15	6						

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Sample Received By: Project Number: NRM 1931831123 Jodi Henson

Project Location: NOT GIVEN

Sample ID: B 8 (H210061-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.15	107	2.00	1.92	
Toluene*	<0.050	0.050	01/12/2021	ND	2.13	106	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	2.01	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	6.04	101	6.00	2.30	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/12/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	224	112	200	1.68	
DRO >C10-C28*	<10.0	10.0	01/12/2021	ND	209	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	90.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.7	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact
Project Number: NRM 1931831123 Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: B 9 (H210061-09)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.15	107	2.00	1.92	
Toluene*	<0.050	0.050	01/12/2021	ND	2.13	106	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	2.01	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	6.04	101	6.00	2.30	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	01/12/2021	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	224	112	200	1.68	
DRO >C10-C28*	29.0	10.0	01/12/2021	ND	209	104	200	1.10	
EXT DRO >C28-C36	10.1	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	96.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	95.5	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact
Project Number: NRM 1931831123 Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: B 10 (H210061-10)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.15	107	2.00	1.92	
Toluene*	<0.050	0.050	01/12/2021	ND	2.13	106	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	2.01	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	6.04	101	6.00	2.30	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	01/12/2021	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	224	112	200	1.68	
DRO >C10-C28*	182	10.0	01/12/2021	ND	209	104	200	1.10	
EXT DRO >C28-C36	86.7	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	85.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.5	% 42.2-15	6						

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Project Number: Sample Received By: Jodi Henson NRM 1931831123

Project Location: NOT GIVEN

Sample ID: B 11 (H210061-11)

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	01/12/2021	ND	2.15	107	2.00	1.92	
Toluene*	<0.050	0.050	01/12/2021	ND	2.13	106	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	2.01	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	6.04	101	6.00	2.30	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/12/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	224	112	200	1.68	
DRO >C10-C28*	10.3	10.0	01/12/2021	ND	209	104	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	92.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.8	% 42.2-15	6						

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: Sampling Type: Soil 01/13/2021

Project Name: EAU #47 Sampling Condition: Cool & Intact Project Number: NRM 1931831123 Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: B 12 (H210061-12)

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	01/12/2021	ND	2.15	107	2.00	1.92	
Toluene*	<0.050	0.050	01/12/2021	ND	2.13	106	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	2.01	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	6.04	101	6.00	2.30	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	224	112	200	1.68	
DRO >C10-C28*	47.8	10.0	01/12/2021	ND	209	104	200	1.10	
EXT DRO >C28-C36	16.9	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	91.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.0	% 42.2-15	6						

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Project Number: Sample Received By: NRM 1931831123 Jodi Henson

Project Location: NOT GIVEN

Sample ID: B 13 (H210061-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.15	107	2.00	1.92	
Toluene*	<0.050	0.050	01/12/2021	ND	2.13	106	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	2.01	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	6.04	101	6.00	2.30	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	224	112	200	1.68	
DRO >C10-C28*	186	10.0	01/12/2021	ND	209	104	200	1.10	
EXT DRO >C28-C36	87.2	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	89.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.2	% 42.2-15	6						

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil Project Name: EAU #47 Sampling Condition: Coo

Project Name: EAU #47 Sampling Condition: Cool & Intact
Project Number: NRM 1931831123 Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: NOT GIVEN

ma/ka

Sample ID: B 14 (H210061-14)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.15	107	2.00	1.92	
Toluene*	<0.050	0.050	01/12/2021	ND	2.13	106	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	2.01	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	6.04	101	6.00	2.30	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	224	112	200	1.68	
DRO >C10-C28*	95.1	10.0	01/12/2021	ND	209	104	200	1.10	
EXT DRO >C28-C36	39.6	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	88.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.2	% 42.2-15	6						

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01/08/2021

Analytical Results For:

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

Received: 01/11/2021 Sampling Date:

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Project Number: Sample Received By: Jodi Henson NRM 1931831123

Project Location: NOT GIVEN

Sample ID: B 15 (H210061-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	QR-03
DRO >C10-C28*	125	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	38.8	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	94.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.8	% 42.2-15	6						

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Analytical Results For:

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

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact
Project Number: NRM 1931831123 Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: NOT GIVEN

ma/ka

Sample ID: B 16 (H210061-16)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	23.1	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	94.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.1	% 42.2-15	6						

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact
Project Number: NRM 1931831123 Sample Received By: Jodi Henson

Applyzod By: MC

Project Location: NOT GIVEN

ma/ka

Sample ID: B 17 (H210061-17)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	<10.0	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	94.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.4	% 42.2-15	6						

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Celeg & Freene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Project Number: Sample Received By: NRM 1931831123 Jodi Henson

Project Location: NOT GIVEN

Sample ID: B 18 (H210061-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	18.8	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	89.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.9	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact
Project Number: NRM 1931831123 Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: NOT GIVEN

ma/ka

Sample ID: B 19 (H210061-19)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
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	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	<10.0	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	101	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.4	% 42.2-15	6						

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Project Number: Sample Received By: Jodi Henson NRM 1931831123

Project Location: NOT GIVEN

Sample ID: B 20 (H210061-20)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	<10.0	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	91.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.6	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Sample Received By: Project Number: NRM 1931831123 Jodi Henson

Project Location: NOT GIVEN

Sample ID: B 21 (H210061-21)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	<10.0	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	91.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.8	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Project Number: Sample Received By: Jodi Henson NRM 1931831123

Project Location: NOT GIVEN

Sample ID: B 22 (H210061-22)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	<10.0	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	94.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.9	% 42.2-15	6						

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Celeg D. Freene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact
Project Number: NRM 1931831123 Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: B 23 (H210061-23)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	<10.0	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	94.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.7	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Project Number: Sample Received By: Jodi Henson NRM 1931831123

Project Location: NOT GIVEN

Sample ID: B 24 (H210061-24)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
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	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	<10.0	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	86.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.6	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Project Number: Sample Received By: Jodi Henson NRM 1931831123

Project Location: NOT GIVEN

Sample ID: B 25 (H210061-25)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	<10.0	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	85.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.6	% 42.2-15	6						

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Celeg D. Freene



Analytical Results For:

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

Received: 01/11/2021 Sampling Date:

mg/kg

01/08/2021 Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Sample Received By: Project Number: NRM 1931831123 Jodi Henson

Analyzed By: MS

Project Location: NOT GIVEN

Sample ID: B 26 (H210061-26)

BTEX 8021B

	9/	9	7111411720						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	<10.0	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	81.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.8	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact
Project Number: NRM 1931831123 Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: NOT GIVEN

ma/ka

Sample ID: W 3 (H210061-27)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	<10.0	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	82.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.3	% 42.2-15	6						

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Sample Received By: Project Number: NRM 1931831123 Jodi Henson

Project Location: NOT GIVEN

Sample ID: W 1 (H210061-28)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	167	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	97.8	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	91.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103 9	% 42.2-15	6						

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact
Project Number: NRM 1931831123 Sample Received By: Jodi Henson

Applyzod By: MC

Project Location: NOT GIVEN

ma/ka

Sample ID: W 2 (H210061-29)

RTFY 8021R

BIEX 8021B	mg	^и кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	10.6	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	92.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.1	% 42.2-15	6						

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact Project Number: Sample Received By: Jodi Henson NRM 1931831123

Project Location: NOT GIVEN

Sample ID: W 4 (H210061-30)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/12/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	<10.0	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	79.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.0	% 42.2-15	6						

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NOT GIVEN

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: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil
Project Name: EAU #47 Sampling Condition: Coo

Project Name: EAU #47 Sampling Condition: Cool & Intact
Project Number: NRM 1931831123 Sample Received By: Jodi Henson

Sample ID: W 5 (H210061-31)

Project Location:

Benzene*	BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Toluene* < 0.050	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* <0.050 0.050 01/12/2021 ND 2.00 100 2.00 4 Total Xylenes* <0.150 0.150 01/12/2021 ND 5.87 97.8 6.00 3 Total BTEX <0.300 0.300 01/12/2021 ND Surrogate: 4-Bromofluorobenzene (PID 98.8 % 73.3-129 Chloride, SM4500Cl-B mg/kg Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC for the Normality of the Norm	Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Total Xylenes*	Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Total BTEX	Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Surrogate: 4-Bromofluorobenzene (PID 98.8 % 73.3-129 Chloride, SM4500Cl-B mg/kg Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC FR Chloride 176 16.0 01/12/2021 ND 400 100 400 400 30 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC FR GRO C6-C10* GRO C6-C10* <10.0 10.0 01/12/2021 ND 222 111 200 11	Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Chloride, SM4500Cl-B mg/kg Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS Recovery True Value QC BY Result Reporting Limit Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS Recovery True Value QC BY Recovery True Value QC B	Total BTEX	<0.300	0.300	01/12/2021	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC FR Chloride 176 16.0 01/12/2021 ND 400 100 400 3 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC FR GRO C6-C10* <10.0 10.0 01/12/2021 ND 222 111 200 11 DRO >C10-C28* <10.0 10.0 01/12/2021 ND 217 108 200 11 EXT DRO >C28-C36 <10.0 10.0 01/12/2021 ND Surrogate: 1-Chlorooctane 92.1 % 44.3-144	Surrogate: 4-Bromofluorobenzene (Pl	D 98.8	% 73.3-12	?9						
Chloride 176 16.0 01/12/2021 ND 400 100 400 3 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC FR GRO C6-C10* <10.0	Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC F GRO C6-C10* <10.0	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC F GRO C6-C10* <10.0 10.0 01/12/2021 ND 222 111 200 1 DRO >C10-C28* <10.0 10.0 01/12/2021 ND 217 108 200 1 EXT DRO >C28-C36 <10.0 10.0 01/12/2021 ND Surrogate: 1-Chlorooctane 92.1 % 44.3-144	Chloride	176	16.0	01/12/2021	ND	400	100	400	3.92	
GRO C6-C10* <10.0 10.0 01/12/2021 ND 222 111 200 1 DRO >C10-C28* <10.0 10.0 01/12/2021 ND 217 108 200 1 EXT DRO >C28-C36 <10.0 10.0 01/12/2021 ND Surrogate: 1-Chlorooctane 92.1 % 44.3-144	TPH 8015M	mg	/kg	Analyze	ed By: MS					
DRO >C10-C28*	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 01/12/2021 ND Surrogate: 1-Chlorooctane 92.1 % 44.3-144	GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
Surrogate: 1-Chlorooctane 92.1 % 44.3-144	DRO >C10-C28*	<10.0	10.0	01/12/2021	ND	217	108	200	1.02	
	EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surragata: L-Chlorocetadecana 91.5 % 42.2-156	Surrogate: 1-Chlorooctane	92.1	% 44.3-14	14						
51.3 /0 42.2-130	Surrogate: 1-Chlorooctadecane	91.5	% 42.2-15	56						

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 01/11/2021 Sampling Date: 01/08/2021

Reported: 01/13/2021 Sampling Type: Soil

Project Name: EAU #47 Sampling Condition: Cool & Intact
Project Number: NRM 1931831123 Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: W 6 (H210061-32)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	< 0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/12/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2021	ND	222	111	200	1.01	
DRO >C10-C28*	<10.0	10.0	01/12/2021	ND	217	108	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/12/2021	ND					
Surrogate: 1-Chlorooctane	88.6	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	84.9	% 42.2-15	6						

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Notes and Definitions

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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326	FAX (575) 393-2476		
company Name:	F ADRKE	BILL TO	ANALYSIS REQUEST
0	,	P.O. #:	
ddress:		Company: APACAC	
Sity: Mables	State: NW Zip:88240	Attn:	
le #:	Fax#:	Address:	
roject #: NRM 193/831123	3 Project Owner:	City:	
roject Name:		State: Zip:	
Project Location: SAU H47	17	Phone #:	
1	cesach	Fax #:	
	MATRIX	PRESERV. SAMPLING	ling
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	EXTEN
B		***************************************	11.3444 1 / 1
2 83	011	-	11:36Ag 1)
(MARCHARLA PARTY)	01	_	1.382.1
4 30	C 1 1	-	11:484:11
NAME OF TAXABLE PARTY.			11.444
-	21		11:44/h
-	0 -		11.464
8 138	200		11:08
2000			1:30
LEASE NOTE: Liability and Dasmages. Cardinal's liability a nalyses. All claims including those for negligence and any ervice. In no event shall Cardinal be liable for incidental or	ny claim arising whe leemed waived unli without limitation, b	act or tort, shall be limited to the amount pal and received by Cardinal within 30 days aftr ns, loss of use, or loss of profits incurred by the is besed upon any of the above stated to	by the client for the completion of the applicable completion of the applicable ent. its subsidiaries, consign of themises.
Relinquished By: ### Relinquished By: #### Relinquished By: ###################################	Timey:30	By: Verbal Res	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Réceived By: Time:		1
Delivered By: (Circle One)	5.6 s	t CHECKED BY:	ndard B
Sampler - UPS - Bus - Other:		A	Thermometer ID #97 #1/3

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476	(575) 393-2326 FAX (575) 393-2476	0	ANALYSIS REQUEST
Company Name: 12ch		BILL 10	
Project Manager: Bruce So	Ker	Company.	
Address:		Attn:	
City: Robhs	State; W ZIP: 38 - 12	A LL LAND	
Phone #:	Fax #:	Addicas.	
Project #:	Project Owner:	City:	
brainst Name:		State: Zip:	<u>H</u>
Project Location: Call Hu	(7)	Phone #:	P
Project Location, 7 7 2	Marke Be	Fax #:	7
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	CI BIEX ETIN CX
1 811		/ / /36	1 7)
13 3/2		1:40	
7.00	0/	24.7	
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PLEASE NOTE: Liability and Damages. Cardinal's liability analyses. All claims including those for negligence and a analyses. All claims including those for negligence and a sanalyses.	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's or the pplicable please. It liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable 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 analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal's liability and Cardinal within 30 days after completion of the applicable analyses. All claims including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, and the contract of	ract or tort, shall be limited to the amount paid by the client or tre ap and received by Cardinal within 30 days after completion of the a year, loss of use, or loss of profits incurred by client, its subsidiaries, ans, loss of use, or loss of profits incurred by client, and otherwise	the applicable aries,
Relinquished By:	formance of services hereunder by Cardinal, regardless of whether such Received By:	Verbal Result: All Results are	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Received By:	REMARKS	
Delivered By: (Circle One)	Observed Temp. °C 5.6 Sample Condition	CHECKED BY:	Standard Sacteria (only) Sacte
Sampler - UPS - Bus - Other:	Corrected Temp. °C	No Correction Factor	No
FORW-000 K 3.0	- A line opposit account works	emot accent verhal changes. Please email changes to celey.keene@cardinallabsnm.com	celey.keene@cardinallabsnm.com

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	393-2476	
Company Name: Hode M.	BILL TO	ANALYSIS REQUEST
Project Manager: Bruce Baker	P.O. #:	
Address:	Company:	
City: 43 blys State; N	W Zip:38240	
hone #: Fax #:		
Project #: Project	Project Owner: City:	
Project Name:	State: Zip:	
Project Location: SAU #47	Phone #:	
Sampler Name: See Las Le	Fax#:	2/7
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	
21 821		30000 / /
-0-	00%	3.0420111
25 8%	C / / / / /	388
26 836	C//	3/0>11/
27 w3	(/ /)	3.12pm / / /
LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive projects. It client is exclusive projects and client including those for negligence and any other cause whatason envice. In or event shall Cardinal be liable for incidental or consequental damage projects or successors arising out of or related to the performance of services have	LEASE 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 native service. In or event shall cardinal heritable incliental or consequental damages, including whose so a respect to the same and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable revice. In or event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, the same arising out of or related to the performance of services hereunder by Cardinal repartless of whether such claim is based upon any of the above stated reasons or otherwise.	aid by the client for the the client for the applicable y client, its subsidiaries, y client, its subsidiaries, reasons or otherwise.
	Received By:	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:
Time:	Moceived by.	NEWANNO.
Delivered By: (Circle One) Observed To	Observed Temp. °C 5.0 Sample Condition CHECKED BY:	dard B
Sampler - UPS - Bus - Other: Corrected Temp. °C	Temp. °C	Thermometer ID #97> #1/3 Yes Yes Yes Yes Yes No Corrected Temp. °C

Page 37 of 38

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NW 90240	00000
TSHIODE	

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Veilindmenton	Bolinguished By:	Relinquished By:	PLEASE NOTE: Liability and Dan analyses. All claims including those service. In no event shall Cardinal			m 745	24	W 124	W 47.	Merroll	200	Lab I.D.		FOR LAB USE ONLY	Project Location.	Project Name:	7	VAULV	Dhone #:	City:	Address:	E	(oro)	101 Ea
	Time:	Date:	of or related to the performance of services inscendence of Dafe: //-2/	PLEASE NOTE: Liability and Damages. Condends is ability and clent's exclusive trainery or any users excess made in writing and socioived by Cardinal within 30 days after complicition of the approximation analyses. All claims including those for negligence and any other cause within special shall be deemed wived unless made in writing and socioived by cardinal writing and socioived the state of the state o			6	7	4				Sample I.D.		/#C (X-03)) or A wat	AUM	七ヶ年 MV	162 53 1173 Project Owner:	Fax #:	State:	000	mine cost		101 East Mariand, 10003, Nin 307, 1575) 393-2476
5.6 C Cool Infact Tyes 27es H13 No No		Received By:	2/ Received By:	ary tot any cosm energy made in willin half be deemed walved unless made in willin notuding without limitation, business interruption of whether such to be considered to the control of the cost of t	in contract the contract in co		CI	K 11 7	-	7 11	- i	GROWAS SOIL	ONTAIN OUNDW STEWA	VATER	MATRIX				er:		Zip:				76
mitals	CHECKED BY:	Tollies !	Moulden	g and received by Cardinal within 30 days after one, loss of use, or loss of profits incurred by cite this is based upon any of the above stated reas	tract or fort, shall be limited to the amount paid t		y	-		-	1-8-1 Y	OTH- ACII ICE OTH- DATE	HER: D/BASI / COO HER:	The second second second second second	PRESERV. SAMPLING	1	Phone #:	State: Zip:	City:	Address:	Attn:	Company: Aprical	P.O.#:	BILL TO	
2	- ALONANA	ナッナン		plicable	y the client for the		2.70 7	7 / 1 000	2 4 4 95:8	7:03 7 7 7	X X X X X X X X X X	TIME		7 B7	P	++ -V									
	HANONOOD ALK 24910 XXXX COM		o Add'l Fax#:	1								+	-											- 1	ANALYSIS REQUEST
	"COM																								



February 08, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU #47

Enclosed are the results of analyses for samples received by the laboratory on 02/05/21 10:55.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

Sampling Date:

02/04/2021

02/08/2021

Sampling Type: Sampling Condition: Soil

Project Name: Project Number:

Received:

Reported:

EAU #47 NRM1931831123

02/05/2021

Cool & Intact

Project Location:

APACHE

Sample Received By:

Tamara Oldaker

Sample ID: B 1 (H210294-01)

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	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	200	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	74.4	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	78.8 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.9 %	6 42.2-15	6						

Sample ID: B 2 (H210294-02)

TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	851	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	380	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	86.3 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	113 %	6 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg Theene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 11



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

02/05/2021

Reported:

02/08/2021 EAU #47

Project Name: Project Number:

NRM1931831123

Project Location:

APACHE

Sampling Date:

02/04/2021

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 3 (H210294-03)

TPH 8015M	mg/	kg	Analyze	d By: MS	THE COURSE AND THE CO	24	COMMITTEE TO SECURITY OF THE S		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	86.3	% 44.3-14	14				######################################		
Surrogate: 1-Chlorooctadecane	82.1	% 42.2-15	6						

Sample ID: B 4 (H210294-04)

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	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	2660	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	872	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	72.3 9	% 44.3-14	4				A CONTRACTOR OF THE CONTRACTOR		
Surrogate: 1-Chlorooctadecane	133 %	6 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 11



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

02/05/2021

Reported:

02/08/2021

Project Name: Project Number: EAU #47 NRM1931831123

Project Location:

APACHE

Sampling Date:

02/04/2021

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B 5 (H210294-05)

TPH 8015M	mg/kg		Analyzed By: MS		alima sacumponum kakasami				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	1720	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	632	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	75.5	% 44.3-14	14		9000 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Surrogate: 1-Chlorooctadecane	141	% 42.2-15	6						

Sample ID: B 6 (H210294-06)

TPH 8015M	mg/kg		Analyzed By: MS					120000 B 031000	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	92.0	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	86.2	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 11



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

02/05/2021

Reported: Project Name: 02/08/2021 EAU #47

Project Number:

NRM1931831123

Project Location:

APACHE

Sampling Date:

ate: 02/04/2021

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

oor a macc

Tamara Oldaker

Sample ID: B 7 (H210294-07)

TPH 8015M	mg/	'kg	Analyze	d By: MS				werden waard in the factor of	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	15.1	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	81.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	80.0	% 42.2-15	6						

Sample ID: B 9 (H210294-08)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM				Control of the State of the Sta	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/05/2021	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 11



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

02/05/2021

Reported:

02/08/2021

NRM1931831123

Project Name: Project Number: EAU #47

Project Location:

APACHE

Sampling Date:

02/04/2021

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 10 (H210294-09)

Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	02/05/2021	ND	416	104	400	3.77	QM-07
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	88.3	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	86.8	% 42.2-15	i6						

Sample ID: B 13 (H210294-10)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM	An artifolyous residen				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	02/05/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	87.8	% 44.3-14	4	total and the second section of the section o					
Surrogate: 1-Chlorooctadecane	82.9	% 42.2-15	6						

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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of 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.

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

02/05/2021

Reported: Project Name: 02/08/2021 EAU #47

Project Number:

NRM1931831123

Project Location:

APACHE

Sampling Date:

02/04/2021

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 14 (H210294-11)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/05/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS	~,,,,,	ERNA OLIMA VIIRNININI OLIMANINI ORVINININI (NAVIOLINIA	makis bilinga singina alay manangga nga angga kangga kangga kangga kangga kangga kangga kangga kangga kangga k		THE RESIDENCE OF THE PARTY OF T
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	78.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	75.1	% 42.2-15	6						

Sample ID: B 15 (H210294-12)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM			This contains an ann an the artist of the containers prove assessment the containers and the containers are containers.		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/05/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	86.2	% 44.3-14	4					200	
Surrogate: 1-Chlorooctadecane	81.0	% 42.2-15	6						

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Celeg to Keene



Analytical Results For:

APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD.

HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

02/05/2021

Reported:

02/08/2021

Project Name:

EAU #47

Project Number: Project Location:

APACHE

Sampling Date:

02/04/2021

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 17 (H210294-13)

Chloride, SM4500CI-B

mg/kg

83.8 %

NRM1931831123

Analyzed By: GM

Analyte

Result

Analyzed

Method Blank

% Recovery 104

True Value QC 400

Qualifier

Chloride

208

16.0 02/05/2021

42.2-156

Reporting Limit

ND

416

3.77

RPD

Sample ID: W 1 (H210294-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/05/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS	A028		AUL M		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					
Surrogate: 1-Chlorooctane	88.0	% 44.3-14	4						

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Surrogate: 1-Chlorooctadecane

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Celley & Freeze

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 11



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

Cardinal Laboratories *=Accredited Analyte

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Celeg & Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: APACH COAP PO. #: 11-E State: Zip: Attm: City: Fax #: Project Manager: WSAM # 47 Project Location: JF QUUSACA MATRIX PRESERV SAMPLING Sampler Name: JF QUUSACA MATRIX PRESERV SAMPLING Project Name: FAU # 47 Project Name: JF QUUSACA MATRIX PRESERV SAMPLING Sampler Name: JF QUUSACA MATRIX PRESERV SAMPLING Project Name: JF QUUSACA MATRIX PRESERV SAMPLING Sampler Name: JF QUUSACA MATRIX PRESERV SAMPLING PROJECT Name: JF QUUSACA MATRIX PRESERV SAMPLING Sampler Name: JF QUUSACA MATRIX PRESERV SAMPLING Sampler Name: JF QUUSACA MATRIX PRESERV SAMPLING PROJECT Name: JF QUUSACA MATRIX PRESERV SAMPLING SAMPLE TIME SAM # SQUAL GRADITING SAMPLING FAX # SQUAL GRADITING SAMPLING SAMPLING FAX # SQUAL GRADITING SAMPLING SAMPLING SAMPLING FAX # SQUAL GRADITING SAMPLING SAMPLIN
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Released to Imaging: 11/27/2023 10:49:41 AM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Lability and Damages. Control of bealty and analyses. All charts including those for nephyserice and any other service. In no event shall Control be liable for incidental or control shall be for incidental or control shall be an adversed or successors, are and out of at related to the performant Relinquished By: Relinquished By:	Lab I.D. Sample I.D. #210794 12 8 14 13 8 17	第一人用	Project Name: EAU #47	Phone #: PM 143/73 1123	City:	lanager: 0VS#2	APMENTE	(575) 393-2326 FAX (5/5) 393-24/6
PLEASE NOTE: Labelly and Duringue. Conditions buildly and clearly acquisive remains for any plane as any whether passed in confluct to to 1, shall be limited to the amount paid by the clearly to the annual passed on confluence of the shall be decided by the clear to the shall be shall be decided by the clear to the shall be s	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	QUESTON	1	Project Owner: ARA	. Zip:		1024	5/5) 393-24/0
- 2 U E	OTHER ACID/BASE ICE/COOL OTHER: 1 2/4/2 10:35 X X	FAX #: PRESERV SAMPLING	State: 4.1p: Phone #:		Attn: Address:	Company:	1 8	BILL TO
Results to Different Con								ANALYSIS REGOES



January 22, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU #47

Enclosed are the results of analyses for samples received by the laboratory on 01/22/21 8:45.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 01/22/2021 Reported: 01/22/2021

Project Name: EAU #47
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/21/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FIELD SAMPLE @ 12 (H210153-01)

TPH 8015M	mg,	/kg	Analyze	d 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	01/22/2021	ND	188	94.1	200	8.01	
DRO >C10-C28*	2950	10.0	01/22/2021	ND	189	94.6	200	5.38	
EXT DRO >C28-C36	856	10.0	01/22/2021	ND					
Surrogate: 1-Chlorooctane	78.5	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	314	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	476	111	ANALYSIS REQUEST
Company Name: However		BILL 10	- 1
P	P.O. #:		
(Company:	pany:	
oldos	State: VM Zip: \$200 Attn:	,	
Phone #: Fax #:	Address:	988:	
	ner: City:		
	State:	: Zip:	
Topect Marine:	Phone #:	e#:	
	Fax #:		
Sampler Name: Trolly 19 See 19	MATRIX PR	PRESERV. SAMPLING	
FOR LAB USE ONLY	RS TER ER	<i>Y</i>	
Lab I.D. Sample I.D.	(G)RAB OR (C) # CONTAINER GROUNDWAT WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE:	OTHER:	
1 Field Sumple @12	9	1/2/ 4:30	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lord, shall be limited to the amount paid by the cleant of the placable analyses. Cardinal within 30 days after completion of the applicable 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 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.	dy for any claim arising whether based in contract or tort, shall be deemed waived unless made in writing and receive	shall be limited to the amount paid by the client for the d by Cardinal within 30 days after completion of the applicable se or loss of profits incurred by client, its subsidiaries,	
service. In no event shall Cardinal be liable for incidental of consequental uninages, inclosing the service of the consequent and the service of the servic	of services hereunder by Cardinal, regardises of whether such claim is based upon any of the above stated reasons or otherwise Phone Res Phone Res	upon any of the above stated reasons or otherwise. Phone Result: Yes	No.
hed By:	21 Received by.	Fax Result:	
1 Ime:	15 Jamara ch	Mark	
Relinquished By: Time:		Xust	
	Sample Condition	CHECKED BY:	
		(Initials)	
Sampler - UPS - Bus - Other: - 3.4e	#1/3 1 185 1 185	1,0	

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

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

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

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

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

CONDITIONS

Action 228923

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	228923
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created B	y Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM1931831123 EMPIRE ABO UNIT #047, thank you. This closure is approved.	11/27/2023