

303 Veterans Airpark Lane Midland, TX 79705

### **Remediation Plan**

December 21, 2020

*Re: LM Lambert Case #: NRM2024463389* 

### Background:

On 08/24/2020 a release occurred at the LM Lambert Battery due to a line failure resulting in the loss of fluid. The release (GPS: 32.60642, -103.28715) is located south of Monument, NM in unit letter B section 6 township 20S range 37E. A groundwater survey was conducted utilizing the NMOSE wells of record. The 2 nearest wells of record suggest groundwater is less than 50 feet with the shallowest well 20 feet to groundwater but water was not encounter during the soil bore to a depth of 35 feet. This suggest that groundwater is at minimum 37 feet indicated by data from the second well of record.

Beginning on 11/3/2020 through 12/3/2020 vertical delineation was conducted utilizing a backhoe to a depth of 13 feet. The surface and 1 foot samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX on 11/3/2020. Laboratory chloride results were below table one standards for release less than or equal to 50 feet to groundwater. The 2 feet to 13 feet samples were collected and submitted to a commercial laboratory for analysis of TPH and BTEX. Horizontal 5 point composite surface samples were collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

On 12/15/2020 a soil bore was conducted at SP 1 was advanced in regular intervals beginning at 15 feet and advanced to a total depth of 35 feet below ground surface. All samples were collected utilizing a split spoon and submitted to a commercial laboratory for analysis for TPH and BTEX. Laboratory results were below table one standards for TPH and BTEX at a depth of 20 feet.

### **Remediation Plan:**

Apache Corporation purposes that the top foot be excavated to a depth of 1 foot to remove the chloride contamination to below table one standards. Once the excavation is complete final 5 point bottom and wall samples will be collected not to exceed 200 square feet. Due to the release is inside an active facility within close proximity to processing equipment and the depth of contamination Apache Corporation will submit the final sample data and ask for deferment until system abandonment in the final report. All excavated soil (75 yards) will be hauled to a OCD approved disposal facility. The excavation will be backfilled with clean imported caliche. The remediation will be completed within 90 days of OCD approval of the plan.

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

Received by OCD: 12/21/2020 8:54:29 PM Submitted by;

Bruce Baker

*Environmental Technician Larry.baker@apachecorp.com Cell# 432-631-6982* 

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### Site Assessment/Characterization

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

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

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

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

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

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

Received by OCD: 12/21/20	20 8:54:29 PM State of New Mexic	20		Page 4 of 59
			Incident ID	NRM2024463389
Page 4	Oil Conservation Divi	sion	District RP	
			Facility ID	
			Application ID	
regulations all operators are public health or the environm failed to adequately investiga	mation given above is true and complete required to report and/or file certain relea nent. The acceptance of a C-141 report b ate and remediate contamination that pos c a C-141 report does not relieve the oper aker Baker pachecorp.com	use notifications and perform c by the OCD does not relieve the e a threat to groundwater, surfa	orrective actions for rele e operator of liability sh ace water, human health liance with any other fe ental Tech SR.	eases which may endanger ould their operations have or the environment. In
OCD Only Received by: Cristing	Eads	Date: 12/2	1/2020	

Received by OCD: 12/21/2020 8:54:29 PM Form C-141 State of New Mexico

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Oil Conservation Division

Incident ID	NRM2024463389
District RP	
Facility ID	
Application ID	

### **Remediation Plan**

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

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

<b>Deferral Requests Only:</b> Each of the following items must be conj	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around prodeconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complete	e to the best of my knowledge and understand that pursuant to OCD
	ertain release notifications and perform corrective actions for releases nee of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, neceptance of a C-141 report does not relieve the operator of
Printed Name: Larry Baker	Title: Environmental Tech SR.
Signature: Larry Baker	Date: 12/21/2020
Signature: <u>Larry Baker</u> email: larry.baker@apachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by: Cristina Eads	Date: 12/21/2020
$\Box$ Approved $\checkmark$ Approved with Attached Conditions of A	Approval Denied Deferral Approved
Signature: Juntur 2	Date: 03/12/2021

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### Water Rights Reporting System Online Meter Reading

### Received by OCD: 12/21/2020 8:54:29 PM New Mexico Office of the State Engineer Point of Diversion Summary

			rs are 1=N ers are sma			S	(NAD83 U		
Well Tag POD	Number	Q64 (	216 Q4	Sec	Tws	Rng	X	Y	
L 0.	3810	4	4 1	06	20S	37E	660286	3608580*	
Driller License:	111	Driller	Compar	y:	BU	RKE, EI	OWARD B.		
Driller Name:									
Drill Start Date:	03/09/1958	Drill Fi	nish Dat	e:	0.	3/09/195	8 Ph	ug Date:	
Log File Date:	03/19/1958	PCW R	cv Date				So	urce:	Shallow
Pump Type:		Pipe Dis	scharge	Size	:		Es	timated Yield	1:
Casing Size:	7.00	Depth Well:			8	6 feet	De	37 feet	
Wate	er Bearing Strati	fications:	To	p 1	Bottom	Descr	iption		
			4	0	68	Sands	tone/Gravel	Conglomerat	te
	Casing Per	forations:	To	p 1	Bottom				
			4	2	82				

\*UTM location was derived from PLSS - see Help

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

11/19/20 12:04 PM

POINT OF DIVERSION SUMMARY

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### Received by OCD: 12/21/2020 8:54:29 PM New Mexico Office of the State Engineer Point of Diversion Summary

			are l=N				(NAD83 U	(NAD83 UTM in meters)		
Well Tag POD	Number		16 Q4				X	Y		
L 0	1450		3 1	05	20S	37E	661393	3608698*		
Driller License:	46	Driller (	ompar	ıy:	AB	BOTT E	BROTHERS	COMPANY		
Driller Name:										
Drill Start Date:	05/19/1952	Drill Fin	ish Da	te:	0:	5/20/195	52 <b>Pl</b>	ug Date:		
Log File Date: 05/26/1952		PCW Re	PCW Rcv Date:			0/22/195	53 So	urce:	Shallow	
Pump Type:		Pipe Dis	Pipe Discharge Size Depth Well:				Es	Estimated Yield		
Casing Size:	7.00	Depth W				80 feet		Depth Water:		
Wate	er Bearing Stratif	ications:	To	p I	Bottom	Desci	ription			
-400 F 1488-00			-	50	80	Sands	stone/Grave	l/Conglomerat	e	
	Casing Perf	orations:	To	p I	Bottom					
				50	80	)				

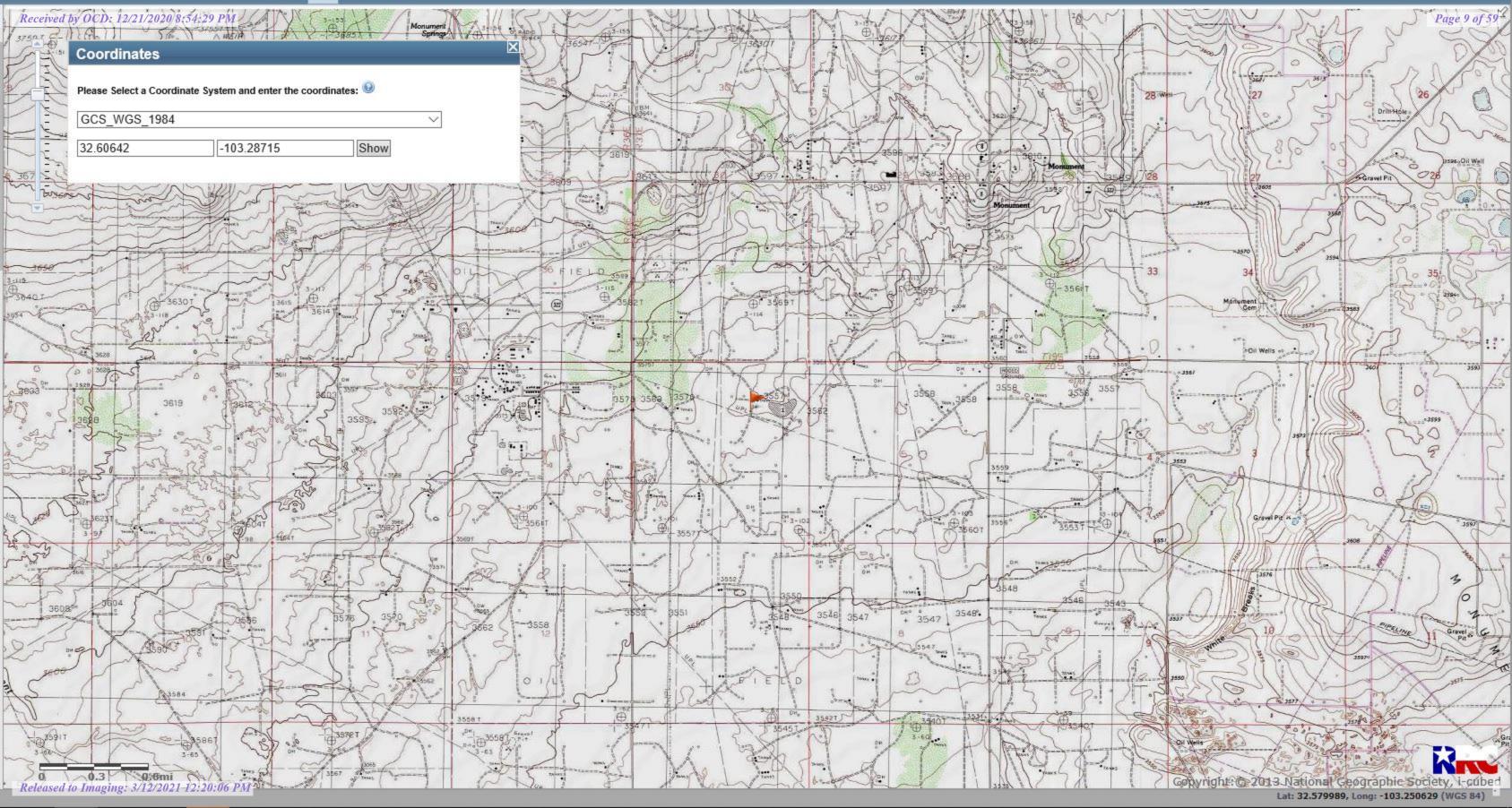
### \*UTM location was derived from PLSS - see Help

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

11/19/20 11:57 AM

POINT OF DIVERSION SUMMARY

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Google earth

lat 32.606243° lon -103.286622° elev 3565 ft eye alt 4004 ft 🕒

### NEDU Injection Line

Sample	Sample ID	Depth	Field	Chloride	Benzene	Toulene	Ethybenzene	Total	Total	GRO	DRO	EXT DRO	GPS Coordinates
Date			Chloride					Xylenes	BTEX				
Delineation an	d Horizontal Samp	oling											
													32.606524
11/3/2020	SP1	Surface	4,423	5120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.287159
11/3/2020		1'	356	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	300	437	
11/4/2020		2'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	88.4	119	
11/4/2020		3'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	88.8	89.5	
11/18/2020		4'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	77	96.3	
11/18/2020		5'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	150	161	
11/20/2020		6'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
11/20/2020		7'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	78.9	70.5	
11/30/2020		8'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	202	159	
12/3/2020		9'			<0.100	0.407	5.94	10.100	16.5	940	6170	1020	
12/3/2020		10'			<0.050	0.583	5.64	5.720	11.9	535	3780	778	
12/3/2020		11'			<0.100	0.979	9.36	12.200	22.5	564	3190	664	
12/3/2020		12'			<0.050	0.126	1.41	1.120	2.65	144	1830	449	
12/3/2020		13'			<0.100	1.68	11.5	13.900	27.1	1080	5250	937	
12/15/2020		15'			<0.050	<0.050	0.189	0.232	0.444	<10.0	204	22.6	
12/15/2020		20'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
12/15/2020		25'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
12/15/2020		30'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
12/15/2020		35'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
													32.606530
11/4/2020	H1	Surface	143	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.287230
													32.606718
11/4/2020	H2	Surface	149	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.287150
													32.606526
11/4/2020	H3	Surface	147	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.287113
													32.606350
11/4/2020	H4	Surface	144	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.287164



November 04, 2020

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

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/03/20 15:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/03/2020	Sampling Date:	11/03/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: SP 1 @ SURFACE (H002909-01)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	<0.050	0.050	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTEX	<0.300	0.300	11/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 \$	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	11/04/2020	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	11/03/2020	ND	208	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	11/03/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/03/2020	ND					
Surrogate: 1-Chlorooctane	81.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.8	% 42.2-15	6						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	1arland BLVD.		
		Fax To:	(575) 393-2432		
Received:	11/03/2020			Sampling Date:	11/03/2020
Reported:	11/04/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

### Sample ID: SP 1 @ 1' (H002909-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	<0.050	0.050	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTEX	<0.300	0.300	11/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/04/2020	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	11/04/2020	ND	208	104	200	0.804	
DRO >C10-C28*	300	10.0	11/04/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	437	10.0	11/04/2020	ND					
Surrogate: 1-Chlorooctane	103 9	44.3-14	4						
Surrogate: 1-Chlorooctadecane	140 9	42.2-15	6						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

### Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: (Circle One) Sampler - UPS - Bus - Oti	Reltinguished By:	Relinquished By:	PLEASE NOTE: Liability and Dama analyses. All claims including those service. In no event shall Cardinal b			LSK	Income ISP	Lab I.D.	FOR LAB USE ONLY	2	on: C	ame: C	Project #:	Phone #:	Citv:	Address:	Project Manager:	Company Name:	101 Ea
Observe her: Correcte	p www.7 Date:	Sing out of or related to the performance of services hereunder by Ga BY:	ages. Cardinal's liability and client's exclusive remedy i i for negligence and any other cause whatsoever shall be liable for incidental or consequental damages, indu-			101	P10 Surface	Sample I.D.		EFF Prum	M LAMBERT	M LAMBERT	Project Owner:	Fax #:	State:			anche Constation	101 East Marland, Hobbs, NM 88240
d Temp. °C 7. 8 Sample Condition CHECKED BY: Turnaround Time: Standard Ba Cool Intact (Initials) Thermometer ID 497 7. Cool Correction Factor 4.1.6 7.0 0	Received By:	No Received By:	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remoty for any claim strain writerier users writerier user writerier users	the state a contract or fart shall be listed to the arro		deni / 9	6 1 113	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		Fax #:	Phone #:	State: Zip:	City:	Address:	Zip: Attn:	Company:	P.O. #:	BILL TO	40
Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Thermometer ID #97 #13 72 PYes Yes Correction Factor +94 °C ///3/20 No Corrected Temp. °C	REMARKS:	Verbal Result:  Ves No Add'I Prione #: All Results are emailed. Please provide Email address:		nt paid by the client for the		1		TIME CL-	-	SAMPLING								ANALTSIS REQUEST	

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November 09, 2020

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

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/04/20 14:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/04/2020	Sampling Date:	11/04/2020
Reported:	11/09/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: H 1 (H002924-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTEX	<0.300	0.300	11/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/05/2020	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	11/05/2020	ND	241	120	200	1.93	
DRO >C10-C28*	<10.0	10.0	11/05/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	11/05/2020	ND					
Surrogate: 1-Chlorooctane	98.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.8	% 42.2-15	6						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	APACHE C	ORP - HOBBS		
	BRUCE BA	KER		
	2350 W. N	1arland Blvd.		
	HOBBS NN	4, 88240		
	Fax To:	(575) 393-2432		
11/04/2020			Compling Dates	

Received:	11/04/2020	Sampling Date:	11/04/2020
Reported:	11/09/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: H 2 (H002924-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTEX	<0.300	0.300	11/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/05/2020	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	11/05/2020	ND	241	120	200	1.93	
DRO >C10-C28*	<10.0	10.0	11/05/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	11/05/2020	ND					
Surrogate: 1-Chlorooctane	87.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.7	% 42.2-15	6						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	APACHE CO	orp - Hobbs	
	BRUCE BAH	KER	
	2350 W. M	ARLAND BLVD.	
	HOBBS NM	, 88240	
	Fax To:	(575) 393-2432	
11/04/2020			Sampling Date:

Received:	11/04/2020	Sampling Date:	11/04/2020
Reported:	11/09/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: H 3 (H002924-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTEX	<0.300	0.300	11/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/05/2020	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	11/05/2020	ND	241	120	200	1.93	
DRO >C10-C28*	<10.0	10.0	11/05/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	11/05/2020	ND					
Surrogate: 1-Chlorooctane	86.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	80.5	% 42.2-15	6						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



LM LAMBERT

NONE GIVEN

NOT GIVEN

Sampling Condition:

Sample Received By:

11/04/2020

Cool & Intact

Tamara Oldaker

Soil

### Analytical Results For:

	APACHE (	Corp - Hobbs		
	BRUCE BA	AKER		
	2350 W. I	MARLAND BLVD.		
	HOBBS N	M, 88240		
	Fax To:	(575) 393-2432		
11/04/2020			Sampling Date:	
11/09/2020			Sampling Type:	

### Sample ID: H 4 (H002924-04)

Received:

Reported:

Project Name:

Project Number:

Project Location:

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTEX	<0.300	0.300	11/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 73.3-12	9						
Chloride, SM4500Cl-B	, SM4500Cl-B mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/05/2020	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	11/06/2020	ND	241	120	200	1.93	
DRO >C10-C28*	<10.0	10.0	11/06/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	11/06/2020	ND					
Surrogate: 1-Chlorooctane	89.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	83.7	% 42.2-15	6						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

### Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7

### Received by OCD: 12/21/2020 8:54:29 PM

(575) 393-2326			BILL TO	ANALYSIS REQUEST
Project Manager: Rull	Corporation Antion	P.O. #:		
0		Company:	pany:	
City:	State: Zip:			
Phone #:	Fax #:	Address:	ess:	
Proiect #:	Project Owner:	City:		
ame: (M	LAMBERT	State:	: Zip:	
(m	LAMBENT	Phone #:	le #:	
" Com		Fax #:		
e: JETT	Oniom	MATRIX P	PRESERV. SAMPLING	
Lab I.D. Sar	(G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE:	ICE / COOL OTHER : DATE	The class of the second
1 H1 2 H1	6		11/4/20 1315	
4 H4 5 H 2		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11/4/20 1318	
PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remely for any claim asing whether based th contract or rort, using or anice or non-non-negative completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unknowned by Cardina's including those for negligence and any other cause whatsoever shall be deemed waved unknowned by Cardina's including those for negligence and any other cause whatsoever shall be deemed waved unknowned by Cardina's including those for negligence and any other cause whatsoever shall be deemed waved unknowned by Cardina's including those for negligence and any other cause whatsoever shall be deemed waved unknowned by Cardina's including those for negligence and any other cause whatsoever shall be deemed waved unknowned by Cardina's including those for negligence and any other cause whatsoever shall be deemed waved unknowned by Cardina's including those for negligence and any other cause whatsoever shall be deemed waved unknowned by Cardina's including the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unknowned by Cardina's including the applicable analyses. All claims including those for the shows for the chargence and any other cause whatsoever shall be deemed waved unknowned by Cardina's including the applicable analyses.	's liability and client's exclusive remedy for any a and any other cause whatsoever shall be de odental or consequental damages, including w	illy and client's exclusive remety for any claim arising whether based in contract or ions, surver, and we are used in a completion of the a any other cause whatoever, shall be deemed waised unless made in writing and teached by Castinia within 30 days after completion of the a any other cause whatoever, shall be deemed waised unless made in writing and teached by Castinia within 30 days after completion of the a any other cause whatoever, shall be deemed waised unless made in writing and teached by Castinia within 30 days after completion of the a any other cause whatoever, shall be deemed waised unless made in the start of the above start by client, is subdiatable of the start of the above start of the start of the start of the above sta	ed by Cardinal within 30 days after completio use, or loss of profits incurred by client, its sub use, or loss of profits incurred by client, its sub	oplicable
Relinquished By:	the performance of services hereunder by Cardinal. resident to Car	Received By: Received By: Received By:	ORA Aldaby REMA	Verbal Result: □ Yes □ No Add'i Phone #: All Results are emailed. Please provide Email address: REMARKS:
Delivered By: (Circle One)	Observed Temp. °C 4.4	4.4 Sample Condition	CHECKED BY: Turna (Initials) Therm	Turnaround Time: Standard M Bacteria (only) Sample Condition Color Infact Observed Temp. °C
Sampler - UPS - Dus - Outer.		NO NO	7.	

Page 23 of 59



November 09, 2020

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

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/04/20 14:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		BRUCE BA	ARLAND BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	11/04/2020			Sampling Date:	11/04/2020
Reported:	11/09/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

### Sample ID: SP 1 @ 2' (H002925-01)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTEX	<0.300	0.300	11/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5 9	73.3-12	9						
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2020	ND	241	120	200	1.93	
DRO >C10-C28*	88.4	10.0	11/06/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	119	10.0	11/06/2020	ND					
Surrogate: 1-Chlorooctane	103 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane									

### **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	IARLAND BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	11/04/2020			Sampling Date:	11/04/2020
Reported:	11/09/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

### Sample ID: SP 1 @ 3' (H002925-02)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTEX	<0.300	0.300	11/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1 9	% 73.3-12	9						
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2020	ND	241	120	200	1.93	
DRO >C10-C28*	88.8	10.0	11/06/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	89.5	10.0	11/06/2020	ND					
Surrogate: 1-Chlorooctane	104 %	44.3-14	4						
		42.2-15	6						

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

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

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

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

### Received by OCD: 12/21/2020 8:54:29 PM

### Relinquished By: Sampler - UPS - Bus - Other: Relinquished By: inalyses. All claims including those for negligence and any other cause whatsoever shall be deemed City: LEASE NOTE: Liability and Dar Project Location: Project Name: Project Manager: Delivered By: (Circle One) ervice. In no event shaft Cardinal be liable for incidental or co Sampler Name: Project #: Phone #: Address: Company Name: Honadaz FOR LAB USE ONLY Lab I.D. EFF ISnum N ansing out of or related to the SP102' 101 East Marland, Hobbs, NM 88240 Sm JERF BRUM S Bruck (575) 393-2326 FAX (575) 393-2476 Cardin LAMBERT LAMBERT Sample I.D. Wache Oaker Observed Temp. °C Corrected Temp. °C Date: 11/4/20 Time: / Folo int's exclusive remedy for any Date: Time: Project Owner: Fax #: Corporation † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com State: damages, including 4.4 S (G)RAB OR (C)OMP. Zip Received By: Received # CONTAINERS GROUNDWATER Sample Condition Cool Intact unless made in writing and rec WASTEWATER MATRIX SOIL OIL iract or lort, SLUDGE loss of use, or loss of profils incu City: OTHER P.O. #: State: Attn: Fax #: Phone #: Address: Company: ed by Ca ACID/BASE PRESERV CHECKED BY: ICE / COOL 'd (Initials) OTHER : BILL TO within 30 days after 1 Zip: DATE 4/2 red by client, its subsidiaries, 120 SAMPLING paid by the client for the Correction Factor +0.4 °C All Results are emailed. Please provide Email address: Turnaround Time: REMARKS: Verbal Result: 1313 1312 TIME EXT. TPH O Yes BTEX 112 #13 Standard ON D Add'l Phone #: ANALYSIS Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C REQUEST

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### Page 28 of 59

oratories

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November 19, 2020

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

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/18/20 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Whe Singh

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



		BRUCE BAK	ARLAND BLVD.		
		Fax To:	(575) 393-2432		
Received:	11/18/2020			Sampling Date:	11/18/2020
Reported:	11/19/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

### Sample ID: SP 1 @ 4' (H003059-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2020	ND	1.99	99.4	2.00	4.48	
Toluene*	<0.050	0.050	11/18/2020	ND	1.90	95.0	2.00	5.18	
Ethylbenzene*	<0.050	0.050	11/18/2020	ND	2.01	100	2.00	5.23	
Total Xylenes*	<0.150	0.150	11/18/2020	ND	5.75	95.8	6.00	5.01	
Total BTEX	<0.300	0.300	11/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2020	ND	196	97.8	200	11.8	
DRO >C10-C28*	77.0	10.0	11/18/2020	ND	211	106	200	18.1	
EXT DRO >C28-C36	96.3	10.0	11/18/2020	ND					
Surrogate: 1-Chlorooctane	83.7	% 44.3-14	4						

### **Cardinal Laboratories**

\*=Accredited Analyte

Mite Sugar

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



		BRUCE BAI 2350 W. M HOBBS NM	ARLAND BLVD. I, 88240		
		Fax To:	(575) 393-2432		
Received:	11/18/2020			Sampling Date:	11/18/2020
Reported:	11/19/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

### Sample ID: SP 1 @ 5' (H003059-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2020	ND	1.99	99.4	2.00	4.48	
Toluene*	<0.050	0.050	11/18/2020	ND	1.90	95.0	2.00	5.18	
Ethylbenzene*	<0.050	0.050	11/18/2020	ND	2.01	100	2.00	5.23	
Total Xylenes*	<0.150	0.150	11/18/2020	ND	5.75	95.8	6.00	5.01	
Total BTEX	<0.300	0.300	11/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2020	ND	196	97.8	200	11.8	
DRO >C10-C28*	150	10.0	11/18/2020	ND	211	106	200	18.1	
EXT DRO >C28-C36	161	10.0	11/18/2020	ND					
Surrogate: 1-Chlorooctane	81.9%	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103 %	6 42.2-15	6						

**Cardinal Laboratories** 

\*=Accredited Analyte

Mite Sugar

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



### **Notes and Definitions**

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### **Cardinal Laboratories**

### \*=Accredited Analyte

Mite Sugar

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(575) 393-2326 FAX (575) 393-2476		BILL TO		ANALYSIS REQUEST	JEST
-	l'experation	P.O.	#			
Binte D4	NEX	Con	Company:		-	
City:	State: Z	Zip: Attn:	n			
Phone #:			Address:			
Project #:	Project Owner:	City:				
Project Name: Lun Labort		State:	te: Zip:			
on /	ł	Pho	Phone #:			
Sampler Name: Tommer Ten York	12.4	Fax #:				1
10171014		MATRIX	PRESERV. SAMPLING			
2		ER		~45		
Lab I.D. Sample I.D.		G)RAB OR (C) CONTAINER BROUNDWAT VASTEWATER GOIL DIL SLUDGE DTHER :	ACID/BASE: CE / COOL OTHER : DATE	TPH BJex		
, ( (b) ( H,		1	05-31-11	1 1 asiel		0
2 582 4 51		6	06.51-11	12:53 V V		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the applicable places and a contract or tort, shall be limited to the amount paid by the client for the applicable of th	ind client's exclusive remedy for an	y claim arising whether based in contract or tor semed waived unless made in writing and rece	t, shall be limited to the amount paid t wed by Cardinal within 30 days after c	by the client for the completion of the applicable		
analyses. All claims involving under on inderesting of the substantiant of the substan	consequental damages, including	without limitation, business interruptions, loss of	if use, or loss of profits incurred by cire sed upon any of the above stated reas		11	
affiliates or successors arising out of or related to the perform Relinquished By:	Date: 	ad By: Date: Timos: Timos: Date: Timos: Date: Timos: Date: Timos: Date: Timos: Date: Timos: Date: D	M. Marken	Verbal Result:  Ves No Add I Prone #: All Results are emailed. Please provide Email address:	Add I Phone #: rovide Email address:	
Relinquished By:	Date:	Received By:	and a	REMARKS:		
Delivered By: (Circle One)	Observed Temp. °C 2.8	0 %	CHECKED BY: (Initials)	Turnaround Time: Standard Rush		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
	Corrected Temp. °C		400	Correction Factor None		

### Received by OCD: 12/21/2020 8:54:29 PM

### Page 33 of 59

ARDIN



November 23, 2020

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

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/20/20 9:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Whe Singh

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



		BRUCE BAI	ARLAND BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	11/20/2020			Sampling Date:	11/20/2020
Reported:	11/23/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

### Sample ID: SP 1 @ 6' (H003078-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2020	ND	1.89	94.4	2.00	7.75	
Toluene*	<0.050	0.050	11/20/2020	ND	1.82	91.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	11/20/2020	ND	1.89	94.3	2.00	9.22	
Total Xylenes*	<0.150	0.150	11/20/2020	ND	5.42	90.3	6.00	8.77	
Total BTEX	<0.300	0.300	11/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2020	ND	251	125	200	0.615	
DRO >C10-C28*	<10.0	10.0	11/20/2020	ND	236	118	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	11/20/2020	ND					
Surrogate: 1-Chlorooctane	95.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.5	% 42.2-15	6						

### **Cardinal Laboratories**

\*=Accredited Analyte

Mite Sugar

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



		BRUCE BA	1arland Blvd.		
		Fax To:	(575) 393-2432	2	
Received:	11/20/2020			Sampling Date:	11/20/2020
Reported:	11/23/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

### Sample ID: SP 1 @ 7' (H003078-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2020	ND	1.89	94.4	2.00	7.75	
Toluene*	<0.050	0.050	11/20/2020	ND	1.82	91.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	11/20/2020	ND	1.89	94.3	2.00	9.22	
Total Xylenes*	<0.150	0.150	11/20/2020	ND	5.42	90.3	6.00	8.77	
Total BTEX	<0.300	0.300	11/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2020	ND	251	125	200	0.615	
DRO >C10-C28*	78.9	10.0	11/20/2020	ND	236	118	200	1.33	
EXT DRO >C28-C36	70.5	10.0	11/20/2020	ND					
Surrogate: 1-Chlorooctane	93.4	% 44.3-14	4						

**Cardinal Laboratories** 

\*=Accredited Analyte

Mite Sugar

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



## **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

## Cardinal Laboratories

## \*=Accredited Analyte

Mite Sugar

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

City: **Company Name:** Project #: Project Manager: Sampler Name: Jonny Project Location: Lm Project Name: Phone #: Address: **Relinquished By:** service. In no event shall Cardinal be liable for incidental or Relinquished By: analyses. All claims including those for negligence and any other cause whatsoever shall be deemed PLEASE NOTE: Liability and FOR LAB USE ONLY Sampler - UPS - Bus - Other: Delivered By: (Circle One) Lab I.D. 81050 LM 5120 101 East Marland, Hobbs, NM 88240 5810 (575) 393-2326 FAX (575) 393-2476 pull 1 OI OI I DI I DI I DI pache Lambert es. Cardinal's liability and client's exclusive remedy for any claim arising whether rampter + Sample I.D. Dalle 1-ahini 6. 1 Corporation Observed Temp. °C Corrected Temp. °C Fax #: Timegss Project Owner: State: Time: Date: 1-20-20 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com nages, including without limitation, business inter under by Ca 6 Zip (G)RAB OR (C)OMP Received By: Received By: 5 **# CONTAINERS** waived unless made in writing and received by Cardinal within 30 days after completion of the applicable GROUNDWATER MULLIA Cool Intact Sample Condition WASTEWATER MATRIX SOIL 1 er such claim is base OIL SLUDGE wact or tort, shall loss of use, or loss of profits incurred by client, its subsidiaries City: P.O. #: State: Attn: Fax #: Company: Phone #: OTHER Address: ACID/BASE PRESERV upon any of the ICE / COOL CHECKED BY: BILL OTHER (Initials) .0 to the Zip 11-20-20 9:11 11-2020 9:13 DATE 10 SAMPLING it paid by the client for the All Results are emailed. Please provide Email address: Thermometer ID #113 Correction Factor None **Turnaround Time:** REMARKS: Verbal Result: TIME Ves 7 2 B Tex Standard Rush 7 Ext. TPH ON D ANALYSIS REQUEST Q Add'l Phone #: Bacteria (only) Sample Condition Cool Intact Observed Temp. Yes Yes Nc No Corrected Temp. ĉ ĉ

Released to Imaging: 3/12/2021 12:20:06 PM

Received by OCD: 12/21/2020 8:54:29 PM

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December 02, 2020

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

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/30/20 15:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		BRUCE BAK	ARLAND BLVD.		
		Fax To:	(575) 393-2432		
Received:	11/30/2020			Sampling Date:	11/30/2020
Reported:	12/02/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Yvonne Muniz
Project Location:	NOT GIVEN				

## Sample ID: SP 1 @ 8' (H003130-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	2.10	105	2.00	3.68	
Toluene*	<0.050	0.050	12/01/2020	ND	2.02	101	2.00	3.56	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	2.09	104	2.00	3.60	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.96	99.4	6.00	3.43	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2020	ND	211	105	200	4.03	
DRO >C10-C28*	202	10.0	12/02/2020	ND	211	106	200	1.88	
EXT DRO >C28-C36	159	10.0	12/02/2020	ND					
Surrogate: 1-Chlorooctane	82.3 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.3								

## **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

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

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

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Lab	poratories	N	0	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
101 East (575) 3	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	1240 1476		
Company Name: ///	a la Compatin	2	BILL TO	ANALYSIS REQUEST
Project Manager:	and lake		P.O. #:	
Address:	and Contract		Company:	
City:	State:	Zip:	Attn:	
Phone #:	Fax #:		Address:	
Project #:	Project Owner:	er:	City:	
Project Name: LM L	AMREAT		State: Zip:	
Project Location: CM	LAMBERT		Phone #:	
2	Rown		1	
	Selver	MATRIX	PRESERV. SAMPLING	ING
Lab I.D. H00 930	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	TIME BTEX EXT. TPH
SP1	8,			0527 1 1
PLEASE NOTE: Liability and Damages. Cardinal's liability and of analyses. All claims including those for negligence and any other service in no event shall Cardinal be liable for incidental or cons	0 0 0	or any claim arising whether based in contr be deemed waived unless made in writing uting without limitation, business interruption	res exclusive remedy for any caim arising whether based in contract or for, shall be intered to the annual year by the curvit or the arass whatsoever shall be desmod whede unless much and a waiting and terebed by Curuchai waitin 30 days after completion of the a yearaid damages, including without limitation, business interruptions, loss of use, or loss of profils incurvity present dynamics.	og vire cuent ov sve completen of tite applicable ieru, its subsidiaries,
Relinguished By:	ated to the performance of services hereunder by C	Received By:	whether such claim is based upon any or the above second v V:	Verbal Result:     Yes     No     Add'l Phone #:       All Results are emailed.     Please provide Email address:     11
Relinquished By:	54	Received By:	un 2	REMARKS: DUSK Adde 1540 T.
Delivered By: (Circle One)	Observed Temp	Silo Sample Co	rdition CHECKED BY:	Turnaround Time: Standard P Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Thermometer ID -#97-
PORM-000 R 3.0	† Cardina	al cannot accept verbal c	hanges. Please email cha	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

## Received by OCD: 12/21/2020 8:54:29 PM

## Page 4 of 4

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December 04, 2020

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

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 12/03/20 9:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	APACHE CORP - HOBBS
	BRUCE BAKER
	2350 W. MARLAND BLVD.
	HOBBS NM, 88240
	Fax To: (575) 393-2432
12/03/2020	Sampling Date:

Received:	12/03/2020	Sampling Date:	12/03/2020
Reported:	12/04/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 1 @ 9' (H003167-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	12/03/2020	ND	2.09	104	2.00	1.50	
Toluene*	0.407	0.100	12/03/2020	ND	2.00	100	2.00	1.69	GC-NC1
Ethylbenzene*	5.94	0.100	12/03/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	10.1	0.300	12/03/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	16.5	0.600	12/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	327 9	73.3-12	9						
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	940	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	6170	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	1020	50.0	12/03/2020	ND					
Surrogate: 1-Chlorooctane	211 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	170 9	% 42.2-15							

## **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE COF	RP - HOBBS	
BRUCE BAKE	R	
2350 W. MA	RLAND BLVD.	
HOBBS NM,	88240	
Fax To:	(575) 393-2432	

Received:	12/03/2020	Sampling Date:	12/03/2020
Reported:	12/04/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 1 @ 10' (H003167-02)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2020	ND	2.09	104	2.00	1.50	
Toluene*	0.583	0.050	12/04/2020	ND	2.00	100	2.00	1.69	GC-NC1
Ethylbenzene*	5.64	0.050	12/04/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	5.72	0.150	12/04/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	11.9	0.300	12/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	395 9	% 73.3-12	9						
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	535	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	3780	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	778	50.0	12/03/2020	ND					
Surrogate: 1-Chlorooctane	159 9	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	136 9	% 42.2-15							

**Cardinal Laboratories** 

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CO	RP - HOBBS
BRUCE BAKE	ĒR
2350 W. MA	RLAND BLVD.
HOBBS NM,	88240
Fax To:	(575) 393-2432

Received:	12/03/2020	Sampling Date:	12/03/2020
Reported:	12/04/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 1 @ 11' (H003167-03)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	12/04/2020	ND	2.09	104	2.00	1.50	
Toluene*	0.979	0.100	12/04/2020	ND	2.00	100	2.00	1.69	GC-NC1
Ethylbenzene*	9.36	0.100	12/04/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	12.2	0.300	12/04/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	22.5	0.600	12/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	292	% 73.3-12	9						
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	564	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	3190	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	664	50.0	12/03/2020	ND					
Surrogate: 1-Chlorooctane	138	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	124	% 42.2-15							

**Cardinal Laboratories** 

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CO	RP - HOBBS
BRUCE BAKE	ER
2350 W. MA	RLAND BLVD.
HOBBS NM,	88240
Fax To:	(575) 393-2432

Received:	12/03/2020	Sampling Date:	12/03/2020
Reported:	12/04/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 1 @ 12' (H003167-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2020	ND	2.09	104	2.00	1.50	
Toluene*	0.126	0.050	12/04/2020	ND	2.00	100	2.00	1.69	GC-NC1
Ethylbenzene*	1.41	0.050	12/04/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	1.12	0.150	12/04/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	2.65	0.300	12/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	232 9	% 73.3-12	9						
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	144	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	1830	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	449	50.0	12/03/2020	ND					
Surrogate: 1-Chlorooctane	118 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	170 9	% 42.2-15							

## **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



NOT GIVEN

## Analytical Results For:

		APACHE C	orp - Hobbs		
		BRUCE BA	KER		
		2350 W. №	1arland Blvd.		
		HOBBS NM	1, 88240		
		Fax To:	(575) 393-2432	2	
Received:	12/03/2020			Sampling Date:	12/03/2020
Reported:	12/04/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker

## Sample ID: SP 1 @ 13' (H003167-05)

Project Location:

BTEX 8021B	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	12/04/2020	ND	2.09	104	2.00	1.50	
Toluene*	1.68	0.100	12/04/2020	ND	2.00	100	2.00	1.69	GC-NC1
Ethylbenzene*	11.5	0.100	12/04/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	13.9	0.300	12/04/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	27.1	0.600	12/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	343 9	% 73.3-12	9						
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1080	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	5250	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	937	50.0	12/03/2020	ND					
Surrogate: 1-Chlorooctane	189 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	213	% 42.2-15	/						

## **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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

C	2/2) 222-22C LWV (2/2)	010000000000				
Company Name:	Anache Committee	1 tim		BILL TO	AN	ANALISIS NEWSESI
Project Manager:				P.O. #:		
Address:				Company:		
City:	S	State: Zi	Zip:	Attn:		
Phone #:	Fay	Fax #:		Address:		
Project #:	Pro	Project Owner:		City:		
ame:	LAN LAMBENT			State: Zip:		
on:	LM LAMBERT			Phone #:		
Sampler Name:	LEFF Rown			1		
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING		
		(C)OMP	ERS /ATER			
Lab I.D.	Sample I.D.		(G)RAB OR # CONTAINE GROUNDW WASTEWAT SOIL OIL SLUDGE	OTHER : ACID/BASE ICE / COOL OTHER :	BTEXT,	
	12 0 14	9		rt/6/8	1 1 589	
21	10/ 011	t	10		1 1 1280	
	1 0 1 0 1 0	6	4		1836 1 1	
5	-	6	6	12/2/20	1 1 230	
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Card	Damages. Cardinal's liability and client's e those for negligence and any other cause sinal be liable for incidental or consequent	exclusive remedy for any a whatsoever shall be dee tal damages, including w	olaim arising whether based in contra emed waived unless made in writing a rithout limitation, business interruption whether such clair	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or knt, shall be limited to the amount putor by recrement on the applica analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applica analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applica analyses. All claims including whether shall be deemed waived unless made in writing and received by Cardinal bincurred by client, its substitutions, business interruptions, loss of use, or loss of use and use of use	plicable	
Relinquished By:	are or successors arising out of or related to the performance of services freezinger of carriers of the performance of the pe	Date: A /3 /20	Received By:	11 110	t: I Yes I No	Add'l Phone #: Add'l Fax #:
Relinquished By:	T	525	Received By:	Allaby	REMARKS: RUSH SAMPLE	3 Phan.
	-	Time:		-		
Delivered By: (Circle One) Sampler - UPS - Bus - Other	(Circle One) Bus - Other:	N.ac #	Sample Condition Cool Intact TYes TYes No No No	(Initials) Yo		

Received by OCD: 12/21/2020 8:54:29 PM

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Page 8 of 8



December 16, 2020

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

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 12/15/20 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/15/2020	Sampling Date:	12/15/2020
Reported:	12/16/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 1 @ 15' (H003265-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2020	ND	2.09	105	2.00	0.600	
Toluene*	<0.050	0.050	12/16/2020	ND	1.97	98.5	2.00	1.57	
Ethylbenzene*	0.189	0.050	12/16/2020	ND	2.08	104	2.00	1.09	
Total Xylenes*	0.232	0.150	12/16/2020	ND	5.94	99.0	6.00	0.719	
Total BTEX	0.444	0.300	12/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2020	ND	194	97.1	200	2.46	
DRO >C10-C28*	204	10.0	12/16/2020	ND	204	102	200	2.34	
EXT DRO >C28-C36	22.6	10.0	12/16/2020	ND					
Surrogate: 1-Chlorooctane	95.9 9	44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.8 9	42.2-15	6						

**Cardinal Laboratories** 

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	1arland BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	12/15/2020			Sampling Date:	12/15/2020
Reported:	12/16/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

## Sample ID: SP 1 @ 20' (H003265-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2020	ND	2.09	105	2.00	0.600	
Toluene*	<0.050	0.050	12/16/2020	ND	1.97	98.5	2.00	1.57	
Ethylbenzene*	<0.050	0.050	12/16/2020	ND	2.08	104	2.00	1.09	
Total Xylenes*	<0.150	0.150	12/16/2020	ND	5.94	99.0	6.00	0.719	
Total BTEX	<0.300	0.300	12/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2020	ND	194	97.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	12/16/2020	ND	204	102	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/16/2020	ND					
Surrogate: 1-Chlorooctane	94.9 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.6 %	42.2-15	6						

## **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BAI	ARLAND BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	12/15/2020			Sampling Date:	12/15/2020
Reported:	12/16/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

## Sample ID: SP 1 @ 25' (H003265-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2020	ND	2.09	105	2.00	0.600	
Toluene*	<0.050	0.050	12/16/2020	ND	1.97	98.5	2.00	1.57	
Ethylbenzene*	<0.050	0.050	12/16/2020	ND	2.08	104	2.00	1.09	
Total Xylenes*	<0.150	0.150	12/16/2020	ND	5.94	99.0	6.00	0.719	
Total BTEX	<0.300	0.300	12/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2020	ND	194	97.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	12/16/2020	ND	204	102	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/16/2020	ND					
Surrogate: 1-Chlorooctane	88.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.9	% 42.2-15	6						

## **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BAK	ARLAND BLVD.		
		Fax To:	(575) 393-2432		
Received:	12/15/2020			Sampling Date:	12/15/2020
Reported:	12/16/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

## Sample ID: SP 1 @ 30' (H003265-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2020	ND	2.09	105	2.00	0.600	
Toluene*	<0.050	0.050	12/16/2020	ND	1.97	98.5	2.00	1.57	
Ethylbenzene*	<0.050	0.050	12/16/2020	ND	2.08	104	2.00	1.09	
Total Xylenes*	<0.150	0.150	12/16/2020	ND	5.94	99.0	6.00	0.719	
Total BTEX	<0.300	0.300	12/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	73.3-12	9						
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2020	ND	194	97.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	12/16/2020	ND	204	102	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/16/2020	ND					
Surrogate: 1-Chlorooctane	94.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.3	% 42.2-15	6						

## **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	IARLAND BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	12/15/2020			Sampling Date:	12/15/2020
Reported:	12/16/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

## Sample ID: SP 1 @ 35' (H003265-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2020	ND	2.09	105	2.00	0.600	
Toluene*	<0.050	0.050	12/16/2020	ND	1.97	98.5	2.00	1.57	
Ethylbenzene*	<0.050	0.050	12/16/2020	ND	2.08	104	2.00	1.09	
Total Xylenes*	<0.150	0.150	12/16/2020	ND	5.94	99.0	6.00	0.719	
Total BTEX	<0.300	0.300	12/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2020	ND	194	97.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	12/16/2020	ND	204	102	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/16/2020	ND					
Surrogate: 1-Chlorooctane	102 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	102 %	6 42.2-15	6						

## **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

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

## **Cardinal Laboratories**

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

## aboratories ARDINA

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By Relinquished By: Sampler - UPS - Bus - Other: analyses. All claims including those Delivered By: (Circle One) ervice. In no event shall Cardinal be liable for incidental or con LEASE NOTE: Liability and City: Sampler Name: " Project Location: Lim Project Name: HOOJOLS Project #: Phone #: Address: FOR LAB USE ONLY Lab I.D. S SP 1 af enten 35 35 01 35 So LM out of or related to the iann 1 60 Bruce 8 () OF Lambert Cardinal's liability and c Lamber + Sample I.D nce and any other S. 30 5 en Mins 300 50 Balter Corrected Temp. Observed Temp. °C cause whatsoever shall be deemed Time: 1446 Time: Date: Date: † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com Fax #: 12-15-20 Project Owner: State: ages, including without limitation, business interr under by C °° S Received By: 66 GRAB OR (C)OMP Received By Zip: S waived unless made in writing and received by Cardinal within 30 days after comp **# CONTAINERS** GROUNDWATER Sample Condition Cool Intact WASTEWATER ool Intact ]Yes ☐Yes \_No ☐ No MATRIX 7 SOIL OIL bions, loss of use, or loss of profits incu SLUDGE OTHER State: City: P.O. #: Phone #: Attn: Fax #: Address: Company: ACID/BASE PRESERV CHECKED BY: ICE / COOL (Initials) OTHER 0 12:15 Zip: 12:15 51:21 12:15 12:15 DATE red by client, its subsidiaries SAMPLING paid by the client for the 12:35 Thermometer ID #113 Correction Factor None **REMARKS:** All Results are emailed. Please provide Email address: 12:30 Turnaround Time: 12:25 06:51 12:15 Verbal Result: TIME etion of the applicable BTe. Brought Straight to lab □ Yes EXT TPH Standard Rush ON D 5 Add'l Phone #: Cool Intact Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C 2007

Received by OCD: 12/21/2020 8:54:29 PM

Page 58 of 59

Project Manager:

pache

aco

BILL TO

ANALYSIS

REQUEST

Company Name:

CONDITIONS

Action 12857

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 OF APPROVAL

Operator:		OGRID:	Action Number:	Action Type:
APACH	E CORPORATION 303 Veterans Airpark Ln	873	12857	C-141
#1000	Midland, TX79705			
OCD Reviewer	Condition			
ceads	Additional sample points to vertically delineate the BTEX and TPH within the release area are required. All constituents will need to be sampled for.			
ceads	Unless the contamination is immediately above or next to production equipment, remediation is required to be completed.			
ceads	The volume of the spill may need to be recalculated.			