

December 11, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LEE FEDERAL #94

Enclosed are the results of analyses for samples received by the laboratory on 12/04/15 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received: 12/04/2015 Sampling Date: 12/03/2015

Reported: 12/11/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

A ... - L ... - - - I D. .. MC

Project Location: NOT GIVEN

Sample ID: VERTICAL 5 @ 2.5' (H503170-01)

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	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	<0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTEX	<0.300	0.300	12/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	12/08/2015	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	12/07/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/07/2015	ND	205	102	200	6.41	
Surrogate: 1-Chlorooctane	103 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	108 9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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

Fax To: (575) 393-2432

Received: 12/04/2015 Sampling Date: 12/03/2015

Reported: 12/11/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

NOT GIVEN

Sample ID: VERTICAL 5 @ 3' (H503170-02)

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	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	< 0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	< 0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTEX	<0.300	0.300	12/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/08/2015	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	12/07/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/07/2015	ND	205	102	200	6.41	
Surrogate: 1-Chlorooctane	93.7 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	101 %	6 28-171							

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

Received: 12/04/2015 Sampling Date: 12/03/2015

Reported: 12/11/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: VERTICAL 5 @ 3.5' (H503170-03)

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	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	<0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTEX	<0.300	0.300	12/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/08/2015	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	12/07/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/07/2015	ND	205	102	200	6.41	
Surrogate: 1-Chlorooctane	93.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	101 9	6 28-171							

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

Received: 12/04/2015 Sampling Date: 12/04/2015

Reported: 12/11/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: VERTICAL 6 @ 1' (H503170-04)

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	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	< 0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	< 0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTEX	<0.300	0.300	12/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/08/2015	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	12/07/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/07/2015	ND	205	102	200	6.41	
Surrogate: 1-Chlorooctane	94.0	% 35-147	,						
Surrogate: 1-Chlorooctadecane	102 9	% 28-171							

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Received: 12/04/2015 Sampling Date: 12/04/2015

Reported: 12/11/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: NOT GIVEN

Sample ID: VERTICAL 6 @ 2' (H503170-05)

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	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	<0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTEX	<0.300	0.300	12/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/08/2015	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	12/07/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/07/2015	ND	205	102	200	6.41	
Surrogate: 1-Chlorooctane	93.8	% 35-147	,						
Surrogate: 1-Chlorooctadecane	102 9	% 28-171							

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Received: 12/04/2015 Sampling Date: 12/04/2015

Reported: 12/11/2015 Sampling Type: Soil

Project Name: LEE FEDERAL #94 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

NOT GIVEN

Sample ID: VERTICAL 6 @ 3' (H503170-06)

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	12/07/2015	ND	1.92	96.0	2.00	0.931	
Toluene*	<0.050	0.050	12/07/2015	ND	1.92	95.8	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/07/2015	ND	1.99	99.7	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/07/2015	ND	5.94	99.0	6.00	1.22	
Total BTEX	<0.300	0.300	12/07/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/08/2015	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	12/08/2015	ND	201	101	200	7.23	
DRO >C10-C28	<10.0	10.0	12/08/2015	ND	205	102	200	6.41	
Surrogate: 1-Chlorooctane	96.8 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	105 9	6 28-171							

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:		BILL TO	Α	ANALYSIS REQUEST
Project Manager: Brance Brance		P.O. #:		
		Company:		
City: St	State: Zip:	Attn:		
Phone #: Fax #:	(井:	Address:		
	Project Owner:	City:		
ime: Hoache		State: Zip:		
Project Location: Lee Tradeval #94	d.A	Phone #:		
huis Flores		Fax #:		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING		
	RS		le_	
Lab I.D. Sample I.D.		HER: ID/BASE: E/COOL HER:	hlorid PH TEX	
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed whatsoever shall be deemed without on the smaller in writing and received by Cordinal within 30 days after competion of the applicable service. In no event shall cardinal be liable for incidental or consequently advantages, resolved in a event shall cardinal be liable for incidental or consequently advantages. The consequently are the shall be consequently and services of the above the above the above the consequently and services are consequently as the consequently and the consequently are consequently as the consequently are consequently as the consequently are consequently as the consequently as the consequently as the consequently are consequently as the consequently as th	nt's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for it ause whatspever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the juental damages, including without limitation, business interruptions, loss of use, or loss of politis incurred by after completions of the company of the above at lated reasons or otherwise.	ct or tort, shall be limited to the amount paid by the deceived by Cardinal within 30 days after comp. loss of use, or loss of profits incurred by client, it is habited usen any of the above stated the caseons.	te client for the policable state of the applicable state of the applicable state of the policable state of the po	
shed By:	Date: Received By:	Pho REE	ult:	Add'I Phone #: Add'I Fax #:
shed By:	te: Received By:			
Delivered By: (Circle One)	Sample Condition Cool Intact	tion CHECKED BY:		
Sampler - UPS - Bus - Other:	5.20 Pres Pres		email to: Lavry by	balker (a) apache Corp.com

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 3902326