

DAVID FEATHER ENVIRONMENTAL SUPERVISOR DIRECT: (432) 818-1615 E-MAIL: DAVID FEATHER @ APACHECORP.COM

November 11, 2019

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

RE: 2RP-4080 Lee Federal 44

Mr. Billings,

In compliance with 19.15.29.15(B) NMAC and the agreement submitted by Apache Corporation on November 8, 2018, Apache Corporation is submitting information related to closure for the release occurring January 7, 2017. Apache is respectfully submitting the closure report based on studies and remediation occurring in 2019 that demonstrate the site meeting the requirements of the agency. Unless further information is requested by NMOCD, Apache Corporation considers this release closed.

If there are any questions, please feel free to contact me by telephone at 432-818-1615 or by e-mail at David.Feather@ApacheCorp.com.

Sincerely,

David Feather Environmental Supervisor Apache Corporation - Permian Basin Region

Attachment: Closure Report Dated November 8, 2019

APACHE CORPORATION - PERMIAN BASIN REGION - 303 VETERANS AIRPARK LANE, STE 3000, MIDLAND, TEXAS 79705



2350 W Marland Blvd Hobbs, NM 88240

Closure Report

November 11, 2019

Re: Lee Federal 44 API# 30-015-40031 Case # 2RP-4080

To: Bradford Billings

New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department 1220 South St. Francis Dr. Santa Fe, NM 87505

On January 7, 2017 a release occurred due to a poly line froze and ruptured resulting in the loss of fluids. An initial C-141 was submitted and approved on January 17, 2017. The Lee Federal 44 (GPS: 32.8263931, -103.88871) is located east of Loco Hills, New Mexico in unit letter B section 20 township 17S range 31E. It is public knowledge that there is no known groundwater in township 17S range 31E.

On April 12, 2019 Apache Corporation conducted delineation utilizing a backhoe at five sample points throughout the release area. Each sample point was extended to six feet below ground surface with samples collected in 1 foot intervals and field titrated for chlorides. Representative grab samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Sample point BH1R was above standards at the surface for chlorides and TPH.

On May 29, 2019 Apache Corporation excavated the area around sample point BH1R to a depth of one foot below ground surface. Final five point bottom and wall samples were collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated soil was hauled to a NMOCD approved facility and the site was backfilled with clean imported topsoil and contoured to the surrounding area. The site was seeded with BLM # 2.

Apache Corporation has completed remediation to below NMOCD table one standards and respectfully request that 2RP-4080 be closed.

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

Bruce Baker

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

strict 1 25 N. French Dr., Hobbs, NM 88240 strict II 1 S. Fint St., Artesia, NM 88210 strict III 00 Rio Brazos Road, Aztee, NM 87410 <u>strict IV</u> 220 S. St. Francis Dr., Santa Fe, NM 87505	NM te of New Mexico berals and Natural Resources onservation Division South St. Francis Dr. nta Fe, NM 87505			ARTESIA DISTRICT JAN 16 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC. RECEIVED					
Relea	ase Notific	cation an	nd Co	rrective A	ction	1			
NARITNI950000		OP	ERAT	OR		🕅 Initia	al Report		Final Repo
Name of Company Apache Corporation	813	Cont	act Bru	ice Baker					that rep
Address 2350 W Marland Street, Hobbs, NN	M 88240			lo. (432) 631-6	5982				
Facility Name Lee Federal 44		Pacil	ity Type	e Oil Well			_		
Surface Owner BLM	Mineral C	wner BLM				API No	. 30-015	40031	
	LOCA	TION O	F REL	EASE					
Unit Letter Section Township Range	Feet from the	North/South	-	Feet from the	East	West Line	County		
B 20 175 31E	330	FNL		1650		ŦEL	Eddy		1
		•							
	Latitude <u>32</u>	<u>8203931</u> EA	oogicaa	e <u>-103.88871</u>					
	NAT	URE OF							1
Type of Release Produced water / Oil				Release 6 harre	ls of		Recovered rels of oil	4 barrels	of water
Source of Release flow line				our of Occurrent			Hour of D	icovory	1/7/2017
		1/7	7/2017			Date and		iscovery	112011
Was Immediate Notice Given?			If YES, To Whom?						
Yes No Not Require			ed Shelly Tucker (BLM) - email Mike Bratcher (NMOCD)-email						
			-		_		(NMOCD)	-email	
By Whom? Bruce Baker Was a Watercourse Reached?		Da	ite and H	our 1/9/2017 at	10:14 a	.m.	(NMOCD)	-email	
By Whom? Bruce Baker		Da	ite and H		10:14 a	.m.	(NMOCD)	-email	
By Whom? Bruce Baker Was a Watercourse Reached? Yes S If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action i The poly flow line ruptured due to freezing tempe standing fluid. The line was repaired. Describe Area Affected and Cleanup Action Take The entire release was in the pasture south o I hereby certify that the information given above i	No Taken.* ratures. The wo	Da If '	ite and H YES, Vol	our 1/9/2017 at lume Impacting te the release and knowledge and n	d 10:14 a the Wate	um truck w	as dispatch	ned to pick	les and
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Operator/Responsible Party,

The OCD has received the form C-141 you provided on $\underline{i/16/17}$ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number $\underline{3RP-408D}$ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District $\frac{2}{2}$ office in $\frac{1}{1612 \times 14}$ on or before $\frac{2}{1611}$. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring
wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit
either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should
not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location
and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.grlswold@state.nm.us

Bratcher, Mike, EMNRD

From:	Baker, Larry <larry.baker@apachecorp.com></larry.baker@apachecorp.com>
Sent:	Monday, January 16, 2017 10:27 AM
To:	Bratcher, Mike, EMNRD; 'stucker@blm.gov'
Subject:	Lee Federal 44 Initial C-141
Attachments:	Lee Federal 44 initial C-141.doc

Ail,

Attached is the initial C-141 for the release that occurred at the above referenced site on 1/7/2017. Please let me know if you have any questions or wish to discuss. Thanks and have a good day.

1

Bruce Baker Apache Corporation Environmental Technician Northwest District Email: <u>larry.baker@apachecorp.com</u> Mobile: 432-631-6982

Form C-141 Page 3

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?	None (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. XX

- Field data
- Data table of soil contaminant concentration data
- **NXXX** Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- XXX Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD:111/11/2019 3:22:	20	PM
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orm C-141	State of New Mexico		
ge 4	Oil Conservation Division	Incident ID	
<u>ic</u> 4	On Conservation Division	District RP	
		Facility ID	
		Application ID	
egulations all operators are requine bublic health or the environment. ailed to adequately investigate an addition. OCD acceptance of a C- and/or regulations.	on given above is true and complete to the best of my red to report and/or file certain release notifications a The acceptance of a C-141 report by the OCD does and remediate contamination that pose a threat to group 141 report does not relieve the operator of responsible	nd perform corrective actions for releases which not relieve the operator of liability should their op ndwater, surface water, human health or the enviro lity for compliance with any other federal, state, o	may endanger erations have onment. In
Printed Name: Bruce Baker	Title: Senior Environmenta	l Technician	
Signature: Bruce Ba	lun Date: 1	1/8/2019	
Email: Larry,Baker@apacheec	Telephone: <u>432.631.</u>	5982	
DCD Only			
Received by:		Date:	
		1	

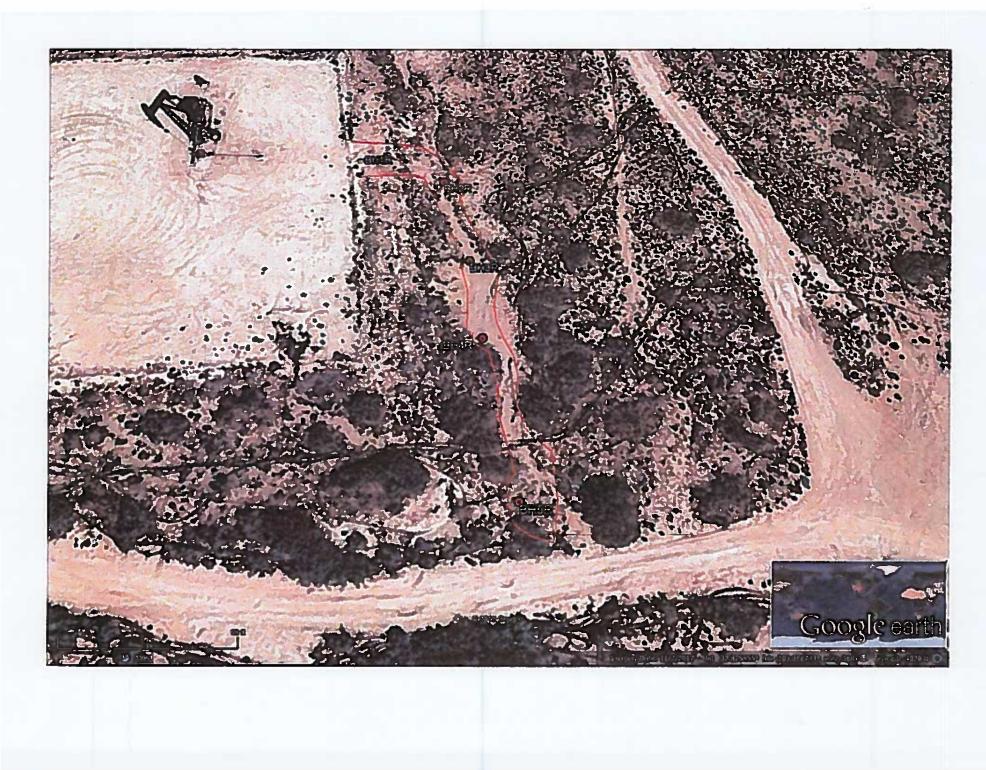
Form C-141 Page 6 State of New Mexico Oil Conservation Division

Incident ID	nAB1701950999
District RP	2RP-4080
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11 NMAC
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release no ifications 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 commination 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 (ederal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Bruce Baker Title: Senior Environmental Technician Signature: Bruce Baker Title: Senior Environmental Technician Email: Larry.Baker@apachecorp.com Telephone: 432.631.6982
OCD Only Received by: Date:
Received by: Date:
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: <u>Bradford Billings</u> Date: <u>07/20/2021</u> Printed Name: <u>Bradford Billings</u> <u>Title:</u> Envi.Spec.A



Lee Federal 44 Delineation Points

Labs in Red Field in Black

Map ID	Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
BH1R	4/12/2019	BH1R	S	2200	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	5130	1650	32.826137
			1'	549							1		-103.888514
	1		2'	512	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	104	37.2	
			3'	81									
			4'	262									
			5'	48	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	
			6'	29									
BH2R	4/12/2019	BH2R	l s	81								1 1	22.62600
DHZK	4/12/2019	BH2K	1'	260								-	32.826008
			2'	16	<0.050	<0.050	<0.050	<0,150	<0.200	(10.0	100		-103.888558
			3'	291	×0.050	×0.050	40.050	\$0,130	<0.300	<10.0	188	89.8	
			4'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	100 0000000000
			5'	274	×0.030	K0.030	×0.030	X0.150	×0.500	\$10.0	<10.0	<10.0	
			6'	32	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
				24	40.030	NU.030	-0.030	~0.150	\$0.300	\$10.0	10.0	~10.0	
BH3R	4/12/2019	BH3R	S	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.825917
			1'	.16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.888687
			2'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		_	3'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
			4ª	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
_			5'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
			6'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
BH4R	4/15/2019	BH4R	5	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.825825
			1'	16	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	-103.888849
			2'	32	< 0.050	<0.050	<0.050	-<0.150	<0. 300	~10.0	<10.0	<10.0	105.000015
			3'	32	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	-
			4'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
			5'	32	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	
			6'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
											A15-84		
BHSR	4/15/2019	BH5R	5	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.825753
			1'	287									-103.889012
			2'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
-			3'	439								·	
			4'	32	<0.050	<0.050	<0.050	<0,150	<0.300	<10.0	<10.0	<10.0	
			5'	431			-0.070	0.450					
			6'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	÷

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April 17, 2019

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

RE: LEE FEDERAL #044

Enclosed are the results of analyses for samples received by the laboratory on D4/12/19 16:35.

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.tcceq.texas.gov/field/ga/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-S)
Method EPA 524.2	Total Trihaiomethanes (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,

Celeg Li Keina

Celey D. Keene Lab Director/Quality Manager



April 22, 2019

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

RE: LEE FEDERAL #044

Enclosed are the results of analyses for samples received by the laboratory on 04/12/19 16:35.

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/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,

Celeg D. Kune

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/17/2019	Sampling Type:	Soll
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		
		116	

Sample ID: BH 1R SURFACE (H901365-01)

BTEX SOZIB	mg,	mg/kg		Analyzed By: MS				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2019	ND	2.12	106	2,00	0.356	
Toluene*	<0.050	0.050	04/16/2019	ND	2.26	113	2.00	0.640	
Ethylbenzene*	<0.050	0.050	04/16/2019	ND	2.26	113	2.00	0.214	
Total Xylenes*	<0.150	0.150	04/16/2019	ND	6.52	109	6.00	0.243	
Total BTEX	<0.300	0.300	04/16/2019	ND					

Surrogate 4-Bromofluorobenzene (PIE 117 % 73.3-129

Chloride, 5M4508CI-8	mg/k	9	Analyze	d By: AC					
Analyte	Result	Reporting Limit 16.0	Analyzed 04/16/2019	Method Blank	BS 400	% Recovery	True Value QC 400	RPD 0.00	Qualifier
TPH 8015M	mg/k	8	Analyze	d Sy: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GR0 C5-C10*	<50.0	50.0	04/16/2019	ND	207	103	200	0.562	
DRO >C10-C28*	5130	50.0	04/16/2019	ND	194	97.1	200	0.589	
EXT DRO >C28-C36	1650	50.0	04/16/2019	ND					
Surrogate: 1-Chlorooctane	103 %	41-142							
Surrogate: I-Chlorooctadecane	285 %	37.6-14	7						

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Analytical Results For:

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

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/17/2019	Sampling Type:	Soli
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		
			T

Sample ID: BH 1R 2' (H901365-02)

Result	Reporting t limit							
	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	04/16/2019	ND	2.12	105	2.00	0.356	
<0.050	0.050	04/16/2019	ND	2.25	113	2.00	0.640	
<0.050	0.050	04/16/2019	NĐ	2.26	113	2.00	0.214	
<0.150	0.150	04/16/2019	ND	6.52	109	6.00	0.243	
<0.300	0.300	04/16/2019	ND					
	<0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.150 0.150	<0.050	<0.050	<0.050 0.050 04/16/2019 ND 2.26 <0.050	<0.050 0.050 04/16/2019 ND 2.26 113 <0.050	<0.050 0.050 04/16/2019 ND 2.26 113 2.00 <0.050	<0.050 0.050 04/16/2019 ND 2.26 113 2.00 0.640 <0.050

Surrogate: 4-Bromofluorobenzene (PIL 113 % 73.3-129

Chloride, SM4500Cl-B	mg/	lig	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method 8lank	BS % Recovery	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	04/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyza	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2019	ND	207	103	200	0.562	
DRO >C10-C28*	104	10.0	04/16/2019	ND	194	97.1	200	0.589	
EKT DRO >C28-C36	37.2	10.0	04/16/2019	ND					
Surrogate: 1-Chlorooctane	104 9	6 41-142							-
Surrogate. 1-Chlorooctadecane	106 9	6 37.6-14	7						

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Analytical Results For:

APACHE CORP - HO8BS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/17/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		
			15

Sample ID: BH 1R 5' (H901365-03)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte Re	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2019	ND	2.12	106	2.00	0.356	
Toluene*	<0.050	0.050	04/16/2019	ND	2.26	113	2.00	0.640	
Ethylbenzene*	<0.050	0.050	04/16/2019	ND	2.25	113	2.00	0.214	
Total Xylenes*	<0.150	0.150	04/16/2019	ND	6.52	109	6.00	0.243	
Total BTEX	<0.300	0.300	04/16/2019	ND					

Surrogate: 4-Bromofiuorobenzene (PIC 117 % 73.3-129

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS				_	_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2019	ND	207	103	200	0.562	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	194	97.1	200	0.589	
EXT DRO >C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: 1-Chloroociane	96.8	% 41-142							
Surrogate: 1-Chlorooctadecane	92.0	% 37.6-14	2						

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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
48	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

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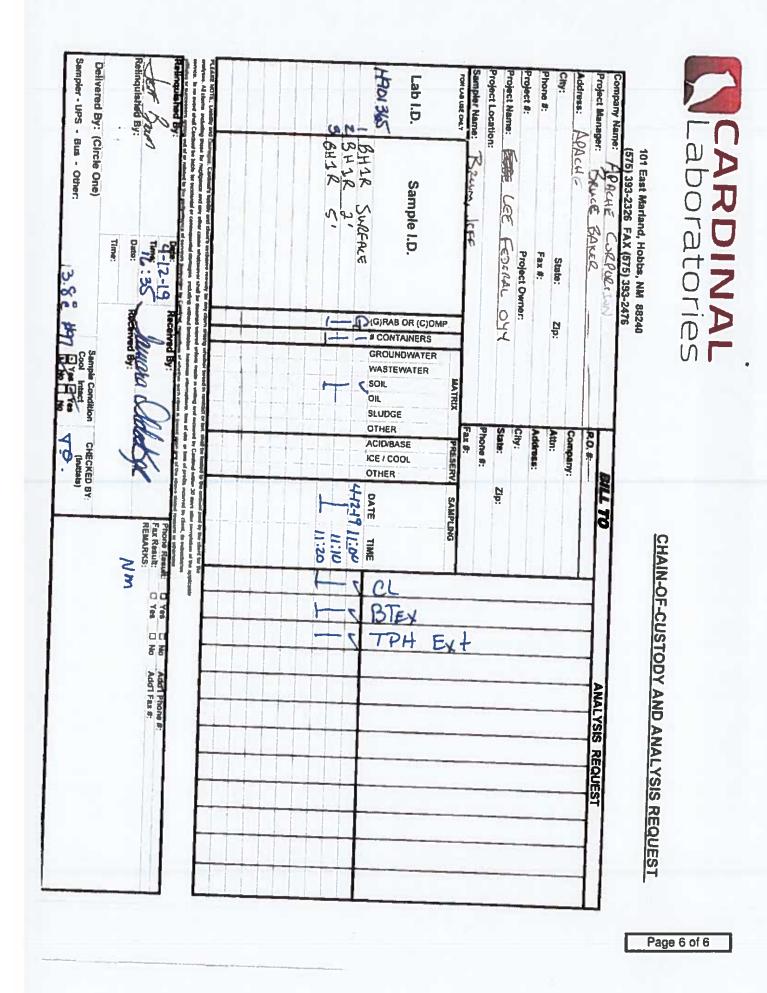
*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 6



Released to Imaging: 7/20/2021 10:50:30 AM



Analytical Results For:

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

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/22/2019	Sampling Type:	Soll
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: BH 2 R 2' (H901366-01)

BTEX 8021B mg/kg Analyzed By: MS Analyti Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Oualifier Benzene* < 0.050 0.050 04/16/2019 ND 2.12 106 2.00 0.356 Toluene* < 0.050 0.050 04/16/2019 ND 2.25 113 2.00 0.640 Ethylbenzene* <0.050 0.050 04/16/2019 ND 2.25 113 2.00 0.214 Total Xylenes* < 0.150 0.150 04/16/2019 ND 6.52 109 6.00 0.243 Total BTEX <0.300 0.300 04/16/2019 ND

Surrogate: 4-Bromofluorobenzene (PIC 119 % 73.3-129

Chiorida, SM4500CI-8	mg/	lleg	Analyze	d By: AC				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	ikg	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	04/16/2019	ND	207	103	200	0.562	
DRO >C10-C28*	188	10.0	04/16/2019	ND	194	97.1	200	0.589	
EXT DRO >C28-C36	89.8	10.0	04/16/2019	ND					
Surrogate: 1-Chlorooctane	93.4	% 41-142							
Surrogate: 1-Chlorooctadecane	101 9	37.6-14	7						

Cardinal Laboratories

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Analytical Results For:

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

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/22/2019	Sampling Type:	Soll
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		
	INCIAE GRAEIA	1	

Sample ID: 8H 2 R 4' (H901366-02)

BTEX 80218 mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Benzene* < 0.050 0.050 04/16/2019 ND 2.12 106 2.00 0.356 Toluene* <0.050 0.050 04/16/2019 ND 2.26 113 2.00 0.640 Ethylbenzene* <0.050 0.050 04/16/2019 NÞ 2.26 113 2.00 0.214 Total Xylenes* <0.150 0.150 04/16/2019 ND 6.52 109 6.00 0.243 Total BTEX ND <0.300 0.300 04/16/2019

Surrogate: 4-Bromofluorobenzene (PIE 113 % 73.3-129

Chioride, SM4500CI-B	mg,	/kg	Analyza	d By: AC					
Analyte Chloride	Result <16,0	Reporting Limit 16.0	Analyzed 04/16/2019	Method Blank ND	85 400	% Recovery 100	True Value QC 400	RPD 0.00	Qualifier
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	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: 1-Chlorooctane	86.5	% 41-142						-	
Surrogate, 1-Chlorooctadecane	88.2	% 37.6-14	7						

Cardinal Laboratories

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Analytical Results For:

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

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/22/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		
		1 C	

Sample ID: BH 2 R 6' (H901366-03)

STEK 80215	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	04/16/2019	ND	2.12	106	2.00	0.356	
Toluene*	<0.050	0.050	04/16/2019	ND	2.26	113	2.00	0.640	
Ethylbenzene*	<0.050	0.050	04/16/2019	ND	2.26	113	2.00	0.214	
Total Xylenes*	<0.150	0.150	04/16/2019	ND	6.52	109	6.00	0.243	
Total BTEX	<0.300	0.300	04/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE 112 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chioride	32.0	16.0	04/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyzo	d By: MS	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO > C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: 1-Chlorooctane	87.2	% 41-142					-		
Surrogate: 1-Chlorooctadecane	90.5	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/22/2019	Sampling Type:	Soli
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: BH 3 R SURFACE (H901366-04)

BTEX \$0218	mg/	'kg	Analyza	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2019	ND	2.12	106	2.00	0.356	
Toluene*	<0.050	0.050	04/16/2019	ND	2.26	113	2.00	0.640	
Ethylbenzene*	<0.050	0.050	04/16/2019	ND	2.26	113	2.00	0.214	
Total Xylenes*	<0.150	0.150	04/16/2019	ND	6.52	109	6.00	0.243	
Total BTEX	<0.300	0.300	04/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE 109 % 73,3-129

Chloride, SM4500Cl-B	ng/	'kg	Analyze	d By: AC				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: I-Chloroociane	80.2	% 41-142							
Surrogate: 1-Chlorooctadecane	81.5 1	% 37.6-14	7						

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Analytical Results For:

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

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/22/2019	Sampling Type:	Soli
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: BH 3 R 1' (H901366-05)

BIER OVILB	ing/		Analyzo	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2019	ND	2.12	106	2.00	0.356	
Toluene*	<0.050	0.050	04/16/2019	ND	2.26	113	2.00	0.640	
Ethylbenzene*	<0.050	0.050	04/16/2019	ND	2.26	113	2.00	0.214	
Total Xylenes*	<0.150	0.150	04/16/2019	ND	6.52	109	6.00	0.243	
Total BTEX	<0.300	0.300	04/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 108 % 73 3-129

Chioride, SM4500CI-B	mg	/kg	Analyza	d By: AC	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyza	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Hethod Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: 1-Chlorooctane	84.2	% 41-142	1						
Surrogate: 1-Chlorooctadecane	85.8	% 37.6-14	7						

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REASE NOTE: Labelity and Damages. Dardne's basely and cherrit exclusive namely for any dawn artung, whether based on cardeol at lart, shall be limbed to the amount public by cleat for anytyme. All cleans, encluding these for negligence and any ether churt whetherer shall be damand would urban mode in writing and excluded by Cardinal webs, barry (20) days after completions of the applicable period. In no overt that Cardinal is Suble for including the cardinal damand, and the public be and the service international of the service international of the service international of the services international of cardinal cardinal international of any of the services international of the services international of the services international of the services internation of the services international int

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Analytical Results For:

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

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/22/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: BH 3 R 2' (H901366-06)

BTEX 80218 mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank B\$ % Recovery True Value QC RPD Qualifier Benzene* <0.050 0.050 04/16/2019 ND 1.89 94.7 2.00 2.66 Toluene* < 0.050 0.050 04/16/2019 ND 2.05 103 2.00 3.89 Ethylbenzene* <0.050 0.050 04/16/2019 ND 2.03 102 2.00 5.16 **Total Xylenes*** < 0.150 0.150 04/16/2019 ND 6.21 103 6.00 5.86 Total BTEX < 0.300 0.300 04/16/2019 ND

73.3-129

Surrogate: 4-Bromofluorobenzene (PIC 100 %

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C5-C10*	<10.0	10.0	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: 1-Chloroociane	86.5 5	6 41-142							
Surrogate: 1-Chlorooctadecane	87.8 9	6 37.6-14	<i>i</i>						

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Analytical Results For:

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

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/22/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID; BH 3 R 3' (H901366-07)

DIEX BOALD	mg/	Kg	Ansiyzed by: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2019	ND	1.89	94.7	2.00	2,66	
Toluene*	<0.050	0.050	04/16/2019	ND	2.05	103	2.00	3.89	
Ethylbenzene*	<0.050	0.050	04/16/2019	ND	2.03	102	2.00	5.16	
Total Xylenes*	<0.150	0.150	04/16/2019	ND	6.21	103	6.00	5.86	
Total BTEX	<0.300	0.300	04/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.2 % 73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: 1-Chloroociane	83.2	% 41-142							
Surrogate. 1-Chlorooctadecane	84.8	% 37.6-147	7						

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Analytical Results For:

APACHE CORP - HOB8S BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/22/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location;	NONE GIVEN		

Sample ID: BH 3 R 4' (H901366-08)

STEX 80218 mg/kg Analyzed By: ms Reporting Limit Analyte Result Analyzed **Method Blank** BS % Recovery True Value QC RPD Qualifier Benzene* < 0.050 0.050 04/16/2019 ND 1.89 94.7 2.00 2,66 Toluene* < 0.050 0.050 04/16/2019 ND 103 2.05 2.00 3.89 Ethybenzene* < 0.050 0.050 04/16/2019 ND 2.03 102 Z.00 5,16 Total Xylenes* < 0.150 0.150 04/16/2019 ND 103 6.21 6.00 5.86 **Total BTEX** < 0.300 0.300 04/16/2019 ND

Surrogate: 4-Bromofluorobenzene (PIE 101 % 73.3-129

Chioride, SM4500CI-B	mg/	kg	Analyza	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C5-C10*	<10.0	10.0	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
Ext DRO > C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: I-Chloroociane	84.5 9	6 41-142							
Surrogate: I-Chlorooctadecane	87.3 9	6 37 6-14	7						

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Analytical Results For:

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

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/22/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: BH 3 R 5' (H901366-09)

DIEX 04710		តាម្នរ	Kġ.	Анауго	a sy: ms					
	Arialyte	Result	Reporting Umit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	04/16/2019	ND	1.89	94.7	2.00	2.66	
Toluene*		<0.050	0.050	04/16/2019	ND	2.05	103	2.00	3.89	
Ethylbenzen	e*	<0.050	0.050	04/16/2019	ND	2.03	102	2.00	5.16	
Total Xylene	S*	<0.150	0.150	04/16/2019	ND	6.21	103	6.00	5.86	
Total BTEX		<0.300	0.300	04/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE 99.4 % 73.3-129

Chloride, SM4508CI-B	mg)	/ Itgl	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyza	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: 1-Chloroociane	86.1	% 41.142							
Surrogate: 1-Chlorooctadecane	86.7	% 37.6.14	7						

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Analytical Results For:

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

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/22/2019	Sampling Type:	Soll
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		
1			

Sample ID: BH 3 R 6' (H901366-10)

BTEX 80218	mg/kg		Analyzad By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2019	ND	1.89	94.7	2.00	2.66	
loluene*	<0.050	0.050	04/16/2019	ND	2.05	103	2.00	3.89	
thylbenzene*	<0.050	0.050	04/16/2019	ND	2.03	102	2.00	5.16	
otal Xylenes*	<0.150	0.150	04/16/2019	ND	6.21	103	6.00	5.86	
Total BTEX	<0.300	0.300	04/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.1 % 73.3-129

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed Sy: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: 1-Chloroociane	88.3	% 41-142	2						
Surrogate: 1-Chlorooctadecane	88.4	% 37.6-14	7						

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS
	recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
88	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500CI-8 does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

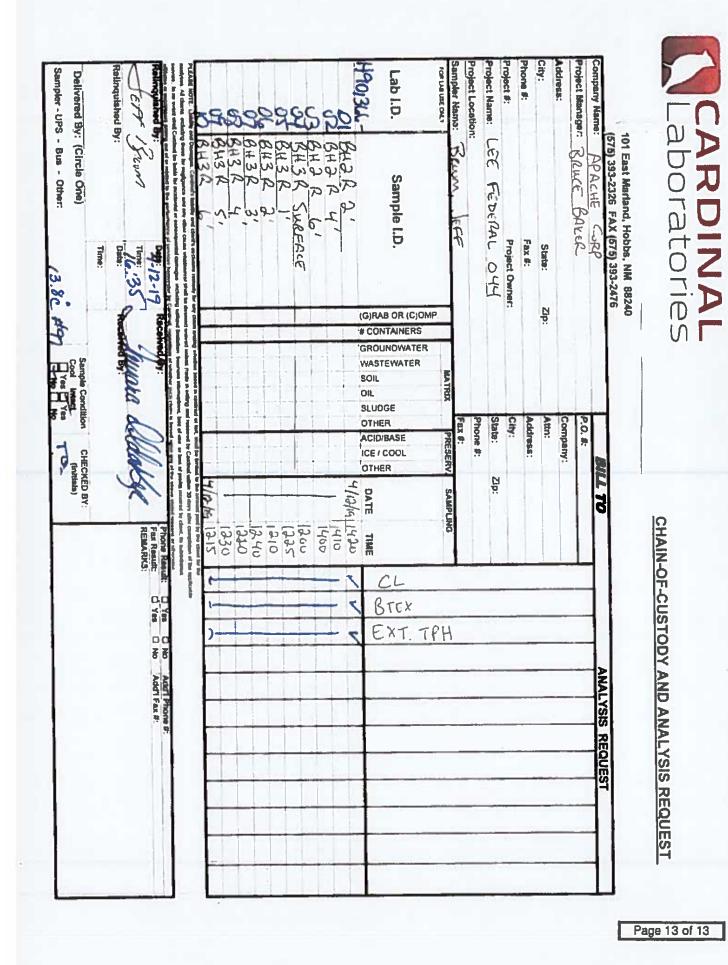
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Celey D. Keene, Lab Director/Quality Manager

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Released to Imaging: 7/20/2021 10:50:30 AM



April 22, 2019

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

RE: LEE FEDERAL #044

Enclosed are the results of analyses for samples received by the laboratory on 04/15/19 13:48.

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/ga/lab_accred_certif.htmj.

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,

Celegi Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 15



Analyticai Results For:

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

Received:	04/15/2019	Sampling Date:	04/15/2019
Reported:	04/22/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: BH4R SURFACE (H901374-01)

BTEX 80218 mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed 85 % Recovery Method Blank Oualifler **True Value QC** RPD Benzene* < 0.050 0.050 04/16/2019 ND 1.89 94.7 2.00 2.66 Toluene* < 0.050 0.050 04/16/2019 ND 2.05 103 2.00 3.89 Ethylbenzene* <0.050 0.050 04/16/2019 ND Z.03 102 2.00 5,16 Total Xylenes* <0.150 0.150 04/16/2019 ND 6.21 103 6.00 5.86 Total BTEX <0.300 0.300 04/16/2019 ND

73.3-129

Surrogate: 4-Bromofluorobenzene (PIC 99.6 %

Chlorido, SM4500CI-B Analyzed By: AC mg/kg Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride <16.0 16.0 04/16/2019 ND 400 100 400 0.00 **TPH 8015M** Analyzed By: MS mg/kg Analyte Result Reporting Limit Analyzed Method Blank 85 % Recovery True Value QC RPD Qualifier GRO C6-C10* <10.0 10.0 04/17/2019 ND 199 99.5 200 0.0542 DRD >C10-C28* <10.0 10.0 04/17/2019 ND 205 102 200 2.72 EXT DRO >C28-C36 <10.0 10.0 04/17/2019 ND Surrogate, 1-Chlorooctane 93.4 % 41-142

Surrogate: 1-Chlorooctadecane 90.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 15



Analytical Results For:

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

Received:	04/15/2019	Sampling Date:	04/15/2019
Reported:	04/22/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: BH4R 1' (H901374-02)

Total BTEX

BTEX 80219 Analyzed By: ms mg/kg Analyte Result **Reporting Limit** Analyzed Method Blank 85 % Recovery True Value QC RPD Benzene* < 0.050 0.050 04/16/2019 ND 1.89 94.7 2.00 2.66 Toluene* < 0.050 0.050 04/16/2019 ND 2.05 103 2.00 3.89 Ethylbenzene* <0.050 0.050 04/16/2019 ND 2.03 102 2.00 5.16 Total Xylenes* <0.150 0.150 04/15/2019 103 ND 6.21 6.00 5.86

04/16/2019

Surrogate: 4-Bromofluorobenzene (PIE 98.3 %

<0,300

0.300

73.3-129

Chloride, SM450DCI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	ßS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10*	<10.0	10.0	04/16/2019	ND	1 99	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO > C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: 1-Chloroociane	81.6 9	6 41-142	2						
Surrogate: 1-Chlorooctadecane	83.1 5	6 37.6-14	7						

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Analytical Results For:

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

Received:	04/15/2019	Sampling Date:	04/15/2019
Reported:	04/22/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: BH4R 2' (H901374-03)

BTEX 80218	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	04/16/2019	ND	1.89	94.7	2.00	2.66	
Toluene*	<0.050	0.050	04/16/2019	ND	2.05	103	2.00	3.89	
Ethylbenzene*	<0.050	0.050	04/16/2019	ND	2.03	102	2.00	5.16	
Total Xylenes*	<0.150	0.150	04/16/2019	ND	6.21	103	6.00	5.86	
Total BTEX	<0.300	0.300	04/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE 99.5 % 73.3-129

Chlaride, SM4500CI-B	mg/kg		Analyza	Analyzed Sy: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chlorida	32.0	16.0	04/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	ikg	Алађуза	d By: NS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
D(T DRO >C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: I-Chlorooctane	82.8	% 41-142							
Surrogate. I-Chlorooctadecane	83.7	% 37.6-14	7						

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Analytical Results For:

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

Received:	04/15/2019	Sampling Date:	04/15/2019
Reported:	04/22/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		
		Provide the second seco	

Sample ID: BH4R 3' (H901374-04)

TEX 80218	mg/	mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2019	ND	1.69	94.7	2.00	2.66	
Toluene*	<0.050	0.050	04/16/2019	ND	2.05	103	2.00	3.69	
Ethylbenzene*	<0.050	0.050	04/16/2019	ND	2.03	102	2.00	5.16	
Total Xylenes*	<0.150	0.150	04/16/2019	ND	6.21	103	6.00	5.86	
Total BTEX	<0.300	0.300	04/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE 99.5 % 73.3-129

Chiorida, SH450DCI-B	mg,	/kg	Analyza	d By: AC					11
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate. 1-Chloroociane	84.3	% 41-142							
Surrogate, 1-Chlorooctadecane	84.9	% 37.6-14	7						

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PLASE NOTE: Underly and Develops. Condex's babity and clearts makine normaly her any date provide shand in connect or tart, shall be install to the senant peed by deet for snatpass. All clears, including these for negligibles and any other challe installation public beared under a makin in unting and recorded by Cardinal within 1995 days offer connection of the senant peed by deet for snatpass. All clears, including these for negligibles and beckeling, weblick financies, buildings, beared under the offer the senant peed by deet, the senant peed by the senant peed by deet for snatpass. All clears, including these for negligibles and beckeling, weblick financies, buildings, bears of the senant peed by due, to beared by due, the senant peed by the senant peed by due, regardless of visibles much claim is based unit any of the stande stated makines or observice. Ready index performance and the setter segment all claimstarts.

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Analytical Results For:

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

Received:	04/15/2019	Sampling Date:	04/15/2019
Reported:	04/22/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: BH4R 4' (H901374-05)

STEX 8021B	mg,	'kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2019	ND	1.89	94.7	2.00	2.66	
Toluene*	<0.050	0.050	04/16/2019	ND	2.05	103	2.00	3.89	
Ethylbenzene*	<0.050	0.050	04/16/2019	ND	2.03	102	2.00	5.16	
Total Xylenes*	<0.150	0.150	04/16/2019	ND	5.21	103	6.00	5.86	
Total BTEX	<0.300	0.300	04/16/2019	ND					

73 3-129

Surrogate: 4-Bromofluorobenzene (PIE 98.7 %

Chloride, SH4509CI-B Analyte	mg/kg		Analyzad By: AC						
	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Umit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: I-Chloroactane	78.8 9	6 41-142	2						
Surrogate. I-Chlorooctadecane	79.9 9	6 37.6-14	7						

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REASE ADDE: Sub-lity and Damages. Condend's basing and cherch students remarks for any days strang, whether based is contents or line, shull be invested to the annualt point by claret for anylyses. All days, including these for maphysics, and any sther camer velationnes shull be downed waved, whether and acceled by Cardinal velate days (32) days after campitation of the applicable sorter. In no yound, shull be downed to be based by Cardinal and the trapped and acceled by Cardinal velate days, and/out, all based any state campitation of the applicable sorter. In no yound, shull be downed to the based by Cardinal based are campitated damages, including, waterst dwarpen, business trapped and, test of such or products of orlinging and acceled to the state or products of an adverted or accelerate acceleration or all based are campitated and accelerate acceleration of the applicable to the products of the survey based by Cardinal based are campitated, adding and accelerate acceleration of the applicable to the applicable or campitated damages, including, whether dwarpen, business trapped and, test of products of orbital based are campitated accelerated are accelerated and accelerate accelerated and accelerate accelerated and accelerated accelerated accelerated and accelerated accelerated

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Analytical Results For:

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

Received:	04/15/2019	Sampling Date:	04/15/2019
Reported:	04/22/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: BH4R 5' (H901374-06)

mg/	kg	Analyzed By: ms		=				
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	04/16/2019	ND	1.89	94.7	2.00	2.66	
<0.050	0.050	04/16/2019	ND	2.05	103	2.00	3.89	
<0.050	0.050	04/16/2019	ND	2.03	102	2.00	5.16	
<0.150	0.150	04/16/2019	ND	6.21	103	6.00	5.86	
<0.300	0.300	04/16/2019	ND					
	Result <0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofiuorobenzene (PIE 99.4 % 73.3-129

Chloride, SM4500CI-B	mg/l	kp	Analyze	d By: AC	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/l	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	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: 1-Chlorooctane	84.4 9	6 41-142							
Surrogate: 1-Chlorooctadecane	84.7 9	6 37.6-14	7						

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PLEASE NOTE: Lightly and Damages. Controls haldry and direct's exclusive remedy for any dawn arteng, whether hand in circless or text, stud its indust to the ansate paid by deast for patients. A dama, schulog beam for supports and any stille chains admitted with the state of the applicable source. In an over that Control to be back for indust at any dama of any stille chains admitted with the state of the applicable source. In an over that Control to be back for indust at any dama of any stille chains admitted in the state of the applicable source. In an over that Control to be back for industed or correspondent admitted within the state of the applicable source. In an over that Control to be back for industed or correspondent admitted in the state of the applicable source. In an over that be back for industed or correspondent admitted in the state of the applicable source. In an over that Control to be applied to correspondent admitted admitted with the state of the applicable source. In an over that the applicable source is admitted or correspondent admitted admitted admitted or text admitted in the state admitted in the state admitted in the state admitted in the state admitted admitted

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Analytical Pesults For:

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

Received:	04/15/2019	Sampling Date:	04/15/2019
Reported:	04/22/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		
	1		1

Sample ID: BH4R 6' (H901374-07)

BTEX 80218	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	04/16/2019	ND	1.89	94.7	2.00	2.66	
Toluene*	<0.050	0.050	04/16/2019	ND	2.05	103	2.00	3.89	
Ethylbenzene*	<0.050	0.050	04/16/2019	ND	2,03	102	2.00	5.16	
Total Xylenes*	<0.150	0.150	04/16/2019	ND	6.21	103	6.00	5.86	
Total BTEX	<0.300	0.300	04/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID 99.3 % 73.3-129

Chlorida, SM4500CI-B	mg/	kg	Anatyze	d By: AC	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: 1.Chlorooctane	80.3	6 41-142							
Surrogate: 1-Chlorooctadecane	80.9	37.6-147	,						

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REASE NOTE: Laboray and Derrups: Condex's behaviory and clearly and clearly and clearly and area of the strength of any diver streng, whether based to constant or the", shall be briefed to the ansature paid by clearly and years, inducing these her supported damages, including, whether based by clearly and the briefed by the strength of the graduates and any diver strength of the support of the strength of the support of the strength of the strength of the strength of the strength of the support of the strength of the str

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Analytical Results For;

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

Received: 04/15/2019 Sampling Date: 04/15/2019 **Reported:** 04/22/2019 Sampling Type: Soil LEE FEDERAL #044 **Project Name:** Sampling Condition: ** (See Notes) **Project Number:** NONE GIVEN Sample Received By: Jodi Henson NONE GIVEN **Project Location:**

Sample ID: BH5R SURFACE (H901374-08)

BTEX 80218 mg/kg Analyzed Sy: ms Result Analyte **Reporting Limit** Analyzed Method Blank BS True Value QC % Recovery RPD Ousilifier <0.050 Benzene* 0.050 04/16/2019 ND 1.89 94.7 2.00 2.66 Toluene* <0.050 0.050 04/16/2019 ND 2.05 103 2.00 3.89 Ethylbenzene* <0.050 0.050 04/16/2019 ND 2.03 102 2.00 5.16 Total Xylenes* <0.150 0.150 04/16/2019 ND 6.21 103 6.00 5.86 Total BTEX <0.300 0.300 04/16/2019 ND

Surrogate: 4-Bromofluorobenzene (PIE 99.8 % 73.3-129

Chioride, 5M4509CI-8	mg/l	9	Analyze	d By: AC	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/l	g	Analyza	d By: MS		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: 1-Chlorooctane	76.8 %	41-142							
Surrogate: 1-Chlorooctadecane	76.5 %	37.6-147							

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	04/15/2019	Sampling Date:	04/15/2019
Reported:	04/22/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: BH5R 2' (H901374-09)

BTEX 80218	mg;	/kg	Алајуzе	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Senzene*	<0.050	0.050	04/16/2019	ND	1.89	94.7	2.00	2.66	
Toluene*	<0.050	0.050	04/16/2019	ND	2.05	103	2.00	3.89	
Ethylbenzene*	<0.050	0.050	04/16/2019	ND	2.03	102	2.00	5.16	
Total Xylenes*	<0.150	0.150	04/16/2019	ND	6.21	103	6.00	5.86	
Total BTEX	<0.300	0.300	04/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE 99.7 % 73.3-129

Chioride, SM4500CI-B	mg,	/kg	Analyza	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chioride	16.0	16.0	04/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyza	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	04/16/2019	NÐ					
Surrogate: 1-Chlorooctane	80.2	% 41-142	8						
Surrogate: 1-Chlorooctadecane	80.2	% 37.6-14	7						

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PLZASE NOTE: Universe Controls liability and clarity and clarity and clarity and clarity for any data strong, whether based is contract or back, shall be limited to the annual part by clarit for analysis. All dears, including these for angingenes and any offer mast infutions, tables be deared valued in the applicable service, barries be deared valued in the applicable service by clarit in an over shall be deared by clarity (24) days dist an angent, barries be applicable service, barries be applicable to claraspected and applicable services be services barried by Cardinal, regardless of an and applicable services bereated and applicable services bereated and applicable services barries by clarity of the store stated values and applicable services barries of an and applicable services barries and and applicable services barr

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Analytical Results For:

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

Received:	04/15/2019	Sampling Date:	04/15/2019
Reported:	04/22/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		
		4	

Sample ID: BH5R 4' (H901374-10)

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 04/16/2019 ND 1,89 94.7 2.00 2.66 Toluene* <0.050 0.050 04/16/2019 ND 2,05 103 2,00 3.89 Ethylbenzene* < 0.050 0.050 04/16/2019 2.03 ND 102 2.00 5.16 Total Xylenes* <0.150 0.150 04/16/2019 ND 6.21 103 6.00 5.86 Total BTEX < 0.300 0.300 04/16/2019 ND

Surrogate: 4-Bromofluorobenzene (PIL 98.4 % 73.3-129

Chioride, SM4300CI-B	mg/	log	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10,0	04/16/2019	ND	199	99.5	200	0.0542	
DRO >C10-C28*	<10,0	10.0	04/16/2019	ND	205	102	200	2.72	
EXT DRO >C28-C36	<10.0	10,0	04/16/2019	ND					
Surrogate: 1-Chlorooctane	79.8	<mark>% 41-142</mark>	2						
Surrogate: 1-Chlorooctadecane	80.9	37.6-14	7						

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Analytical Results For:

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

Received: 04/15/2019 Sampling Date: 04/15/2019 **Reported:** 04/22/2019 Sampling Type: Soil **Project Name:** LEE FEDERAL #044 Sampling Condition: ** (See Notes) Project Number: NONE GIVEN Sample Received By: Jodi Henson **Project Location:** NONE GIVEN

Sample ID: BH5R 6' (H901374-11)

BTEX 80218 mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed Method Blank ₿S. % Recovery **True Value QC** RPD Qualifier Benzene* < 0.050 0.050 04/16/2019 ND 1.89 94.7 2.00 2.66 Toluene* <0.050 0,050 04/16/2019 ND 2.05 103 2.00 3.89 Ethylbenzene* < 0.050 0.050 04/16/2019 ND 2.03 102 2.00 5.16 Total Xylenes* <0.150 0.150 04/16/2019 ND 6.**2**1 103 6.00 5.86 **Total BTEX** < 0.300 0.300 04/16/2019 ND

Surrogate: 4-Bromofluorobenzene (PIE 98.5 % 73.3-129

Chloride, SM4500CI-B	mg/	kg	Analyza	d By: AC				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recuvery	True Value QC	RPD	Qualifier
Chioride	<15.0	16.0	04/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	ky	Analyza	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C5-C10*	<10.0	10.0	04/16/2019	ND	202	101	200	3.08	
DRO >C10-C28*	<10.0	10.0	04/16/2019	ND	189	94.4	200	5.43	
EXT DRO >C28-C36	<10.0	10.0	04/16/2019	ND					
Surrogate: 1-Chloroociane	98.8 9	6 41-142	2						
Surrogate: 1-Chlorooctadecane	93,6 9	6 37.6-14	7						

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REASE NOTE: Labelity and Spanings. Cardinal's labelity and claret's exclusive rearredy for any clane astang, whether beamd in contract or tert, shall be breaded in the animat precision grant panel by claret for analysis. All during, including these for nucleoperate and any other cases shallower shall be desired united or construction of the applicable service. In no event, shall Cardinal be follow for exclusive or analysis of united units and the section of control claurityters.

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
•	Chloride by SM4S00CI-8 does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	393-2326 FAX (575) 393-247 PACHE COLPOLATSON		BiLl	L 70			ANALYSIS	REQUEST	
Project Manager: Bi	RULE BAYER		P.O. #:			T			
Address:			Company:						
City:	State:	Zip:	Attn:						
Phone #:	Fax #:		Address:						
Project #:	Project Owne	r:	City:						
Project Name: LEE	FEDERAL 44		State: Zi	ip:					
Project Location:	EE FEDERAL YY		Phone #:						
Sampler Name:	FF BRIUM		Fax #:	32 <u>200</u> 1	2				
FOR LAB USE DHLY		MATRIX	PRESERV.	SAMPLING					
Lab I.D. 1901374 2 BH 3 BH 4 BH 5 BH 5 BH 6 BH	Sample I.D. YR SURFACE YR 1' YR 2' YR 3', YR 3', YR 4' YR 5' BHYR 6' SR SURFRIE	IGJRAB OR (CJOMF ICONTAINERS GROUNDWATER WASTEWATER SOIL	OTHER OTHER	DATE THE 1/15/15 JO & M JE US 10 15 10 25 10 30 1/200	2 HOT	BTE			
9 BH	SR 2'			12:00					
10 BH	15R 41		1	15/15 11:20	11				
PLEASE NOTE, Laddiny and Drinner analysis. All datases including frame in	nn. Candruf's finislity and davidy architere reveals for at degligance and any other cross substanton shall be	ang claste selang whether based or cold descript separal values made in willing	est or test, when we broked to the	to paraval gand by the classified in 30 days after completion of th	line opplication				
Relinquished By: Relinquished By: Delivered By: (Cir	Dete: 4/3/15 Time: /'42 Dete: 1'42 Dete: Time: rcle One) s - Other: 10.42/#9	Received By:	lensor	Phone Res Fax Rosult Remarks Sam TO BY:		ta	Add'I Phone Add'I Fax #: Ken 4 D		directly

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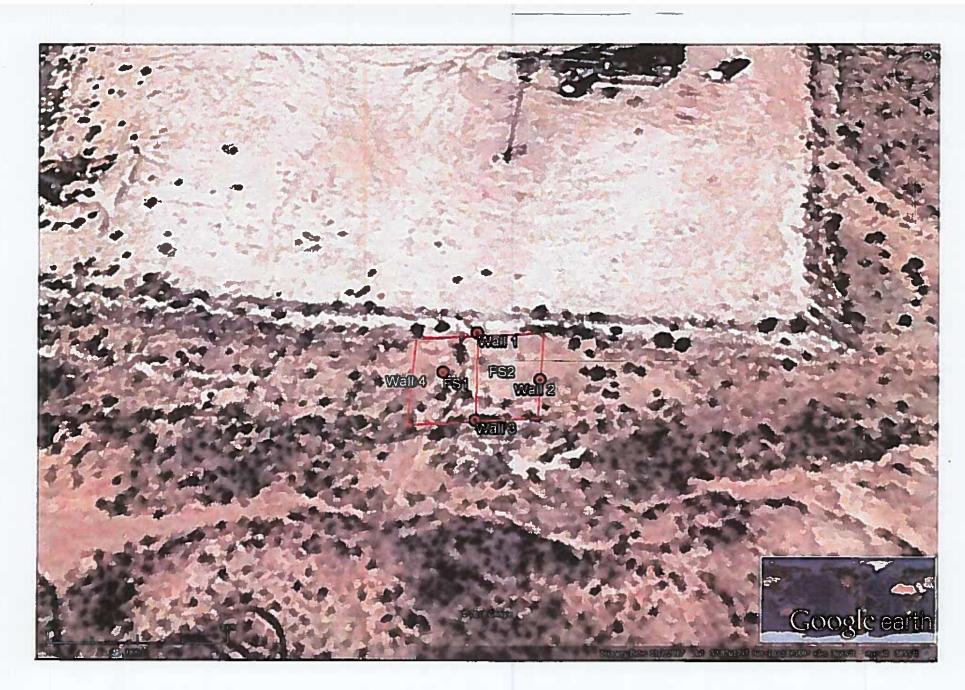
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'Y' State: Jerre Science Project Ownes: Jerre Science Project Ownes: Jerre Science Y' State: Zip: Jerre Science</td><td>(BIF) 333-2326 PARALY CLASSIGNTUM PLO *** BULL TO ANALYSIS REQUEST *** Project Downer: Clay: Lic: FSDC401. 'Y' State: Zip: Project Downer: Clay: Lic: FSDC401. 'Y' State: Zip: Project Downer: Clay: Lic: FSDC401. 'Y' State: Zip: Jerr Shun Bull to the state and the</td><td>(STF) 393-2326 FAX (STS) 393-2476 Allectif: Charlestic Charlestic Analysis REQUEST F. Bauce Batter P.O. 8: Company: Analysis REQUEST State: Zip: Attr: Company: State: Zip: Attr: Company: Project Owner: City: State: Zip: Let: FSD-GLa. YY State: Zip: Jerry Spinon PRESERV Sample No Preserve Sample No Sample I.D. Bit Sin Sin Sin Sin Sin Sin Sin Sin Sin Sin</td></td> | (675) 393-22476 BILL TO ANAL # Alter He (Laluantan) P.O. 8: ** Bance Brited Zip: ** Bance Brited Zip: ** Fax 8: Address: ** Project Owner: City: Lix Fabrical Hy State: ** Configuration Project Owner: Lix Fabrical Hy State: ** Configuration Project Owner: Carry State: ** Configuration Project Owner: Carry State: Sample I.D. ** ** ** ** ** Sample I.D. ** ** ** < | (675) 393-22476 Marche Children TLAN Bill TO ANALYSI: ". Allochte Children TLAN P.O. 6: Company: ". Bruce Brites Zip: Attn: Fax 8: Address: Company: Lie Febreau Y State: Zip: Project Owner: City: Zip: Lie Febreau Y State: Zip: Sample I.D. Bill Y Project Owner: City: Sample I.D. Bill Y Project Owner: City: Sample I.D. Bill Y Project Owner: City: BHSK 6 Bill Y Project Owner: City: Sample I.D. Bill Y Bill Y Date: Time: | (875) 393-2325 FAX (675) 393-2476 BILL TO ANALYSIS R Affacture P.O. #: BLUE BAKER P.O. #: State: Zip: Attn: Address: Project Dewner: City: Lie FEDERAL 'Y' Phone #: Project Dewner: City: Lie FEDERAL 'Y' Phone #: Project Dewner: City: Sample I.D. BUSE TO GO BAR 'Y' BHSR 6' Par #: State: BUSE To Deckne 'Y' State: BUSE To Deckne 'Y' State: BUSE To Deckne 'Y' Sample I.D. BUSE To Deckne 'Y' BHSR 6' BUSE To Deckne 'Y' | (875) 383-2276 BILL TO ANALYSIS REC AMACHE CALVERTUN P.O. 8: BRUCE BALER P.O. 8: State: Zip: Attn: Address: Project Owner: Citly: Lee F500640L YU State: Zip: State: Zip: Attn: Address: Project Owner: Citly: Lee F500640L YU State: Zip: Jeff Brawn Martex State: Zip: BHSK 6' Bartielle BHSK 6' Barter State Barter State Barter State BHSK 6' Barter State BHSK 6' Barter State Barter State Barter State Barter State Barter State </td <td>(875) 393-2235 ANALYSIS REQUE AMACHE Calludation P.O. 8: ANALYSIS REQUE State: Zip: Atta: Company: Atta: BLL TO ANALYSIS REQUE Company: Atta: Company: State: Zip: Atta: Company: Atta: Fax 8: Address: Zip: Project Owner: City: City: Lee FeDEdelo: YY State: Zip: Phone 8: Jeff Shurn Ball You on the state in the stat</td> <td>(BTS) 393-2326 FAX (STS) 393-2476 Aller (C (A) (C) (A) (Ta /A) Build for (C (A) (C) (A) (Ta /A) PO. 6: Company: Athr: Build for (C (A) (C) (A) (Ta /A) PO. 6: Company: Athr: Fax 6: Company: Corr (C) (C) (C) (C) (C) (C) (C) (C) (C) (C)</td> <td>(875) 193-2328 FAX (875) 393-2476 ARACHE CALOGRITAN P.O. 8: BRUE GARGE P.O. 8: State: Zip: Fax 8: Addres: Project Ownes: City: Lic: FEDEdat. 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Lee Federal 44 Remediation

Map ID	Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total	Total	GRO	DRO	EXT DRO	GP5 Coordinates
								Xylenes	BTEX				
Wall 1	5/29/2019	Wall 1 @ 1'	1'	192	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.826178, -103.888514
Wall 2	5/29/2019	Wall 2 @ 1'	1'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.826175, -103.888452
Wall 3	5/29/2019	Wall 3 @ 1'	1'	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.826129, -103.888473
Wall 4	5/29/2019	Wall 4 @ 1'	1'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.826127, -103.888530
F51	5/29/2019	FS1@1'	1'	32	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	32.826144, -103.888516
FS2	5/29/2019	FS 2 @ 1'	1'	16	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.826167, -103 888476

Received/by(00D:/11/11/2019;3:22:20 PM



June 04, 2019

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

RE: LEE FEDERAL #044

Enclosed are the results of analyses for samples received by the laboratory on 05/30/19 9:45.

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/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,

Celegit Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 9



Analytical Results For:

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

Received:	05/30/2019	Sampling Date:	05/29/2019
Reported:	06/04/2019	Sampling Type:	Soll
Project Name:	LEE FEDERAL #044	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oklaker
Project Location:	NONE GIVEN		
			1

Sample ID: WALL 1 @ 1' (H901900-01)

BTEX 80215 mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Benzene* <0.050 0.050 05/31/2019 ND 1.90 95.0 2.00 2.08 Toluene* < 0.050 0.050 05/31/2019 ND 2.05 103 2.00 4.89 Ethylbenzene* <0.050 0.050 05/31/2019 ND 97.5 1.95 2.00 3.06 Total Xylenes* <0.150 0.150 05/31/2019 98.6 ND 5.92 6.00 2.92 Total BTEX <0.300 0.300 05/31/2019 ND

Surrogate: 4-Bromofluorobenzene (PIE 105 % 73 3-129

Chloride, SM4500CI-B	mg,	/kg	Analyza	d By: JH					
Analyta	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chioride	192	16.0	06/03/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyza	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRD C6-C10*	<10.0	10.0	05/31/2019	ND	189	94.6	200	1.62	
DRO >C10-C28*	<10.0	10.0	05/31/2019	ND	195	97.5	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/31/2019	ND					
Surrogate: I-Chlorooctane	99 7	% 41-142							
Surroyate: I-Chlorooctadecane	102	6 37.6.14	7						

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RLASE MOTE: Libbiny and Demogen. Conducts basings and cherch entropy for any dawn prioring, whether based in contract on lard, whether based to contract on lard, whether based to contract on lard, whether based to be based by cherch for analyses. All dams, including these for registered and any other cause whether based on prior (20) days after completion of the applicable service. In no event shall be determined to including the including one consequence and including, sections thermatics of the applicable service. In no event shall be been determined on prior (20) days after completion of the applicable service. In no event shall be been determined on the prior (20) days after completion of the applicable service. In no event shall be been determined on the prior (20) days after completion of the applicable service.

Colog 2 Adres



05/29/2019

Cool & Intact

Tamara Oldaker

Soil

Analytical Results For:

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

 Received:
 05/30/2019
 Sampling Date:

 Reported:
 06/04/2019
 Sampling Type:

 Project Name:
 LEE FEDERAL #044
 Sampling Condition:

 Project Number:
 NONE GIVEN
 Sample Received By:

 Project Location:
 NONE GIVEN
 Sample Received By:

73.3-129

Sample ID: WALL 2 🔞 1' (H901900-02)

STEX 80218 mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS S Recovery True Value QC RPD Qualifier 8enzene* < 0.050 0.050 05/31/2019 ND 1.90 95.0 2.00 2.08 Toluene* < 0.050 0.050 05/31/2019 NĐ 2.05 103 2.00 4.89 Ethylbenzene* <0.050 0.050 05/31/2019 ND 1.95 97.5 2.00 3.06 Total Xylenes* <0.150 0.150 05/31/2019 ND 5.92 98.6 6.00 2.92 Total BTEX <0.300 0.300 05/31/2019 ND

Surrogate: 4-Bromofluorobenzene (PIL 106 %

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/03/2019	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 C5-C10*	<10.0	10.0	05/31/2019	ND	189	94.6	200	0.199	
DRO >C10-C28*	<10.0	10.0	05/31/2019	ND	189	94.7	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	05/31/2019	ND					
Surrogate: 1-Chiorooctane	92.4	% 41-142	2						
Surrogate. 1-Chlorooctadecane	94.2	% 37.6-14	7						

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05/29/2019

Cool & Intact

Tamara Oldaker

Soil

Analytical Results For:

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

 Received:
 05/30/2019
 Sampling Date:

 Reported:
 06/04/2019
 Sampling Type:

 Project Name:
 LEE FEDERAL #044
 Sampling Condition:

 Project Number:
 NONE GIVEN
 Sample Received By:

 Project Location:
 NONE GIVEN
 Sample Received By:

Sample ID: WALL 3 @ 1' (H901900-03)

Analyzed 05/31/2019	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
05/31/2019	ND					
	нŅ	1.90	95.0	2.00	2.08	
05/31/2019	ND	2.05	103	2.00	4.89	
05/31/2019	ND	1.95	97.5	2.00	3.06	
05/31/2019	ND	5.92	98.6	6.00	2.92	
05/31/2019	ND					
	05/31/2019 05/31/2019	05/31/2019 ND 05/31/2019 ND	05/31/2019 ND 1.95 05/31/2019 ND 5.92	05/31/2019 ND 1.95 97.5 05/31/2019 ND 5.92 98.6	05/31/2019 ND 2.05 103 2.00 05/31/2019 ND 1.95 97.5 2.00 05/31/2019 ND 5.92 98.6 6.00	05/31/2019 ND 2.05 103 2.00 4.89 05/31/2019 ND 1.95 97.5 2.00 3.06 05/31/2019 ND 5.92 98.6 6.00 2.92

Surrogate: 4-Bromofluorobenzene (PIE 106 % 73.3-129

Chloride, SM4500CI-B	mg/k	9	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/03/2019	ND	416	104	400	3.92	
TPH 8015M	mg/k	9	Analyze	d By: MS					555
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2019	ND	189	94.6	200	0.199	
DRO >C10-C28+	<10.0	10.0	05/31/2019	ND	189	94.7	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	05/31/2019	ND					
Surrogate: I-Chlorooctane	91.0 %	41-142							
Surrogate: 1-Chlorooctadecane	88.9 %	37.6-14	7						

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Analytical Results For:

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

Received:	05/30/2019	Sampling Date:	05/29/2019
Reported:	06/04/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oklaker
Project Location:	NONE GIVEN		

Sample ID: WALL 4 @ 1' (H901900-04)

BTEX 8021B mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Benzene* <0.050 0.050 05/31/2019 ND 1.90 95.0 2.00 2.08 Toluene* < 0.050 0.050 05/31/2019 ND 2.05 103 2.00 4.89 Ethylbenzene* < 0.050 0.050 05/31/2019 ND 1.95 97.5 2.00 3.06 **Total Xytenes*** <0.150 0.150 05/31/2019 ND 5.92 98.6 6.00 2.92 Total BTEX <0.300 0.300 05/31/2019 ND

Surrogate: 4-Bromofluorobenzene (PIC 105 % 73.3-129

Chioride, SM4500CI-B	mg/kg		Analyze	Analyzed By: 3H					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/03/2019	ND	416	104	400	3.92	
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	05/31/2019	ND	189	94.6	200	0.199	
DRO >C10-C28*	<10.0	10.0	05/31/2019	ND	189	94.7	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	05/31/2019	ND					
Surrogate: 1-Chlorooctane	95,3	% 41-142							
Surrogate: 1-Chlorooctadecane	95.0	% 37.6-14	7						

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FLGSE ACTE: Liability and Damages. Cardinal's bablity and clevel's sections namely for any class drawing, windows based to construct or sort, shall be bolled to the amount paid by cheel, for anytopic All class, anduding through the support and any close cause subclasses shall be dealed would entries made in writing and methods by Cardinal wolls (party (30) days after completions of the applicable sarvers; is no avoid aball Cardinal be faile for recipients of another through the support of the sarter state intermediate, bulkness intermediates, balances intermediates and any of the sorter state shall and the sarter state intermediate state cardinal and the sarter state intermediates.

Carlos i thereas



Analytical Results For:

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

Received: 05/30/2019 Sampling Date: 05/29/2019 Reported: 06/04/2019 Sampling Type: Soil **Project Name:** LEE FEDERAL #044 Sampling Condition: Cool & Intact **Project Number:** NONE GIVEN Sample Received By: Tamara Oldaker **Project Location:** NONE GIVEN

Sample ID: FS 1 @ 1' (H901900-05)

BTEX 80218 Analyzed By: ms mg/kg Analyte Qualifier Result Reporting Limit Analyzed Method Blank 8S % Recovery True Value QC RPD Bertzene* < 0.050 0.050 05/31/2019 ND 1.90 95.0 2.00 2.08 <0.050 Toluene* 0.050 05/31/2019 ND 2.05 103 2.00 4.89 Ethylbenzene* < 0.050 0.050 05/31/2019 ND 1.95 97.5 2.00 3.06 Total Xylenes* <0.150 0.150 05/31/2019 ND 5.92 98.6 6.00 2.92 Total BTEX <0.300 0.300 05/31/2019 ND

Surrogate: 4-Bromofluorobenzene (PIE 107 % 73.3-129

Chloride, SM4500CI-B	mg/kg		Analyza	Analyzed Sy: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/03/2019	ND	416	104	400	3.92	
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	05/31/2019	ND	189	94.6	200	0.199	
DR0 >C10-C28*	<10.0	10.0	05/31/2019	ND	189	94.7	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	05/31/2019	ND					
Surrogate: 1-Chloroociane	95,3	% 41-142							
Surrogate: 1-Chlorooctadecane	96.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Carley Literan



Analytical Results For:

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

Received:	05/30/2019	Sampling Date:	05/29/2019
Reported:	06/04/2019	Sampling Type:	Soil
Project Name:	LEE FEDERAL #044	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: FS 2 @ 1' (H901900-06)

mg,	mg/kg		Analyzed By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	05/31/2019	ND	1.90	95.0	2.00	2.08	
<0.050	0.050	05/31/2019	ND	2.05	103	2.00	4.89	
<0.050	0.050	05/31/2019	ND	1.95	97.5	2.00	3.06	
<0.150	0.150	05/31/2019	ND	5.92	98.6	6.00	2.92	
<0.300	0.300	05/31/2019	ND					
	Result <0.050 <0.050 <0.050 <0.150	Result Reporting Limit <0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIC 106 % 73.3-129 Chloride, SM4500Cl-B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chioride	16.0	16.0	06/03/2019	ND	416	104	400	3.92	
TPH 8015M n		'icg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2019	ND	189	94,6	200	0.199	
DRO >C10-C28*	<10.0	10.0	05/31/2019	ND	189	94.7	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	05/31/2019	ND					
Surrogate: 1-Chlorooctane	99.6	% 41-142	1						
Surrogate. I-Chlorooctadecane	102 5	6 37.6.14	7						

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*=Accredited Analyte

Cooling " treas



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

PEASE MOTE. Likelity and Develops. Cardina's facility and cleart's includes retractly for any claim second, whether based is contract or tent, shall be lowled to the semant paid by clear for anylytes. All develops excluding these for noglogories and any other cause shattanner shall be develop expect takins made its unless and paids of the Contrad within thinty (DC) days after completes of the Juplicity parts; Is not event shall Contrad for Bolds for including and contrad, of the Juplicity parts; Is not event shall Contrad for Bolds for including and contrad, and the second second shall contrad for any shall be devent and the termination and the second second

Carlong I think a

Celey D. Keene, Lab Director/Quality Manager

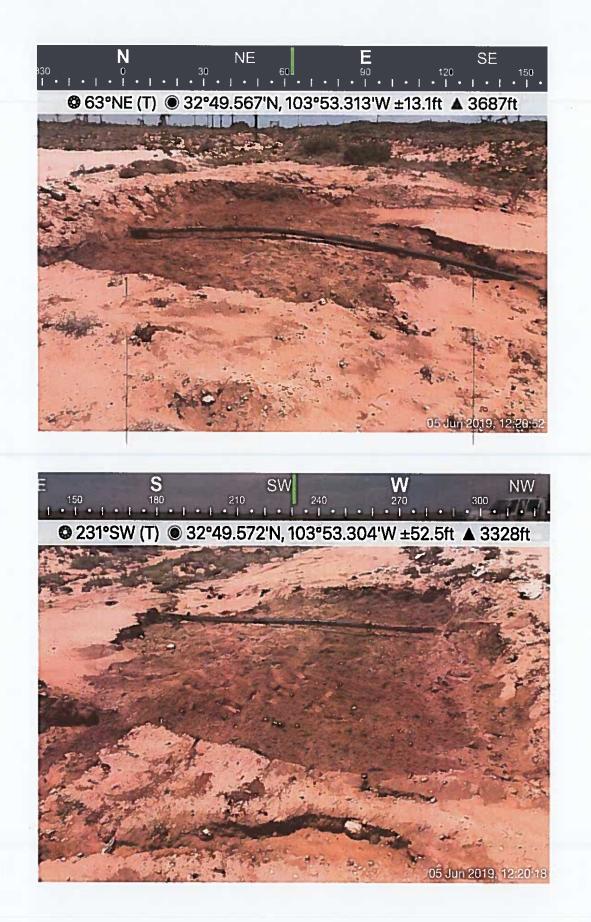
Page 8 of 9

apache	71/8	TO ANALYSIS REQUEST
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	Company:	
City: Stale:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	ner: City:	
ame:		
Project Location: LEF FEDERAL CHH	Phone #:	
Sampler Name: J. Beon	Fax #:	
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aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	2373
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	7/20/2021

CONDITIONS

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Action 2373