



303 Veterans Airpark Lane Midland, TX 79705

Deferment Request

August 4, 2020

Re: WBDU CTB Case # 1RP-5392

On February 13, 2019 a hole developed in the fire tube on the separator causing a small fire and resulting in the loss of ½ barrel of oil. The release (GPS: 32.48454, -103.17277) is located north of Eunice, NM in unit letter D section 16 township 21S range 37E. On October 25, 2019 a closure report was submitted to NMOCD and denied on December 18, 2019.

The release area was excavated an additional 6 inches to a depth of 1 foot. On February 3, 2020 final 5 point bottom and wall composite samples not exceeding 200 square feet were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory analysis were above table one standards for releases less than 50 feet to groundwater at SP 2, W3, and W4. On February 27, 2020 a hand auger was utilized to collect samples to a depth of 2 feet at SP 2 and submitted to a commercial laboratory for analysis of TPH and BTEX. The walls were extended laterally at W3 and W4 and 5 point wall composite samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory analysis for W4 were above table one standards. On April 9, 2020 W4 was extended laterally and another 5 point composite sample was collected and submitted to a commercial laboratory analysis for W4 was above table one standards. On May 8, 2020 W4 was extended laterally and a 5 point wall composite sample was collected and submitted to a commercial laboratory for analysis for W4 were above table one standards. Laboratory analysis for W4 was above table one standards. Con April 9, 2020 W4 was above table one standards. On May 8, 2020 W4 was extended laterally and a 5 point wall composite was collected and submitted to a commercial laboratory for analysis for W4 was above table one standards. On May 8, 2020 W4 was extended laterally and a 5 point wall composite was collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory analysis of chloride, TPH, and BTEX. Laboratory analysis for W4 were below table one standards.

SP 2 could not be further excavated deeper due to it is directly under the separator. Apache Corporation request that the remaining contamination be deferred until system abandonment.

Enclosed: C-141, Groundwater Data, Sample Data, Maps, Laboratory Results, and Photos

Submitted by;

Bruce Baker

Environmental Technician larry.baker@apachecorp.com Cell# 432-631-6982 Off# 575-393-7106

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAB1907760128
District RP	1RP-5392
Facility ID	fGRL0902749252
Application ID	pAB1907759802

Release Notification

Responsible Party

Responsible Party	Apache Corporation	OGRID 873
Contact Name	Bruce Baker	Contact Telephone 432-631-6982
Contact email	larry.baker@apachecorp.com	Incident # (assigned by OCD) NAB1907760128
Contact mailing add	ess 2350 W. Marland BLVD Hobbs, NM	88240

Location of Release Source

Latitude	Longitude103.17277 83 in decinial degrees to 5 decimal places)
Site Name WBDU CTB	Site Type Battery
Date Release Discovered 2/13/19	AP1# (if applicable)
Unit Letter Section Township Ran	ge County

Surface Owner: 🔯 State 🗋 Federal 🔲 Tribal 🛄 Private (Name: ______

37E

21S

Nature and Volume of Release

Lea

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

Crude Oil	Volume Released (bbls) 1/2 barrel	Volume Recovered (bbis) 0
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No Unknown
Condensate	Volume Released (bbls)	Volume Recovered (bbis)
🗋 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Due to corrosion a hole developed in the fire tube on the separator causing a small fire at the separator.

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16

Form C-141 Page 2

age 3 of 42

State of New Mexico Oil Conservation Division

Incident ID	NAB1907760128
District RP	1RP-5392
Facility ID	fGRL0902749252
Application ID	pAB1907759802

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? Due to a hydrocarbon fire	
Yes No		
If YES, was immediate n Bruce Baker notified	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? J Jim Griswold of the fire on 2/14/19 via email at 12:12 p.m.	

Initial Response

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

The source of the release has been stopped.

1 The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

There was no standing fluid due to it was consumed in the fire.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Bruce Baker Signature: Bruce Bahes email: larry. baker @apachecorp.com	Title: Environental Tech SR. Date: 3-1-19 Telephone: 432-631-6982	
OCD Only Received by: Angla Bota mente	Date:3/18/2019	

e:

🥇 rm C-141 Mge 3

11-48

State of New Mexico **Oil Conservation Division**

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>70</u> (ft
Did this release impact groundwater or surface water?	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant	🗌 Yes 🛛 No
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?	
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
	🗌 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 XI 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. \boxtimes Field data N N N N N Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps
 Laboratory data including chain of custody 4/2020

the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation of the release, the report must include a proposed remediation of the release of the remediation technique, proposed sampling plan A methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of A. 15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

rm C-141	State of New Mexico Oil Conservation Division		Incident ID District RP Facility ID Application ID	
regulations all operators are requir public health or the environment. failed to adequately investigate and	on given above is true and complete to the be red to report and/or file certain release notific The acceptance of a C-141 report by the OC d remediate contamination that pose a threat 141 report does not relieve the operator of re Title: Environmental Technician	cations and perform co D does not relieve the to groundwater, surfac	rrective actions for rele operator of liability sh ce water, human health	eases which may endanger ould their operations have or the environment. In
Signature: Jof Ruw Email: Jeffrey.Broom@apache	<u>∧</u> 1	Date: <u>10/25/2019</u> 64-4677		
OCD Only Received by:		Date:		

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Received by OCD: 8/4/2020 11:48:55 AM

Oil Conservation Division

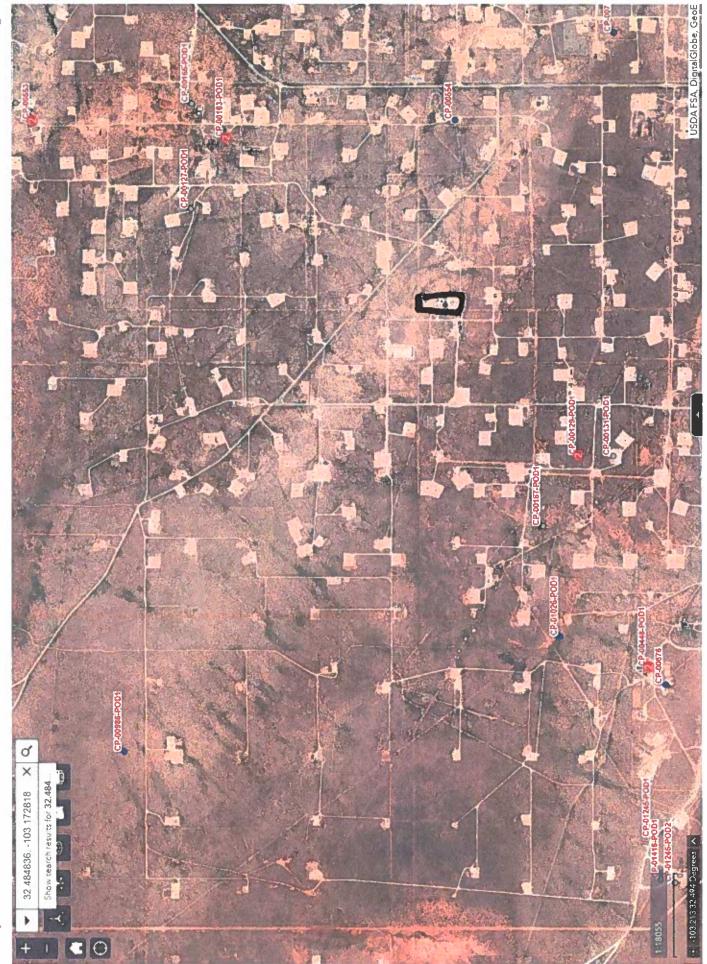
<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. \checkmark 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: 8/4/2020 email: larry.baker@apachecorp.com Telephone: 432-631-6982 **OCD Only** Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

Page 5



New Mexico Office of the State Engineer Point of Diversion Summary

					NE 3=SW o largest)		(NAD83 U	TM in meters)	
Well Tag PO	D Number	Q64 Q	16 Q4	Sec	Tws	Rng	Х	Y	
СР	00554		2 2	16	21S	37E	672744	3595610*	
Driller License:	208	Driller (Compa	ny:	VA	N NOY,	WL		
Driller Name:	VAN NOY, W.L.								
Drill Start Date:	: 06/01/1976	Drill Fi	ish Da	te:	00	5/05/197	'6 P I	ug Date:	
Log File Date:	04/05/1977	PCW R	ev Date	:			So	urce:	Shallow
Pump Type:		Pipe Dis	Pipe Discharge Size:			Es	Estimated Yield :		
Casing Size: 5.00		Depth W	Depth Well: 80 fe) feet	feet Depth Water:		70 feet	
Wa	ter Bearing Stratific	ations:	Т	op l	Bottom	Descr	iption		
				75	80	Sands	tone/Grave	l/Conglomerat	e
	Casing Perfo	rations:	Te	op l	Bottom				
				54	80				

*UTM location was derived from PLSS - see Help

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

10/25/19 1:36 PM

POINT OF DIVERSION SUMMARY

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New Mexico Office of the State Engineer Point of Diversion Summary

			· •	rs are 1=N' ers are sma				(NAD83 UT	(M in meters)	
Well Tag	POD	Number	Q64 (Q16 Q4	Sec	Tws	Rng	х	Y	
	CP (1026 POD1	1	1 3	17	21S	37E	669809	3594958 •	
Driller Lico	ense:	1626	Driller	Compar	ıy:	TA	YLOR,	ROY ALLE	N	
Driller Nar	ne:	TAYLOR, ROY	ALLEN							
Drill Start Date: 10/12/2009		Drill Fi	Drill Finish Date:			10/14/2009		g Date:		
Log File Da	ate:	10/23/2009	PCW F	PCW Rev Date:				So	Source:	Shallow
Pump Type	e:		Pipe Di	Pipe Discharge Size:				Est	timated Yield:	25 GPM 95 feet
Casing Size	e:	5.14	Depth '	Depth Well:			167 feet		pth Water:	
			a							
	wate	er Bearing Strati	lications:	To	р	Bottom	Desc	ription		
				9	95	167	Sand	stone/Gravel	/Conglomerate	

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

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POINT OF DIVERSION SUMMARY

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New Mexico Office of the State Engineer Point of Diversion Summary

	(quarters are 1=NW (quarters are smalle						(NAD83 L	TM in meters)		
Well Tag	POD	Number	Q64 Q	16 Q-	Sec	Tws	Rng	X	Y	
	CP (00676		4 4	18	215	37E	669548	3594352* •	
Driller Lic	ense:	1196	Driller (Compa	my:	М	CASLA	AND, DALI	.AS	
Driller Nai	ne:	MCCASLAND,	DALLAS							
Dutil Canad	Data	04/29/1993	Drill Finish Date:		ate:	04/30/1993		93 P I	ug Date:	
Drill Start	Date.	04.23.1335				•			Бенни	
Log File D		06/22/1994	PCW Re	v Dat	e:	·			ource:	Shallow
	ate:				•••	-		So		

*UTM location was derived from PLSS - see Help

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

10/25/19 1:17 PM

POINT OF DIVERSION SUMMARY

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Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total	Total	GRO	DRO	EXT DRO	GPS Coordinates
Date							Xylenes	BTEX				
					<u>Wall</u>	Composite Samp	oles					
												32.4844344
2/3/2020	W1	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.1726611
												32.4844542
2/3/2020	W2	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.1726762
												32.4844644
2/3/2020	W3	1'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	224	76.5	-103.1726517
4/9/2020	W3	1'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.4844604
2/3/2020	W4	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	198	82.1	-103.1726332
4/9/2020	W4	1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	589	263	
5/8/2020	W4	1'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	

					Bottor	Bottom Composite Samples								
												32.4844576		
5/16/2019	SP2	6"	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	512	203	-103.1726389		
2/3/2020	SP2	1'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	111	24.1			
2/27/2020	SP2	2'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0			

Note: GPS points are taken at the middle composite sample





May 17, 2019

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

RE: WBDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/16/19 12:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

Received by OCD: 8/4/2020 11:48:55 AM

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:	05/16/2019	Sampling Date:	05/16/2019
Reported:	05/17/2019	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ 6" (H901779-01)

BTEX BOZIB	mg,	/kg	Алаіуze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2019	ND	1.97	98.3	2.00	4.04	
Toluene*	<0.050	0.050	05/16/2019	ND	2.09	104	2.00	2.16	
Ethylbenzene*	<0.050	0.050	05/16/2019	ND	1.99	99.5	2.00	2.17	
Total Xylenes*	<0.150	0.150	05/16/2019	ND	6.00	99.9	6.00	2.13	
Total BTEX	<0.300	0.300	05/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE	94.3 %	73.3-129
--------------------------------------	--------	----------

Chloride, SM4500CI-B	mg/l	(g	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/17/2019	ND	400	100	400	4.08	
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	05/16/2019	ND	193	96.6	200	3.48	
DR0 >C10-C28*	512	10.0	05/16/2019	ND	187	93.5	200	6.10	
EXT DRO >C28-C36	203	10.0	05/16/2019	ND					
Surrogate: 1-Chlorooctane	94.0 %	6 41-142	2						
Surrogate: 1-Chlorooctadecane	118 %	37.6-14	7						

Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Candinat's field-bity and client's exclusive remedy for any claim artsing, whether based in contract or bort, shall be lembed to the annumb paid by client for analyses. All claims, including those for negligence and any other cause whitesvever shall be deemed waked unless made in writing and received by claims, links thin thirty (10) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential changes, including, writing links interruptions, loss of use, or loss of profits incurrent by dent, its sublicities, affiliates or successions arising out to the performance of the services harbunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Colleg 2 treene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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

Released to Imaging: 7/28/2022 2:50:57 PM

PLEASE NOTE: Liability and Damages. Cardinal's liability and cherk's exclusive remedy for any claim arising, whether based in contract or tort, shall be lamited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whiteover shall be deemed walved 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 incidential or consequential damages, lackdong, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its sublicitaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based on any of the above statiol reasons or otherwise. Results relate only to this ample to this approximation counter, and it above the services.

Celleg ? there -

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	APACHE COLLINGTIN	Z	BILL TO		ANALYSIS REQ	REQUEST
Project Manager:	2					
Address:			Company:			
City:	State:	Zip:	Attn:			
Phone #:	Fax #:		Address:			
Project #:	Project Owner:	Wher:	City:			
Project Name:			State: Zip:			
2	UBOUL CTR				-	
	Rewon		Fax #:			
_		MATRIX	PRESERV SAMPLING	ō		
- 5 7 7 7		NERS WATER		X TPH		
Lab I.D.	Sample I.D.	(G)RAB OR # CONTAIN GROUNDW WASTEWAT SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	CL. BTEX EXT.:		
1 502	1 9 6 11		() () (1 1 1 1 19/12/1		
- LeASE NOTE: Leaving and Diamages. Canchests Bability analyses. At cleared including those for negligence and au service. In no event shall Cardinal be leave for incidential selflates or successors amaing out of or related to the part selflates or successors.	yet. Carlonal's Bability and clean's exclusive rem for registeries and any other cause wholscover is lable for incidental or consequential damages, ar related to the partisemance of services herein.	PLEASE NOT IS: Leasanity and Derrapids, Cardonal's addets and cannot be carded or and using whether based in contract or tool, shall be imade to the amount paid by the cleant to the analyses. All dams including those for neglegance and any other cards wellower shall be deemed waived unless made in writing and necked by Cardinal within 30 days after completion of the applicable service. In no west shall Cardinal be bable for indefentation consequential damages, including without finitation, business interruptions, tess of uses of pasts inclured by differ, its substitutions service. In no west shall Cardinal be bable for indefentation consequential damages, including without finitation, business interruptions, tess of uses or based in which a shall be determined by differ, its substitutions afflates or successors, unling out of or related to the partnements of services humans in functions in such clean is based upon any of the above stated testors or above.	ict or 10:1, shall be limited to the amount pain and received by Cardinal within 30 days atte s, loss of use, or loss of profits incurred by o the based upon any of the above stated re-	by the cleant for the completion of the applicable init, its substituties, ans or objectes.		
Relinquished By:		.19 Received By:	Oll ko	Phone Result: D Yes D No Fax Result: D Yes D No REMARKS:	Add'l Phone #: Add'l Fax #:	
Relinquished By:	Date: Time:	Received By:	The second	ALSO EMATL	i EMAEL	lin 1
Delivered By: (Circle One) Sampler - UPS - Bus - Other	Ľ.	Sample Condition Cool Infact	No CHECKED BY:	Ucricy. Com		7. Cours of Much) Thenk !
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Page 17 of 42



February 06, 2020

JEFFREY BROOM APACHE CORP - HOBBS 2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: CENTRAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/03/20 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_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 JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	02/03/2020	Sampling Date:	02/03/2020
Reported:	02/06/2020	Sampling Type:	Soil
Project Name:	CENTRAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: WALL 1 @ 1' 32.4844344 - 103.1726611 (H000320-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2020	ND	1.72	86.1	2.00	9.61	
Toluene*	<0.050	0.050	02/05/2020	ND	1.78	88.8	2.00	9.81	
Ethylbenzene*	<0.050	0.050	02/05/2020	ND	1.73	86.7	2.00	9.71	
Total Xylenes*	<0.150	0.150	02/05/2020	ND	5.20	86.6	6.00	9.93	
Total BTEX	<0.300	0.300	02/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8 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	48.0	16.0	02/05/2020	ND	432	108	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	02/04/2020	ND	221	111	200	3.94	
DRO >C10-C28*	<10.0	10.0	02/04/2020	ND	210	105	200	4.03	
EXT DRO >C28-C36	<10.0	10.0	02/04/2020	ND					
Surrogate: 1-Chlorooctane	86.1 9	% 41-142	•						
Surrogate: 1-Chlorooctadecane	81.1 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/03/2020	Sampling Date:	02/03/2020
Reported:	02/06/2020	Sampling Type:	Soil
Project Name:	CENTRAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: WALL 2 @ 1' 32.4844542 - 103.1726762 (H000320-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2020	ND	1.72	86.1	2.00	9.61	
Toluene*	<0.050	0.050	02/05/2020	ND	1.78	88.8	2.00	9.81	
Ethylbenzene*	<0.050	0.050	02/05/2020	ND	1.73	86.7	2.00	9.71	
Total Xylenes*	<0.150	0.150	02/05/2020	ND	5.20	86.6	6.00	9.93	
Total BTEX	<0.300	0.300	02/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 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	48.0	16.0	02/05/2020	ND	432	108	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	02/04/2020	ND	221	111	200	3.94	
DRO >C10-C28*	<10.0	10.0	02/04/2020	ND	210	105	200	4.03	
EXT DRO >C28-C36	<10.0	10.0	02/04/2020	ND					
Surrogate: 1-Chlorooctane	86.8	% 41-142							
Surrogate: 1-Chlorooctadecane	83.2	% 37.6-14	7						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/03/2020	Sampling Date:	02/03/2020
Reported:	02/06/2020	Sampling Type:	Soil
Project Name:	CENTRAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: WALL 3 @ 1' 32.4844644 - 103.1726517 (H000320-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2020	ND	1.72	86.1	2.00	9.61	
Toluene*	<0.050	0.050	02/06/2020	ND	1.78	88.8	2.00	9.81	
Ethylbenzene*	<0.050	0.050	02/06/2020	ND	1.73	86.7	2.00	9.71	
Total Xylenes*	<0.150	0.150	02/06/2020	ND	5.20	86.6	6.00	9.93	
Total BTEX	<0.300	0.300	02/06/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2 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	64.0	16.0	02/05/2020	ND	432	108	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	02/04/2020	ND	221	111	200	3.94	
DRO >C10-C28*	224	10.0	02/04/2020	ND	210	105	200	4.03	
EXT DRO >C28-C36	76.5	10.0	02/04/2020	ND					
Surrogate: 1-Chlorooctane	92.4 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	99.6 9	% 37.6-14	7						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/03/2020	Sampling Date:	02/03/2020
Reported:	02/06/2020	Sampling Type:	Soil
Project Name:	CENTRAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: WALL 4 @ 1' 32.4844604 - 103.1726332 (H000320-04)

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	02/06/2020	ND	1.72	86.1	2.00	9.61	
Toluene*	<0.050	0.050	02/06/2020	ND	1.78	88.8	2.00	9.81	
Ethylbenzene*	<0.050	0.050	02/06/2020	ND	1.73	86.7	2.00	9.71	
Total Xylenes*	<0.150	0.150	02/06/2020	ND	5.20	86.6	6.00	9.93	
Total BTEX	<0.300	0.300	02/06/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2 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	32.0	16.0	02/05/2020	ND	432	108	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	02/04/2020	ND	221	111	200	3.94	
DRO >C10-C28*	198	10.0	02/04/2020	ND	210	105	200	4.03	
EXT DRO >C28-C36	82.1	10.0	02/04/2020	ND					
Surrogate: 1-Chlorooctane	90.5 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	104 %	6 37.6-14	_						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/03/2020	Sampling Date:	02/03/2020
Reported:	02/06/2020	Sampling Type:	Soil
Project Name:	CENTRAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' 32.4844576 - 103.1726389 (H000320-05)

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	02/06/2020	ND	1.72	86.1	2.00	9.61	
Toluene*	<0.050	0.050	02/06/2020	ND	1.78	88.8	2.00	9.81	
Ethylbenzene*	<0.050	0.050	02/06/2020	ND	1.73	86.7	2.00	9.71	
Total Xylenes*	<0.150	0.150	02/06/2020	ND	5.20	86.6	6.00	9.93	
Total BTEX	<0.300	0.300	02/06/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
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	02/04/2020	ND	221	111	200	3.94	
DRO >C10-C28*	111	10.0	02/04/2020	ND	210	105	200	4.03	
EXT DRO >C28-C36	24.1	10.0	02/04/2020	ND					
Surrogate: 1-Chlorooctane	89.7 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.5 %	% 37.6-14	7						

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Celeg 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

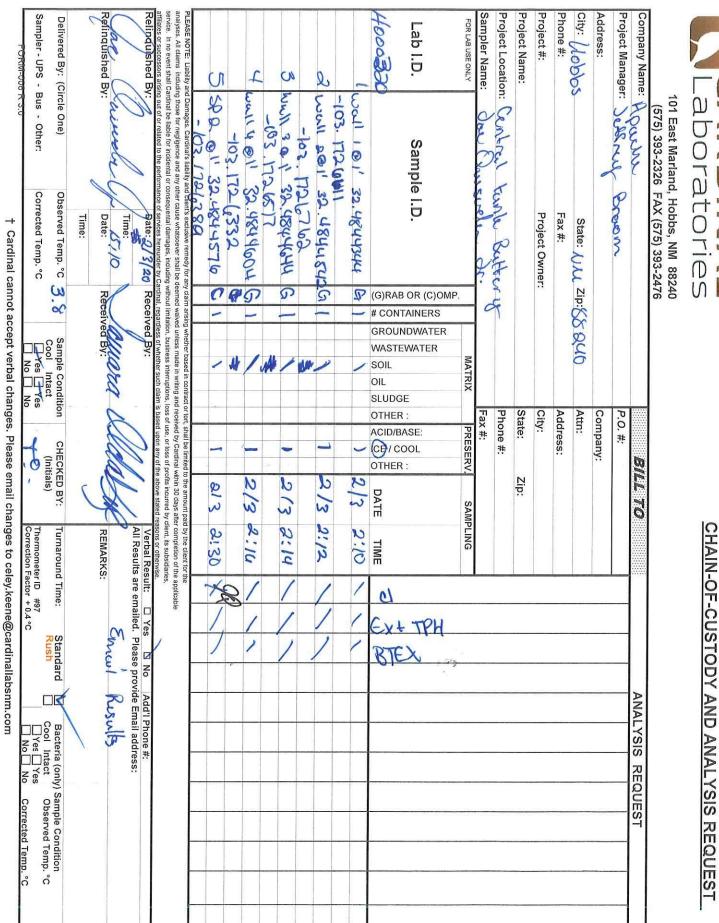
Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 8/4/2020 11:48:55 AM



Released to Imaging: 7/28/2022 2:50:57 PM

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Page 8 of 8



March 02, 2020

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

RE: WBDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/27/20 12:40.

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



NONE GIVEN

NONE GIVEN

Tamara Oldaker

Sample Received By:

Analytical Results For:

	APACHE C	ORP - HOBBS		
	BRUCE BA	KER		
	2350 W. M	1arland Blvd.		
	HOBBS NN	1, 88240		
	Fax To:	(575) 393-2432	2	
02/27/2020			Sampling Date:	02/27/2020
03/02/2020			Sampling Type:	Soil
WBDU CTB			Sampling Condition:	Cool & Intact

Sample ID: SP 2 @ 2' (H000633-01)

Received:

Reported:

Project Name:

Project Number:

Project Location:

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	02/28/2020	ND	1.79	89.6	2.00	9.17	
Toluene*	<0.050	0.050	02/28/2020	ND	1.80	89.9	2.00	9.14	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.81	90.3	2.00	8.59	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.29	88.2	6.00	8.69	
Total BTEX	<0.300	0.300	02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7 9	73.3-12	9						
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	02/29/2020	ND	210	105	200	0.0833	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	202	101	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	99.9 \$	% 44.3-14	4						

Cardinal Laboratories

*=Accredited Analyte

Celeg 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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 8/4/2020 11:48:55 AM

Delivered By: (Circle One) Observed Temp. °C Sample Condition Sampler - UPS - Bus - Other: Corrected Temp. °C Tes FORM-006 R 3.0 Tes No FORM-006 R 3.0 † Cardinal cannot accept verbal change	Rélinquished By:	5 5 0 4		1 spa@a' & 1 1	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	FOR LAB USE ONLY MATRIX	Sore Quesale	Project Location: WBDU Control Tout R. How	Project Owner:	Fax #:	City: Hobbs State: NUN Zip: 88240	Address:	Project Manager: Jeff Bream	Company Name: Apache	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	Laboratories
d Temp. °C Q, Pres Pres Pres Pres Pres Pres Pres Pres	All Results are emailed. Please provide Email address:	ые		1 2/27 12:04 1 1	SLODGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE M BTEX EXTTP	PRESERV. SAMPLING		Phone #:		Address:	Attn:	Company:	- 1	BILL TO ANALYSIS REQUEST		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4



April 13, 2020

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

RE: WBDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/09/20 10:49.

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

Whe Singh

Mike Snyder For 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:	04/09/2020	Sampling Date:	04/09/2020
Reported:	04/13/2020	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	WBDU CTB	Sample Received By:	Kelly Jacobson
Project Location:	NONE GIVEN		

Sample ID: W 3 (H001054-01)

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	04/09/2020	ND	1.96	98.0	2.00	0.736	
Toluene*	<0.050	0.050	04/09/2020	ND	1.96	98.1	2.00	0.412	
Ethylbenzene*	<0.050	0.050	04/09/2020	ND	1.98	98.9	2.00	0.505	
Total Xylenes*	<0.150	0.150	04/09/2020	ND	5.78	96.3	6.00	0.440	
Total BTEX	<0.300	0.300	04/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 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	04/09/2020	ND	416	104	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	04/09/2020	ND	195	97.7	200	0.111	
DRO >C10-C28*	<10.0	10.0	04/09/2020	ND	196	97.9	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	04/09/2020	ND					
Surrogate: 1-Chlorooctane	<i>93.7</i>	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	95.8	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



APAC	THE CORP - HOBBS
BRUG	CE BAKER
2350	W. MARLAND BLVD.
HOBI	3S NM, 88240
Fax 1	ō: (575) 393-2432

Received:	04/09/2020	Sampling Date:	04/09/2020
Reported:	04/13/2020	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	WBDU CTB	Sample Received By:	Kelly Jacobson
Project Location:	NONE GIVEN		

Sample ID: W 4 (H001054-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2020	ND	1.96	98.0	2.00	0.736	
Toluene*	<0.050	0.050	04/09/2020	ND	1.96	98.1	2.00	0.412	
Ethylbenzene*	<0.050	0.050	04/09/2020	ND	1.98	98.9	2.00	0.505	
Total Xylenes*	<0.150	0.150	04/09/2020	ND	5.78	96.3	6.00	0.440	
Total BTEX	<0.300	0.300	04/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	04/09/2020	ND	416	104	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	04/09/2020	ND	195	97.7	200	0.111	
DRO >C10-C28*	589	10.0	04/09/2020	ND	196	97.9	200	1.52	
EXT DRO >C28-C36	263	10.0	04/09/2020	ND					
Surrogate: 1-Chlorooctane	84.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.7	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For 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 SM4500CI-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

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

T

Company Name: apac	ouche Corporation		BILL TO		ANALYSIS REQUEST	
Project Manager: Bruce	8		P.O. #:			_
Address:		0	Company:			
City:	State: Zip:	10.55 10.55 10.55	Attn:			
Phone #:	Fax #:	A	Address:			
Project #:	Project Owner:	0	City:			
Project Name: LJBOM	CTB	0	State: Zip:			
Project Location: 1. BUU	1 478	7	Phone #:			
Sampler Name: Jeff /	Sum	T	Fax #:			
		MATRIX	PRESERV. SAMPLING	ING		
	CIOMP	ERS ATER ER			r //	
Lab I.D. Sa	Sample I.D.	# CONTAINE GROUNDWA WASTEWATE SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	TIME CC – BTEX EXT. TI		
1 603	6		4/5/20 00	1 1 1 54.80		-
2 64	2		4/4/30 6	0552 V V V		
PLEASE NOTE: Liability and Damages, Carding analyses, All claims including those for negligen service. In no event shall Cardinal be liable for ir affiliates or successors arising out of or related to	PLEASE NOTE: Lability and Damages. Cardinal's lability 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 cleaned waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of ruse, or loss of profits incurred by client, its subsidiaries, affiliates or successful arising out of or related to the performance of services hereunder by Cardinal, regardinal, regardiess of whether such claim is guesed upon any of the above stated reasons or otherwise.	aim arising whether based in contract or ned waived unless made in writing and re out limitation, business interruptions, loss nal, regardless of whether such claim is b	tort, shall be limited to the amount paid by ceived by Cardinal within 30 days after co s of use, or loss of profits incurred by clien tased upon any of the above stated reaso	aid by the client for the ther completion of the applicable / client, its subsidiaries, reasons or otherwise.	-	
Relinquished By:	Time: $\frac{1}{6}$	Received By:	AV	Verbal Result: □ Yes □ No Add'l Phone #: All Results are emailed. Please provide Email address:	□ No Add'I Phone #: ase provide Email address:	
Relinquished By:		Received By:	77	REMARKS:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 3.7 °C Corrected Temp. °C	Sample Cone Cool Intac	CHECKED BY:	Turnaround Time: Star Rus	ndard थ Bacteria (only) S h □ Cool Intact □ Yes □ Yes	
FORM-008 R 3.0	† Cardinal can	not accept verbal chang	ges. Please email chang	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	linallabsnm.com	
		not accept verbar chang	Jes. Flease eiliali chaily	es in celey.keelie@calu	IIIIdiidustiiti.Cutti	

Received by OCD: 8/4/2020 11:48:55 AM



101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 34 of 42



May 12, 2020

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

RE: WBDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/08/20 11:15.

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:	05/08/2020	Sampling Date:	05/08/2020
Reported:	05/12/2020	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kelly Jacobson
Project Location:	NONE GIVEN		

Sample ID: W 4 (H001290-01)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2020	ND	2.03	102	2.00	5.11	
Toluene*	<0.050	0.050	05/11/2020	ND	2.00	99.9	2.00	6.15	
Ethylbenzene*	<0.050	0.050	05/11/2020	ND	2.01	101	2.00	6.06	
Total Xylenes*	<0.150	0.150	05/11/2020	ND	5.84	97.4	6.00	5.33	
Total BTEX	<0.300	0.300	05/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8 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	05/09/2020	ND	198	99.2	200	0.873	
DRO >C10-C28*	<10.0	10.0	05/09/2020	ND	198	99.0	200	0.969	
EXT DRO >C28-C36	<10.0	10.0	05/09/2020	ND					
Surrogate: 1-Chlorooctane	95.9 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane									

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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 8/4/2020 11:48:55 AM

CARDINAL		
Laboratories	CHAIN-OF-CUSTO	CUSTODY AND ANALYSIS REQUEST
101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		
	BILL TO	ANALYSIS REQUEST
6	P.O. #:	- 0
Address:	Company:	
City: State: Zip:	Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name: WBDU CTB	State: Zip:	ž
Project Location: USDU CTB	Phone #:	
Sampler Name: J. Journ	Fax #:	
RS TER	PRESERV. SAMPLING	
(G)RAB OR (C # CONTAINEF GROUNDWAT WASTEWATE SOIL OIL	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME BTEX EXT: T	
1 WY	2 2 25 25 25 V	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount pad by the client for the analyses. All claims including these for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be libele for indental or consequential damages, including whother threat interruptions, loss of uses of profits incurred by client, its subsidiaries, artifiates or successors arising out for realide to the performance of services here here to the interruptions. Joss of uses of profits incurred by client, its subsidiaries,	and received by Cardinal within 30 days after completion of the applicable minimum state of the subsidiaries.	
$\frac{\text{Date:}}{S/B/W}$ $\frac{100000}{\text{Time:}}$	Verbal Result: All Results are em	□ Yes □ No Add'I Phone #: ailed. Please provide Email address:
Relinquished By: Daté? Received By: Time:	REMARKS:	~
One) Observed Temp. °C Sample Co Cool Lat - Other: Corrected Temp. °C No	act (Initials) Yes MS Correction Factor + 0.4-90 HUN	Bacteria (only) S Cool Intact Yes Yes
T Cardinal cannot accept verbal c	ges. Please email changes to celey.keene@c	nallabsnm.com

Page 38 of 42

Page 4 of 4







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

District IV 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

COMMENTS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	9500
	Action Type:
	[C-141] Release Corrective Action (C-141)
COMMENTS	

COMMENTS

Created By		Comment Date
jharimon	Closure approved on 07/01/2021 by Bradford Billings	7/28/2022

COMMENTS

Page 41 of 42

Action 9500

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

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Created By Condition Condition Date 7/28/2022 jharimon None

CONDITIONS

Action 9500

Page 42 of 42