

303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

August 26, 2020

Re: EAU 47 Case # NRM1931831123

Background:

On 8/10/2019 a release occurred due to buried steel flow line corroded resulting in the loss of produced water. The release (GPS: 32.79977, -104.13909) is located east of Artesia, NM in unit letter P section 26 township 17S range 28E. A remediation plan was submitted and denied by OCD on 2/17/2020. A ground water survey was conducted utilizing data from NMOSE and USGS. The nearest well indicates ground water below the release to be 257 feet below ground surface.

On 2/21/2020 SP 3 was further delineated to a depth of 1 foot. The sample collected was submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Horizontal surface 5 point composite samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On 8/13/2020 SP 1 was further delineated to a depth of 3 feet and SP 2 to a depth of 2 feet. Both samples collected were submitted to a commercial laboratory for analysis of TPH and BTEX.

Remediation Plan:

Apache Corporation proposes that the pasture area around SP 1 and SP 2 be excavated to a depth of 2 feet. The area on the lease road at SP 3 be excavated to a depth of 1 foot. After the excavation is complete final five point bottom composite samples will be collected not to exceed 1,000 square feet and final five point wall composite samples will be collected not to exceed 200 square feet. All excavated soil (450 yards) will be hauled to an OCD approved disposal facility. The lease road will be backfilled with clean imported caliche and the pasture with clean imported top soil and contoured to the surrounding area. The pasture area will be reseeded to surface landowners guidelines. The remediation will be completed within six months of the OCD approval date of the plan.

Enclosed: C-141, Groundwater Data, Sample Diagram, Sample Data, Laboratory Results,

Received by OCD: 8/27/2020 12:08:05 PM Submitted by;

Bruce Baker

Environmental Technician larry.baker@apachecorp.com Cell# 432-631-6982 Off# 432-818-1000

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Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🔽 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🔽 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔽 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🔽 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🔽 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗹 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🔽 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🔽 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🔽 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🔽 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗹 Yes 🗌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
 Field data
- Data table of soil contaminant concentration data
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
 - Photographs including date and GIS information
- Z Topographic/Aerial maps
- Laboratory data including chain of custody

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

Page 4	020 12:08:05 PM State of New Mex Oil Conservation Div		Incident ID District RP Facility ID Application ID	Page 4 oj
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of	ormation given above is true and comple e required to report and/or file certain re nment. The acceptance of a C-141 repor gate and remediate contamination that p of a C-141 report does not relieve the op	lease notifications and perform of t by the OCD does not relieve th ose a threat to groundwater, sur	corrective actions for release ne operator of liability should face water, human health or	es which may endanger d their operations have the environment. In
and/or regulations.	Baker	_{Title} . Environm	ental Tech SR.	
e	Baker rry Baker	_{Title:} Environm	ental Tech SR.	
Printed Name: Larry E Signature: Lan	Baker nry <i>Baker</i> Dapachecorp.com	Title: Environm Date: 8/27/2020 Telephone: 432-6	ental Tech SR.)	
Printed Name: Larry E Signature: Lan		Title: Environm	ental Tech SR.) 331-6982	

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Oil Conservation Division

Remediation Plan Checklist: Each of the following items must be included in the plan.

Incident ID	
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Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points \square Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Title: Environmental Tech SR. Printed Name: Larry Baker Signature: Larry Baker Date: 8/27/2020 Telephone: 432-631-6982 email: larry.baker@apachecorp.com **OCD Only** Received by: Chad Hensley Date: 04/19/2021 Approved Approved with Attached Conditions of Approval Denied Deferral Approved had Heno Date: 04/19/2021 Signature:



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National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:	
Groundwater	✓ United States	~ G0

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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 175.28E.35.42233

Available data for this site Groundwater. Field measurements V GO

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

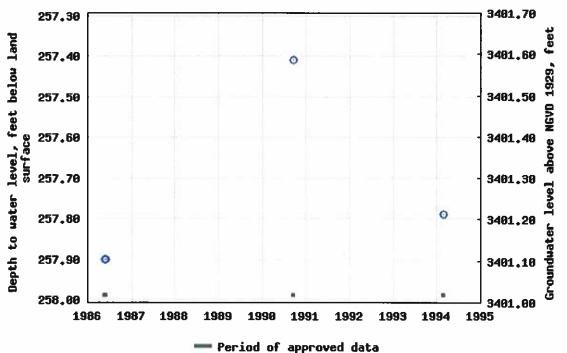
Output formats

Table of data Tab-separated data

Graph of data

Reselect period





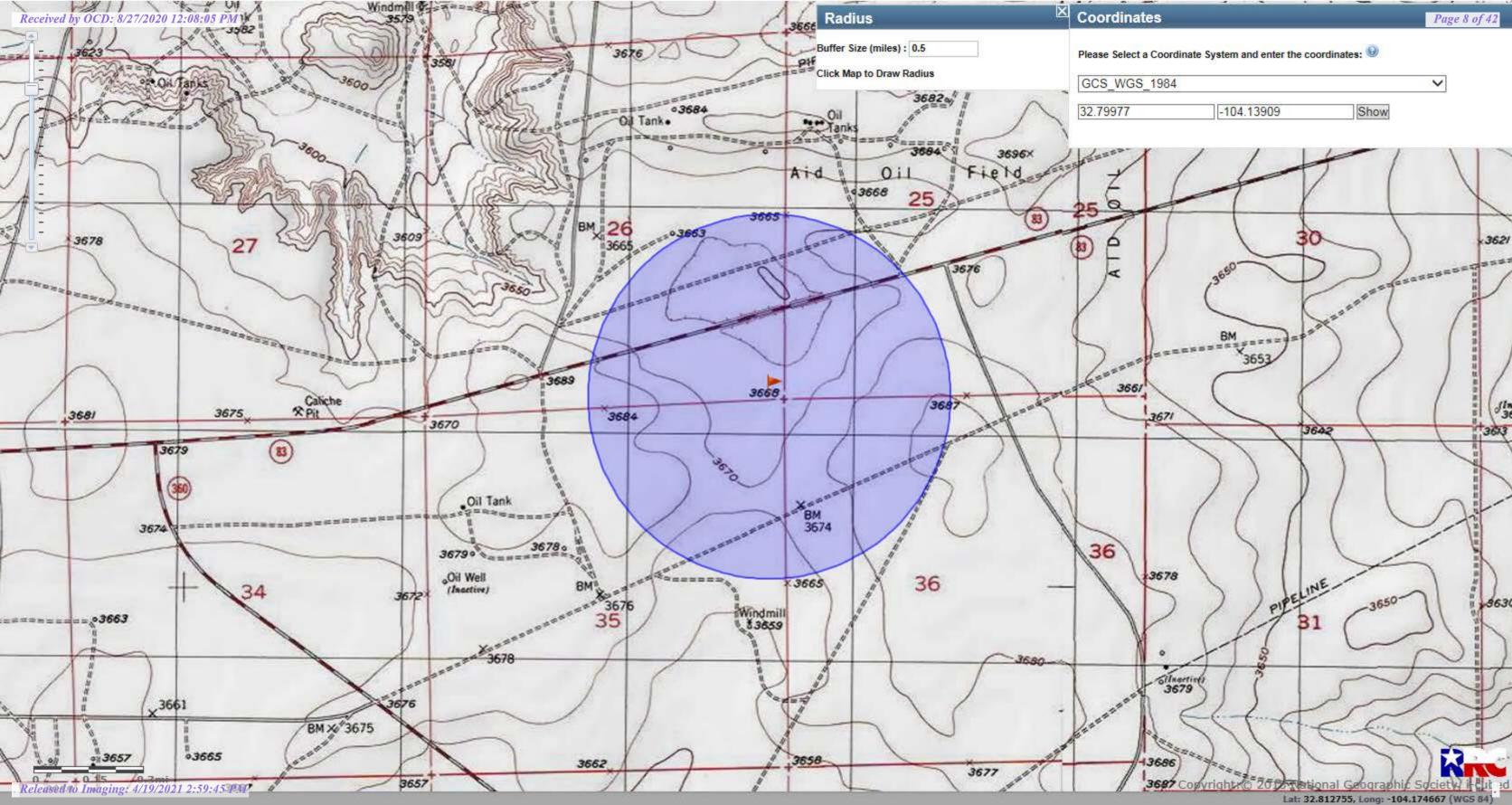
Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

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<u>U.S. Departme</u> Title: Groundy URL: https://	water for USA	: Water Le	vels		USA.gov
Page Contact I Page Last Modi				eam	

0.57 0.48 nadww01





Google earth

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HC3

NEDU Injection Line Complete List

Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total	Total	GRO	DRO	EXT DRO	GPS Coordinates
Date			Lab				Xylenes	BTEX				
												32.799816, -
10/23/2019	SP1	S	4,800	ND	ND	ND	ND	ND	ND	42000	22400	104.138513
10/23/2019		1'	2,070	ND	ND	ND	ND	ND	ND	2510	1230	
10/23/2019		2'	320	ND	ND	ND	ND	ND	ND	198	259	
8/13/2020				<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.799686, -
10/23/2019	SP 2	S	1,610	ND	ND	ND	ND	ND	ND	63.9	ND	104.138727
10/23/2019		1'	312	ND	ND	ND	ND	ND	ND	215	319	
8/13/2020				<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.799686, -
10/23/2019	SP 3	S	1,520	ND	ND	ND	ND	ND	ND	3660	2990	104.138513
2/21/2020		1'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.799615, -
2/21/2020	HC1	S	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	104.139089
												32.79962, -
2/21/2020	HC2	S	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	104.13864
												32.79999, -
2/21/2020	HC3	S	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	104.13845
												32.799736, -
2/21/2020	HC4	S	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	104.138750



Analytical Report

Report Summary

Client: Hungry Horse

Samples Received: 10/29/2019 Job Number: 19054-0003 Work Order: P910184 Project Name/Location: Apache Corp- Empire Abo Unit C47

Report Reviewed By:

Walter Hinden

Date: 10/30/19

Walter Hinchman, Laboratory Director



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Hungry Horse	Project Name	Apache Corp- Empire Abo Unit C47	
PO box 1058	Project Number:	19054-0003	Reported:
Hobbs NM, 88240	Project Manager	Lindsey Salgado	10/30/19 17:22

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-Surf	P910184-01A	Soil	10/23/19	10/29/19	Glass Jar, 4 oz.
SP2-Surf	P910184-02A	Soil	10/23/19	10/29/19	Glass Jar, 4 oz.
SP3-Surf	P910184-03A	Soil	10/23/19	10/29/19	Glass Jar, 4 oz.
SP1-1'	P910184-04A	Soil	10/23/19	10/29/19	Glass Jar, 4 oz.
SP2-1'	P910184-05A	Soil	10/23/19	10/29/19	Glass Jar, 4 oz.
SP1-2'	P910184-06A	Soil	10/23/19	10/29/19	Glass Jar. 4 oz.

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Hungry Horse	Project	t Name:	Apac	he Corp- En	npire Abo U	nit C47						
PO box 1058	Project	t Number:	19054-0003					Reported:				
Hobbs NM, 88240	Project	t Manager.	Lind	Lindsey Salgado				10/30/19 17:	22			
		S	P1-Surf									
		P9101	84-01 (Se	olid)								
		Reporting										
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Volatile Organics by EPA 8021												
Benzene	ND	0.0500	mg/kg	2	1944006	10/29/19	10/29/19	EPA 8021B				
Toluene	ND	0.0500	mg/kg	2	1944006	10/29/19	10/29/19	EPA 8021B				
Ethylbenzene	ND	0.0500	mg kg	2	1944006	10/29/19	10/29/19	EPA 8021B				
p,m-Xylene	ND	0 100	mg kg	2	1944006	10/29/19	10/29/19	EPA 8021B				
o-Xylene	ND	0.0500	mg/kg	2	1944006	10/29/19	10/29/19	EPA 8021B				
Total Xylenes	ND	0.0500	mg/kg	2	1944006	10/29/19	10/29/19	EPA 8021B				
Surrogate 4-Bromochlorobenzene-PID		103 %	50	-150	1944006	10 29 19	10 29 19	EP4 8021B				
Nonhalogenated Organics by 8015 - DRC)/ORO											
Diesel Range Organics (C10-C28)	42000	1250	mg/kg	50	1944008	10/29/19	10/29/19	EPA 8015D				
Oil Range Organics (C28-C40)	22400	2500	mg/kg	50	1944008	10/29/19	10/29/19	EPA 8015D				
Surrogate: n-Nonane		156 %	50	-200	1944008	10 29 19	10 29 19	EPA 8015D				
Nonhalogenated Organics by 8015 - GRO)											
Gasoline Range Organics (C6-C10)	ND	40.0	mg/kg	2	1944006	10/29/19	10/29/19	EPA 8015D				
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.6 %	50	-150	1944006	10 29 19	10 29 19	EPA 8015D				
Anions by 300.0/9056A												
Chloride	4800	40 0	mg/kg	2	1944005	10/29/19	10/29/19	EPA 300.0/9056A				

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Hungry Horse	Project Name: Apache Corp- Empire Abo Unit C47								
PO box 1058	Projec	Project Number: 19054-0003							
Hobbs NM, 88240	Project	t Manager:	Lind	sey Salgado				10/30/19 17:	22
		S	P2-Surf						_
		P9101	84-02 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B	-
Toluene	ND	0.0250	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	I	1944006	10/29/19	10/29/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50	-150	1944006	10 29 19	10 29 19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	D/ORO		_						
Diesel Range Organics (C10-C28)	63.9	25.0	mg/kg	1	1944008	10/29/19	10/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1944008	10/29/19	10/29/19	EPA 8015D	
Surrogate: n-Nonane		105 %	50	-200	1944008	10 29 19	10 29 19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO	0								
Gasoline Range Organics (C6-C10)	ND	20.0	mg kg	1	1944006	10/29/19	10/29/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.5 %	50	-150	1944006	10 29 19	10 29 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1610	40.0	mg∕kg	2	1944005	10/29/19	10/29/19	EPA 300.0/9056A	

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Hungry Horse	Hungry Horse Project Name Apache Corp- Empire Abo L									
PO box 1058	Project	t Number:	19054-0003					Reported:		
Hobbs NM, 88240	Project	t Manager	Lind	sey Salgado				10/30/19 17 22		
		S	P3-Surf							
			84-03 (Se	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	I.	1944006	10/29/19	10/29/19	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	1944006	10 29 19	10/29/19	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	I.	1944006	10/29/19	10/29/19	EPA 8021 B		
Total Xylenes	ND	0.0250	mg kg	1	1944006	10/29/19	10/29/19	EPA 8021B		
Surrogate: 4-Bromochlorabenzene-PID		105 %	50	-150	1944006	10 29 19	10 29 19	EIA 8021B		
Nonhalogenated Organics by 8015 - DRC	D/ORO								<u> </u>	
Diesel Range Organics (C10-C28)	3660	500	mg/kg	20	1944008	10/29/19	10/29/19	EPA 8015D		
Oil Range Organics (C28-C40)	2990	1000	mg/kg	20	1944008	10/29/19	10/29/19	EPA 8015D		
Surrogate: n-Nonane		127 %	50	-200	1944008	10 29 19	10 29 19	EPA 8015D		
Nonhalogenated Organics by 8015 - GRG	D									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8015D		
Surrogate 1-Chloro-4-fluorobenzene-FID		85.4%	50	-150	1944006	10 29 19	10 29 19	EPA 8015D		
Anions by 300.0/9056A										
Chloride	1520	40.0	mg/kg	2	1944005	10/29/19	10/29/19	EPA 300.0 9056A		

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Hungry Horse	Projec	t Name	Apac	he Corp- En	npire Abo U	nit C47			
PO box 1058	Ргојес	t Number:	1905	4-0003				Reported:	
Hobbs NM, 88240	Project	t Manager:	Lind	sey Salgado			10/30/19 17:22		
			SP1-1'						
		P9101	84-04 (Sc	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B	
o-Xylene	ND	0 0250	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	l	1944006	10/29/19	10/29 19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		108 %	50	-150	1944006	10 29 19	10 29 19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	/ORO								
Diesel Range Organics (C10-C28)	2510	500	mg/kg	20	1944008	10/29/19	10/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	1230	1000	mg/kg	20	1944008	10/29/19	10/29/19	EPA 8015D	
Surrogate: n-Nonane		124 %	50	-200	1944008	10 29 19	10 29 19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.7 %	50	-150	1944006	10 29 19	10 29 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2070	40.0	mg/kg	2	1944005	10/29/19	10/29/19	EPA 300.0/9056A	

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Hungry Horse	Project	t Name.	Apac	he Corp- En	ipire Abo U	nit C47			
PO box 1058	Project	t Number:	1905	4-0003				Reported:	
Hobbs NM, 88240	Project	t Manager:	Lind	sey Salgado				10/30/19 17:22	
			SP2-1'						
			84-05 (Se	olid)					
		Reporting							
Analyte	Result	Limít	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	I	1944006	10/29/19	10/29/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	I.	1944006	10/29/19	10/29/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50	-150	1944006	10 29 19	10 29 19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	00								
Diesel Range Organics (C10-C28)	215	125	mg/kg	5	1944008	10/29/19	10/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	319	250	mg/kg	5	1944008	10/29/19	10/29/19	EPA 8015D	
Surrogate: n-Nonane		113 %	50	-200	1944008	10 29 19	10 29 19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorohenzene-FID		86.4%	50	-150	1944006	10 29 19	10 29 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	312	20.0	mg/kg	1	1944005	10 29 19	10/29/19	EPA 300.0/9056A	

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Hungry Horse	Project	Name	Apac	che Corp- En	ipire Abo U	nit C47					
PO box 1058	Project	Number	1905	4-0003				Reported:			
Hobbs NM, 88240	Project	Manager	Lind	sey Salgado				10/30/19 17	10/30/19 17:22		
			SP1-2'								
			84-06 (Se	olid)							
		Reporting									
Analyte	Result	Limi	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Volatile Organics by EPA 8021											
Benzene	ND	0.0250	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B			
Toluene	ND	0.0250	mg/kg	I.	1944006	10/29/19	10/29/19	EPA 8021B			
Ethylbenzene	ND	0.0250	mg/kg	I.	1944006	10/29/19	10/29/19	EPA 8021B			
p,m-Xylene	ND	0.0500	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B			
o-Xylene	ND	0-0250	mg kg	I.	1944006	10/29/19	10/29/19	EPA 8021B			
Total Xylenes	ND	0_0250	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8021B			
Surrogate: 4-Bromochlorobenzene-PID		104%	50	-150	1944006	10 29 19	10 29 19	EPA 8021B			
Nonhalogenated Organics by 8015 - DR	D/ORO										
Diesel Range Organics (C10-C28)	198	125	mg/kg	5	1944008	10/29/19	10/29/19	EPA 8015D			
Oil Range Organics (C28-C40)	259	250	mg/kg	5	1944008	10/29/19	10/29/19	EPA 8015D			
Surrogate: n-Nonane		116 %	50	-200	1944008	10 29 19	10 29 19	EPA 8015D			
Nonhalogenated Organics by 8015 - GR	D										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1944006	10/29/19	10/29/19	EPA 8015D			
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.0 %	50	-150	1944006	10 29 19	10 29 19	EPA 8015D			
Anions by 300.0/9056A											
Chloride	320	20.0	mg/kg	1	1944005	10/29:19	10/29/19	EPA 300.0/9056A			

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Hungry Horse	Project Name	Apache Corp- Empire Abo Unit C47	
PO box 1058	Project Number	19054-0003	Reported:
Hobbs NM, 88240	Project Manager	Lindsey Salgado	10/30/19 17:22

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1944006 - Purge and Trap EPA 5030A										
Blank (1944006-BLK1)				Prepared &	: Analyzed:	10/29/19 1				
Benzene	ND	0 0250	mg/kg							
Toluene	ND	0 0250	1.4							
Ethylbenzene	ND	0 0250	÷.							
.m-Xylene	ND	0 0500								
o-Xylene	ND	0 0250	- C							
fotal Xylenes	ND	0 0250								
urrogate: 4-Bromochlorobenzene-PID	8,38			8.00		105	50-150			
LCS (1944006-BS1)				Prepared &	: Analyzed:	10/29/19 1				
Benzene	4 27	0 0250	mg/kg	5 00		85.5	70-130			
Toluene	4 77	0 0250		5.00		95.4	70-130			
ihylbenzene	4 87	0 0250		5.00		97.4	70-130			
.m-Xylene	9 70	0 0500		10.0		97.0	70-130			
-Xylene	4 86	0 0250	*	5.00		97 2	70-130			
Fotal Xylenes	14.6	0 0250		15.0		97.1	70-130			
surrogate: 4-Brimochlorobenzene-PID	8.57		3	8.00		107	50-150			
Matrix Spike (1944006-MS1)	Sou	rce: P910184-	02	Prepared 1	0/ 29/19 1 /	Analyzed 19	0/29/19 2			
Benzene	3 96	0 0250	mg/kg	5.00	ND	79 2	54 3-133			
Folgene	4 48	0.0250		5 00	ND	89 6	61 4-130			
thylbenzene	4 53	0 0250		5.00	ND	90.6	61 4-133			
o,m-Xylene	9.03	0 0500		10.0	ND	90.3	63 3-131			
-Xylene	4 55	0 0250		5 00	ND	90.9	63 3-131			
Fotal Xylenes	13.6	0 0250		15 0	ND	90.5	63 3-131			
iurrogate: 4-Bromochlorobenzene-PID	8.50		н	8.00		106	50-150			
Matrix Spike Dup (1944006-MSD1)	Sou	irce: P910184-	02	Prepared 1	0/ 29/19 1 /	Analyzed 1	0/29/19 2			
Benzene	4 22	0 0250	mg/kg	5 00	ND	84.5	54 3-133	6 48	20	
oluene	4 72	0 0250		5 00	ND	94.3	61 4-130	515	20	
ithylbenzene	4 84	0 0250		5 00	ND	96.8	61 4-133	6 58	20	
),m-Xylene	9 63	0 0500		10 0	ND	96.3	63 3-131	6 42	20	
-Xylene	4 85	0 0250		5 00	ND	97.0	63 3-131	6 47	20	
Fotal Xylenes	14.5	0 0250	2	15.0	ND	96.5	63 3-131	6 44	20	
surrogate 4-Bromachlarobenzene-PID	8.55		- A	8.00		107	50-150		_	

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Hungry Horse	Project Name:	Apache Corp- Empire Abo Unit C47	
PO box 1058	Project Number	19054-0003	Reported:
Hobbs NM, 88240	Project Manager	Lindsey Salgado	10/30/19 17:22

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

			-							
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1944008 - DRO Extraction EPA 3570										
Blank (1944008-BLK1)				Prepared	10/29/19 /	Analyzed	10/30/19 0			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50 0								
Surrogate: n-Nonane	17.5			50.0		95.0	50-200			
LCS (1944008-BS1)				Prepared	10/29/19 1 4	Analyzed	10/30/19 0			
Diesel Range Organics (C10-C28)	496	25 0	mg/kg	500		99.3	38-132			
Surrogate n-Nonane	50.8		<u> </u>	50.0		102	50-200			
Matrix Spike (1944008-MS1)	Sou	rce: P910167-	01	Prepared	10/29/19 1 4	Analyzed	10/30/19 1			
Diesel Range Organics (C10-C28)	511	25 0	mg/kg	500	ND	102	38-132			
Surrogate n-Nonane	49.4		"	50.0		9.8.8	50-200			
Matrix Spike Dup (1944008-MSD1)	Sou	rce: P910167-	10	Prepared	10/29/19 I A	Analyzed	10/30/19 1			
Diesel Range Organics (C10-C28)	525	25 0	mg/kg	500	ND	105	38-132	2.61	20	
Surrogate: n-Noncare	48.7			50,0		97.3	50-200			

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Hungry Horse	Project Name	Apache Corp- Empire Abo Unit C47	
PO box 1058	Project Number	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	10/30/19 17:22

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

		*		•					
	Reporting		Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
									-
			Prepared &	& Analyzed	10/29/19	1			
ND	20 0	mg/kg							
6.89		· ·	8.00		86.1	50-150			
			Prepared	10/29/19 I A	nalyzed	10/29/19 2			
47.4	20.0	mg/kg	50 0		94 7	70-130			
6.89			8,00		86.1	50-150			
Sour	ce: P910184-	02	Prepared	10/29/19 A	analyzed.	10/29/19 2			
47 8	20 0	mg/kg	50 0	ND	95.5	70-130			
6.93			8.00		86.6	50-150			
Sour	ce: P910184-	02	Prepared	10/29/19 A	Analyzed	10/29/19 2			
47 3	20 0	mg/kg	50.0	ND	94.5	70-130	1 05	20	
7.03			8.00		87.9	50-150			
	ND 6.89 47 4 6.89 Sour 47 8 6.93 Sour 47 3	Result Limit ND 20 0 6.89	Reporting Limit Units Result Limit Units ND 200 mg/kg 6.89 " " 47.4 200 mg/kg 6.89 " " 47.4 200 mg/kg 6.89 " " 5ource: P910184-02 " 47.8 200 mg/kg 6.93 " " 47.3 200 mg/kg	Reporting Result Spike Limit Spike Units Spike Level ND 200 mg/kg Prepared & 8.00 6.89 " 8.00 47.4 200 mg/kg 50.0 47.4 200 mg/kg 50.0 6.89 " 8.00 8.00 47.4 200 mg/kg 50.0 6.89 " 8.00 8.00 500 " 8.00 8.00 500 " 8.00 8.00 47.8 20.0 mg/kg 50.0 6.93 " 8.00 8.00 500 " 8.00 9.0 47.3 20.0 mg/kg 50.0	Reporting Result Spike Limit Spike Units Source Result ND 200 mg/kg 6.89 - 8.00 47.4 200 mg/kg 50.0 50urce: P910184-02 Prepared 10/29/19 1 A 47.8 200 mg/kg 50.0 ND 50urce: P910184-02 Prepared 10/29/19 1 A 47.3 200 mg/kg 50.0 ND	Reporting Result Spike Limit Spike Level Source Result Spike %REC ND 200 mg/kg -<	Reporting Result Spike Limit Spike Level Source Result %REC %REC Limit Units Level Result %REC Limits ND 200 mg/kg 6.89	Reporting Result Spike Limit Spike Level Source Result %REC %REC RPD Result Units Units Level %REC Limits RPD Result Units Units Level %REC Limits RPD Result Units Prepared & Analyzed: 10/29/19 I 10/29/19 I S0-150 Image: S	Reporting Result Spike Limit Spike Level Source Result %REC %REC RPD RPD Limit Units Units Level Result %REC Limits RPD Limit ND 20.0 mg/kg S0-150 6.89 " & 0.0 N6.1 50-150 47.4 20.0 mg/kg 50.0 94.7 70-130 47.4 20.0 mg/kg 50.0 ND 95.5 70-130 47.8 20.0 mg/kg 50.0 ND 95.5 70-130 47.8 20.0 mg/kg 50.0 ND 95.5 70-130 6.93 " & 0.00 ND 95.5 70-130 6.93 " 8.00 ND 95.5 70-130 20 47.3

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Hungry Horse	Project Name:	Apache Corp- Empire Abo Unit C47	
PO box 1058	Project Number	19054-0003	Reported:
Hobbs NM, 88240	Project Manager	Lindsey Salgado	10/30/19 17:22

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

			-							
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1944005 - Anion Extraction EPA 3	00 0/9056 \									
batta 1944003 • Amou Extraction EIA 5	00.0/70304					212 - 921				
Blank (1944005-BLK1)				Prepared &	Analyzed:	10/29/19 1				
Chloride	ND	20 0	mg/kg							
LCS (1944005-BS1)				Prepared &	Analyzed:	10/29/19 1				
Chloride	254	20 0	mg/kg	250		102	90-110			
Matrix Spike (1944005-MS1)	Sourc	e: P910184-	01	Prepared &	Analyzed:	10/29/19 1				
Chloride	4920	40.0	mg/kg	250	4800	45 9	80-120			M4
Matrix Spike Dup (1944005-MSD1)	Sourc	e: P910184-	01	Prepared:	10/29/19 1 /	Analyzed 1	0/30/19 1			
Chloride	5340	40 0	mg kg	250	4800	215	80-120	8 26	20	M4

QC Summary Report

Received by OCD: 8/27/2020 12:08:05 PM Comment: Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Hungry Horse	Project Name:	Apache Corp- Empire Abo Unit C47	
PO box 1058	Project Number	19054-0003	Reported:
Hobbs NM, 88240	Project Manager:	Lindsey Salgado	10/30/19 17:22

Notes and Definitions

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Received by OCD: 8/27/2020 12:08:05 PM

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v. state	- ZO HO	1. Bak	eroa	pachec	p. q to	ity State.	Zip			by 8015	8015				9			19	57		NM CO	UT AZ
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Project Manager: LINASUM Se Address: DD BUX 10	1047	Report due by:		Lab WC)#		lob Nu			3D	RCRA	CWA	SDWA
Project Manager: UNASAM Se	alyado	Attention:	· ····	Pile	24			1.0003					
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Email: Galacia Thu	ngapachecorp.con	Prolif:		40 4	by 8021	550	010						
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Sampled Sampled Matrix C	Sample ID		Number	DRO GRO	BTEX	à	Metals 6010			1		Ren	narks
10:15 10/3/0 5	1 SPI-Sard			K K	X		\times						
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Note: Samples are discarded 30 days after				ient or dis	posed of	at the o	lient exp	ense. The r	report for	the and	ilysis of the i	above samples	is applicable
only to those samples received by the jab	oratory with this COC. The liability				e			_					
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envir	otech 51	SUSHSpranzy 64, Familington, NB4 87401			P	h (505) 6	32-1831	Fx (505) 532	-1265	_		מי כד מיאיקט	
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Released to Imaging: 4/19/2021 2:59:45 PM

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February 28, 2020

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

HOBBS, NM 88240

RE: EAU C 47

Enclosed are the results of analyses for samples received by the laboratory on 02/21/20 15:02.

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

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. Keine

Celey D. Keene Lab Director/Quality Manager



		BRUCE BA	1arland BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	02/21/2020			Sampling Date:	02/21/2020
Reported:	02/28/2020			Sampling Type:	Soil
Project Name:	EAU C 47			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

Sample ID: SP 3 @ 1' (H000559-01)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	2.05	102	2.00	5.24	
Toluene*	<0.050	0.050	02/27/2020	ND	2.06	103	2.00	4.83	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	2.08	104	2.00	5.23	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	6.04	101	6.00	5.33	
Total BTEX	<0.300	0.300	02/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2020	ND	213	107	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/28/2020	ND	202	101	200	0.314	
EXT DRO >C28-C36	<10.0	10.0	02/28/2020	ND					
Surrogate: 1-Chlorooctane	87.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.2	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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.
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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 8/27/2020 12:08:05 PM

	Delivered By: (Circle One) Sampler - UPS - Bus - Ot	Relinguished By: Tellinguished By: Relinguished By:	 Lower NOTE: Lowing and Untrages. Catanna's Healt analyses. All delims including those for negligence and service. In no event shall Cardinal be liable for incidental affiliates or successors arising out of or related to the per 	PI FASE NOTE: I lability and Domain			Houssy	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location: CAU	Project Name: EAU	Project #:	Phone #:	City:	Address:	Project Manager:	Company Name:	101 (57	La	Page 4 of 4	
† Cardinal cannot	Observed Temp. °C 4.	Date:	yes ucrumus subunity and clients exclusive ennexy for any claim for negligence and any other cause whatsoever shall be deemed is liable for incidential or consequential damages, including without it or related to the performance of services hereunder by Cardinal, r	or Providentile linksbiller and alle side studies and the second state of the second s		1.002	(G)RAI	Sample I.D.	°.	left Known	AU - C-47	647	Project Owner:	Fax #:	State: Zip:	7	Jakin	Speche Confidentian	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	boratories	ARDINA	
Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com	Sample Condition CHECKED BY: Turna Cool Intact (Initials) Pres Pres T.S. Correc	lable	pased in contract or tort, shall be ade in writing and received by C ss interruptions, loss of use, or I sther such claim is based upon			1-280 ce/12/2	GROU WASTI SOIL OIL SLUDC OTHEF ACID/E ICE / C OTHEF	R : BASE: COOL	MATRIX PRESERV. SAMPLING	Fax #:	#	State: Zip:	City:			Company:	P.O. #:					
	Turnaround Time: Standard Bacteria (only) Sample Condition Thermometer ID #97 Cool Intact Observed Temp. °C Correction Factor + 0.4 °C Nc Nc Corrected Temp. °C	Verbal Result: □ Yes □ No Add'I Phone #: All Results are emailed. Please provide Email address: REMARKS:	lient for the union of the sphicable ubsidiaries.				TIME CL B70 EX											ANALYSIS REQUEST		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST		

Page 29 of 42



February 28, 2020

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

HOBBS, NM 88240

RE: EAU C 47

Enclosed are the results of analyses for samples received by the laboratory on 02/21/20 15:06.

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

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	02/21/2020	Sampling Date:	02/21/2020
Reported:	02/28/2020	Sampling Type:	Soil
Project Name:	EAU C 47	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HORIZONTAL 1 (H000560-01)

BTEX 8021B	mg,	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	2.05	102	2.00	5.24	
Toluene*	<0.050	0.050	02/27/2020	ND	2.06	103	2.00	4.83	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	2.08	104	2.00	5.23	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	6.04	101	6.00	5.33	
Total BTEX	<0.300	0.300	02/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/25/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2020	ND	213	107	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/28/2020	ND	202	101	200	0.314	
EXT DRO >C28-C36	<10.0	10.0	02/28/2020	ND					
Surrogate: 1-Chlorooctane	81.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	80.3	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/21/2020	Sampling Date:	02/21/2020
Reported:	02/28/2020	Sampling Type:	Soil
Project Name:	EAU C 47	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HORIZONTAL 2 (H000560-02)

BTEX 8021B	mg,	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	2.05	102	2.00	5.24	
Toluene*	<0.050	0.050	02/27/2020	ND	2.06	103	2.00	4.83	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	2.08	104	2.00	5.23	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	6.04	101	6.00	5.33	
Total BTEX	<0.300	0.300	02/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/25/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2020	ND	213	107	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/28/2020	ND	202	101	200	0.314	
EXT DRO >C28-C36	<10.0	10.0	02/28/2020	ND					
Surrogate: 1-Chlorooctane	91.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.3	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/21/2020	Sampling Date:	02/21/2020
Reported:	02/28/2020	Sampling Type:	Soil
Project Name:	EAU C 47	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HORIZONTAL 3 (H000560-03)

BTEX 8021B	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	2.05	102	2.00	5.24	
Toluene*	<0.050	0.050	02/27/2020	ND	2.06	103	2.00	4.83	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	2.08	104	2.00	5.23	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	6.04	101	6.00	5.33	
Total BTEX	<0.300	0.300	02/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2020	ND	208	104	200	2.93	
DRO >C10-C28*	<10.0	10.0	02/28/2020	ND	226	113	200	0.526	
EXT DRO >C28-C36	<10.0	10.0	02/28/2020	ND					
Surrogate: 1-Chlorooctane	85.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.2	% 42.2-15	6						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/21/2020	Sampling Date:	02/21/2020
Reported:	02/28/2020	Sampling Type:	Soil
Project Name:	EAU C 47	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HORIZONTAL 4 (H000560-04)

BTEX 8021B	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	2.05	102	2.00	5.24	
Toluene*	<0.050	0.050	02/27/2020	ND	2.06	103	2.00	4.83	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	2.08	104	2.00	5.23	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	6.04	101	6.00	5.33	
Total BTEX	<0.300	0.300	02/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2020	ND	208	104	200	2.93	
DRO >C10-C28*	<10.0	10.0	02/28/2020	ND	226	113	200	0.526	
EXT DRO >C28-C36	<10.0	10.0	02/28/2020	ND					
Surrogate: 1-Chlorooctane	83.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	83.6	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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.
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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Laboratories

Page 36 of 42

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Allehe Confunction	BILL TO	O ANALYSIS REQUEST
Project Manager: Three Beller	P.O. #:	
Address:	Company:	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	vner: City:	
Project Name: CAU C-47	State: Zip:	
Project Location: EAU CY7	Phone #:	
Sampler Name: NEFF Brunn	Fax #:	
0	ESERV.	SAMPLING
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	TIME CL BTBX EXT. TPH
1 Itojantal 1	help	100 026 0 0 0
3 Hunter 3		0900
4 Horizontal 4		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be demet waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whout limitation, business interruptions, loss of uses or roles of profise incidental or consequential damages, including without limitation, business interruptions, loss of uses or roles of profise incidental to the service.	dy for any claim arising whether based in contract or tort, shall be limited to the amound the dy for any claim arising whether based in contract or tort, shall be limited to the amound the based in contract or tort, shall be limited to the amound the based is not based by Cardinal within 30 data within 30 data is to see or loss of profis incurre tortuding without limitation, business interruptions, loss of use, or loss of profis incurre tortuding without claim is based uson any of the above states to	the amount paid by the client for the happicable fis incurred by client, its subsidiaries, above stated reasons or otherwise.
Relinquished By: Date:	ceived By:	Verbal Result:
Delivered By: (Circle One) Observed Temp. °C Sampler - UPS - Bus - Other: Corrected Temp. °C	4.8 Sample Con	Turnaround Time: Standard Bacteria (Rush Cool Intal Thermometer ID #97
FORM-005 R 3.0 † Cardir	Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com	hanges to celey.keene@cardinallabsnm.com



August 19, 2020

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 08/13/20 14:39.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



		BRUCE BA	1arland BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	08/13/2020			Sampling Date:	08/13/2020
Reported:	08/19/2020			Sampling Type:	Soil
Project Name:	EAU 47			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

Sample ID: SP 1 @ 3' (H002117-01)

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	08/14/2020	ND	2.03	101	2.00	1.76	
Toluene*	<0.050	0.050	08/14/2020	ND	2.05	102	2.00	1.53	
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.03	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.90	98.4	6.00	1.54	
Total BTEX	<0.300	0.300	08/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5 9	73.3-12	9						
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2020	ND	178	88.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	08/14/2020	ND	167	83.6	200	0.611	
EXT DRO >C28-C36	<10.0	10.0	08/14/2020	ND					
Surrogate: 1-Chlorooctane	85.0 9	% 44.3-14	4						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BAK	ARLAND BLVD.		
		Fax To:	(575) 393-2432		
Received:	08/13/2020			Sampling Date:	08/13/2020
Reported:	08/19/2020			Sampling Type:	Soil
Project Name:	EAU 47			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

Sample ID: SP 2 @ 2' (H002117-02)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2020	ND	2.03	101	2.00	1.76	
Toluene*	<0.050	0.050	08/14/2020	ND	2.05	102	2.00	1.53	
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.03	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.90	98.4	6.00	1.54	
Total BTEX	<0.300	0.300	08/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7 % 73.3-12		9						
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2020	ND	178	88.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	08/14/2020	ND	167	83.6	200	0.611	
EXT DRO >C28-C36	<10.0	10.0	08/14/2020	ND					
Surrogate: 1-Chlorooctane	85.7 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.1 9	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240 Ω C \cap ator **D**S

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Page 5 of 5

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by OCD: 8/27/2020 12:08:05 PM

(575) 393-2326 FAX (575) 393-2476			
Company Name: alache Corporation	BILL TO		ANALYSIS REQUEST
Bake	P.O. #:		- 1
Address:	Company:		
City: State: Zip:	Attn:		
Phone #: Fax #:	Address:		
Project #: Project Owner:	City:		
Project Name: らんん イフ	State: Zip:		
Project Location: どんん ソフ	#		
Sampler Name: 1. Source	Fax #:		
	MATRIX PRESERV. SAM	SAMPLING	
(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER	VIASTEVATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	TIME BTEX EXT. TPH	
#	S C A IC C	5	
2 SP2 @ 2'	8/13/200	142 4 V V	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be demed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors alising out of or related to the performance of services hereunder by Cardinal. recardless of whether such claim is based unon any of the ahows stand researce or behavior.	ether based in contract or tort, shall be limited to the amount paid by the client for th easy made in writing and received by Cardinal within 30 days after completion of the business interruptions, loss of use, or loss of profits incurred by client, its subsidiarie of whether such claim is based inon any of the above stated reasons or otherwise.	id by the client for the recompletion of the applicable elient, its subsidiaries, asono ar or boowlee	n
Time: 1435	ho all	ult: □ Yes □ No are emailed. Please provi	Add'] Phone #: ide Email address:
Relinquished By: Time:	Y:	REMARKS:	
Observed Temp. °C 5.4 Corrected Temp. °C	Sample Condition CHECKED BY: Cool Intact (Initials)	Turnaround Time: Standard Rush Thermometer ID #113 Correction Factor None	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
TORM-008 R 3.1 00/04/20 † Cardinal cannot accept	alc	nges to celey.keene@cardinallabs	

CONDITIONS

Action 9875

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 <u>District IV</u> 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 OF APPROVAL

Operator:		OGRID:	Action Number:	Action Type:				
	APACHE CORPORATION 303 Veterans Airpark Ln	873	9875	C-141				
#1000	Midland, TX79705							
OCD	Condition							
Reviewer	Reviewer							
chensley	nsley 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.							