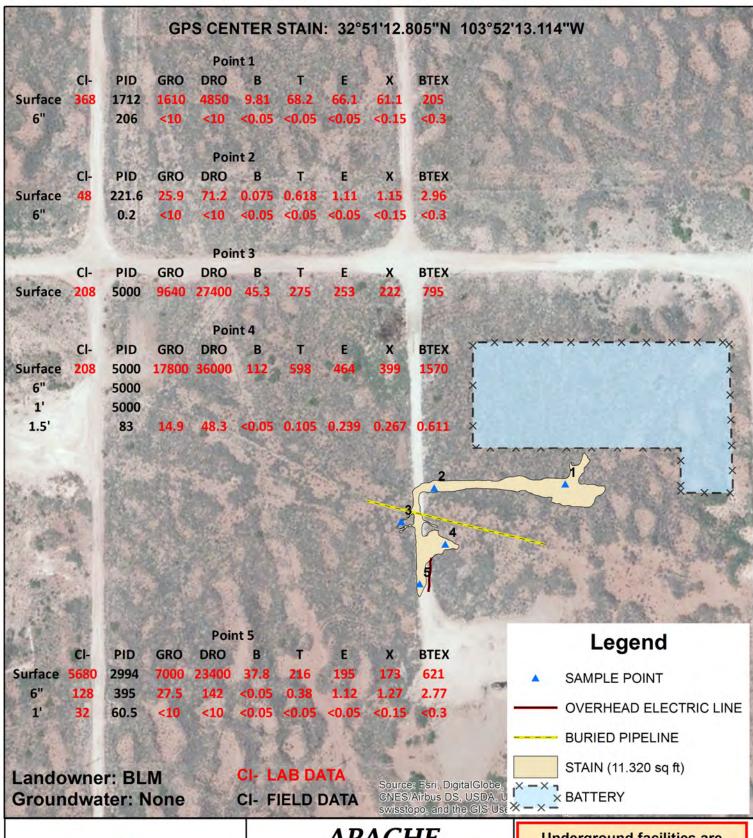
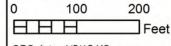
# **Initial Sampling Map**





# APACHE CROW FEDERAL MEGA BATTERY

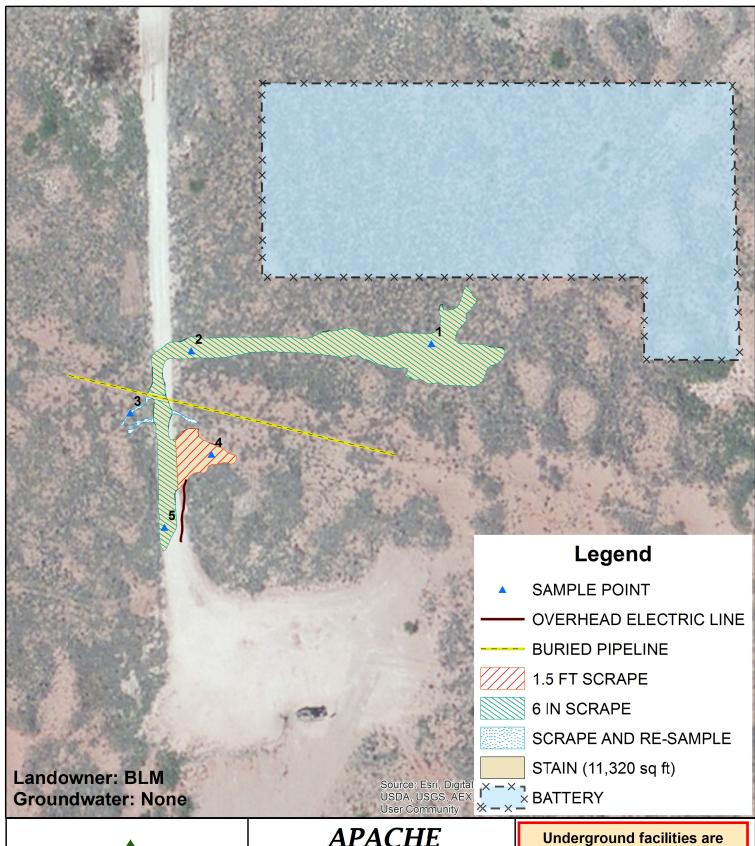
UL A & B SECTION 9 T-17-S R-31-E EDDY COUNTY, NM Underground facilities are spatially projected and need to be field verified.



GPS date: 1/5/15 KS Drawing date: 1/29/15 Drafted by: L. Weinheimer



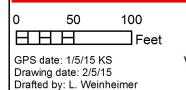
# Path Forward





# APACHE CROW FEDERAL MEGA BATTERY

UL A & B SECTION 9 T-17-S R-31-E EDDY COUNTY, NM Underground facilities are spatially projected and need to be field verified.





January 28, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: CROW FEDERAL MEGA BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/26/15 14:00.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



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

Received: 01/26/2015 Sampling Date: 01/20/2015

Reported: 01/28/2015 Sampling Type: Soil

Project Name: **CROW FEDERAL MEGA BATTERY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: PT. 1 (H500238-01)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.81	1.00	01/27/2015	ND	1.71	85.4	2.00	7.10	
Toluene*	68.2	1.00	01/27/2015	ND	1.66	82.8	2.00	6.42	
Ethylbenzene*	66.1	1.00	01/27/2015	ND	1.58	78.9	2.00	8.23	
Total Xylenes*	61.1	3.00	01/27/2015	ND	4.75	79.2	6.00	8.71	
Total BTEX	205	6.00	01/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 61-154	!						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/27/2015	ND	432	108	400	3.77	
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	1610	100	01/26/2015	ND	192	96.1	200	1.01	
DRO >C10-C28	4850	100	01/26/2015	ND	192	96.2	200	3.37	
Surrogate: 1-Chlorooctane	196	% 47.2-15	7						
Surrogata: 1 Chloroctadaeana	175	0/ 52 1 17	6						

175 % Surrogate: 1-Chlorooctadecane 52.1-176

Cardinal Laboratories \*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Received: 01/26/2015 Sampling Date: 01/20/2015

Reported: 01/28/2015 Sampling Type: Soil

Project Name: CROW FEDERAL MEGA BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: PT. 2 (H500238-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.075	0.050	01/27/2015	ND	1.71	85.4	2.00	7.10	
Toluene*	0.618	0.050	01/27/2015	ND	1.66	82.8	2.00	6.42	
Ethylbenzene*	1.11	0.050	01/27/2015	ND	1.58	78.9	2.00	8.23	
Total Xylenes*	1.15	0.150	01/27/2015	ND	4.75	79.2	6.00	8.71	
Total BTEX	2.96	0.300	01/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/27/2015	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	25.9	10.0	01/26/2015	ND	192	96.1	200	1.01	
DRO >C10-C28	71.2	10.0	01/26/2015	ND	192	96.2	200	3.37	
Surrogate: 1-Chlorooctane	112 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	127 9	52.1-17	6						

Cardinal Laboratories \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Received: 01/26/2015 Sampling Date: 01/20/2015

Reported: 01/28/2015 Sampling Type: Soil

Project Name: **CROW FEDERAL MEGA BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

#### Sample ID: PT. 3 (H500238-03)

BTEX 8021B	mg	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	45.3	10.0	01/27/2015	ND	1.71	85.4	2.00	7.10	
Toluene*	275	10.0	01/27/2015	ND	1.66	82.8	2.00	6.42	
Ethylbenzene*	253	10.0	01/27/2015	ND	1.58	78.9	2.00	8.23	
Total Xylenes*	222	30.0	01/27/2015	ND	4.75	79.2	6.00	8.71	
Total BTEX	795	60.0	01/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 5	% 61-154	!						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/27/2015	ND	432	108	400	3.77	
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	9640	200	01/26/2015	ND	192	96.1	200	1.01	
DRO >C10-C28	27400	200	01/26/2015	ND	192	96.2	200	3.37	
Surrogate: 1-Chlorooctane	324	% 47.2-15	7						
	(02)								

602 % 52.1-176 Surrogate: 1-Chlorooctadecane

Cardinal Laboratories \*=Accredited Analyte

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 client for 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 thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Received: 01/26/2015 Sampling Date: 01/20/2015

Reported: 01/28/2015 Sampling Type: Soil

Project Name: CROW FEDERAL MEGA BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: PT. 4 (H500238-04)

Surrogate: 1-Chlorooctadecane

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	112	10.0	01/27/2015	ND	1.71	85.4	2.00	7.10	
Toluene*	598	10.0	01/27/2015	ND	1.66	82.8	2.00	6.42	
Ethylbenzene*	464	10.0	01/27/2015	ND	1.58	78.9	2.00	8.23	
Total Xylenes*	399	30.0	01/27/2015	ND	4.75	79.2	6.00	8.71	
Total BTEX	1570	60.0	01/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 61-154	!						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/27/2015	ND	432	108	400	3.77	
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	17800	200	01/27/2015	ND	192	96.1	200	1.01	
DRO >C10-C28	36000	200	01/27/2015	ND	192	96.2	200	3.37	
Surrogate: 1-Chlorooctane	517	% 47.2-15	7						

Cardinal Laboratories \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

781 %

52.1-176



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

Received: 01/26/2015 Sampling Date: 01/20/2015

Reported: 01/28/2015 Sampling Type: Soil

Project Name: CROW FEDERAL MEGA BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: PT. 5 (H500238-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	37.8	5.00	01/27/2015	ND	1.71	85.4	2.00	7.10	
Toluene*	216	5.00	01/27/2015	ND	1.66	82.8	2.00	6.42	
Ethylbenzene*	195	5.00	01/27/2015	ND	1.58	78.9	2.00	8.23	
Total Xylenes*	173	15.0	01/27/2015	ND	4.75	79.2	6.00	8.71	
Total BTEX	621	30.0	01/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	01/27/2015	ND	432	108	400	3.77	
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	7000	200	01/27/2015	ND	192	96.1	200	1.01	

 Surrogate: 1-Chlorooctadecane
 200 %
 47.2-137

 Surrogate: 1-Chlorooctadecane
 516 %
 52.1-176

Cardinal Laboratories \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



#### **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.

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

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

(505) 393-2326 FAX (505) 393-247	- 1				BIL	L TO						NAL	YSIS RE	QUEST		
roject Manager: Bruce Baker				P.0	.#:											
				Con	npany:							SI				
ddress: State: NM	Zip:			Attr	n:							.0				
ity:	Lip.				dress:							An				
none #.				City					Σ		I	s/				
roject #: Project Owner:				Sta		Zip:	1	Chlorides	<b>TPH 8015</b>	×	TPH	o G	(0)			
roject Name:	-	7 11		1	one #:	•	- 1	ric	ò	É	S	ati	TDS			
roject Location: Cour Federal Med ampler Name: Kyle Schrid	al	DUH	4	Fax				은	ω_	BTEX	Texas	O	-			
ampler Name: Kyle Schnid		1 N	MATRIX		PRESERV.	SAMPLI	NG	Ö	古		9	te				
Lab I.D. Sample I.D.  4500238  1 Pt 1 2 Pt 2 3 Pt 3 4 Pt 4 5 Pt 5	GORABOR (C)OMP	GROUNDWATER	SOIL	SLUDGE OTHER:	ACID/BASE:	DATE  - 20-13	TIME (0:05 (0:05 (0:15 (0:15					Complete Cations/Anions				
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for analyses. All claims including those for negligence and any other cause whatsoever shall be service. In no event shall Cardinal be liable for incidental or consequental damages, including affiliates or successors againg out of or related to the performance of services hereunder by Relinquished By:  Relinquished By:  Date:  Time:  Time:  Date:  Date:  Date:  Date:  Date:  Diate:  Date:  Date:  Diate:  Diate:	g without lin Cardinal, re Rece	eived By	ess interrupt hether such o	loss, loss faim is ba	of use, or loss of lased upon any of the		Phone R Fax Res REMARI hcond	esult: ult: Ks: result er@r lain@	ts: ice-ec	cs.com	om: re	Add'	Phone #: I Fax #:  @rice-ecs @rice-ecs anic@rice	ecs.com	res@ri	



<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



January 28, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: CROW FEDERAL MEGA BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/26/15 14:00.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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. Keene

Lab Director/Quality Manager



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

Received: 01/26/2015 Sampling Date: 01/21/2015

Reported: 01/28/2015 Sampling Type: Soil

Project Name: CROW FEDERAL MEGA BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: PT. 1 @ 6" (H500237-01)

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	01/27/2015	ND	1.71	85.4	2.00	7.10	
Toluene*	<0.050	0.050	01/27/2015	ND	1.66	82.8	2.00	6.42	
Ethylbenzene*	<0.050	0.050	01/27/2015	ND	1.58	78.9	2.00	8.23	
Total Xylenes*	<0.150	0.150	01/27/2015	ND	4.75	79.2	6.00	8.71	
Total BTEX	<0.300	0.300	01/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 61-154	1						
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	01/26/2015	ND	192	96.1	200	1.01	
DRO >C10-C28	<10.0	10.0	01/26/2015	ND	192	96.2	200	3.37	
Surrogate: 1-Chlorooctane	111 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	123	% 52.1-17	6						

## Cardinal Laboratories \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Received: 01/26/2015 Sampling Date: 01/21/2015

Reported: 01/28/2015 Sampling Type: Soil

Project Name: CROW FEDERAL MEGA BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: PT. 2 @ 6" (H500237-02)

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	01/27/2015	ND	1.71	85.4	2.00	7.10	
Toluene*	<0.050	0.050	01/27/2015	ND	1.66	82.8	2.00	6.42	
Ethylbenzene*	<0.050	0.050	01/27/2015	ND	1.58	78.9	2.00	8.23	
Total Xylenes*	<0.150	0.150	01/27/2015	ND	4.75	79.2	6.00	8.71	
Total BTEX	<0.300	0.300	01/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	1						
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	01/26/2015	ND	192	96.1	200	1.01	
DRO >C10-C28	<10.0	10.0	01/26/2015	ND	192	96.2	200	3.37	
Surrogate: 1-Chlorooctane	105 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	120 9	% 52.1-17	6						

Cardinal Laboratories \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Fax To: (575) 393-2432

Received: 01/26/2015 Sampling Date: 01/21/2015

Reported: 01/28/2015 Sampling Type: Soil

Project Name: CROW FEDERAL MEGA BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: PT. 4 @ 1.5' (H500237-03)

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	01/27/2015	ND	1.71	85.4	2.00	7.10	
Toluene*	0.105	0.050	01/27/2015	ND	1.66	82.8	2.00	6.42	
Ethylbenzene*	0.239	0.050	01/27/2015	ND	1.58	78.9	2.00	8.23	
Total Xylenes*	0.267	0.150	01/27/2015	ND	4.75	79.2	6.00	8.71	
Total BTEX	0.611	0.300	01/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 61-154	!						
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	14.9	10.0	01/26/2015	ND	192	96.1	200	1.01	
DRO >C10-C28	48.3	10.0	01/26/2015	ND	192	96.2	200	3.37	
Surrogate: 1-Chlorooctane	106 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	122 9	52.1-17	6						

Cardinal Laboratories \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

01/21/2015



# Analytical Results For:

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

Received: 01/26/2015 Sampling Date:

Reported: 01/28/2015 Sampling Type: Soil

Project Name: CROW FEDERAL MEGA BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: PT. 5 @ 6" (H500237-04)

Analyzed  01/27/2015  01/27/2015  01/27/2015  01/27/2015  01/27/2015	Method Blank  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	1.71 1.66 1.58 4.75	% Recovery 85.4 82.8 78.9 79.2	True Value QC 2.00 2.00 2.00 2.00 6.00	7.10 6.42 8.23 8.71	Qualifier
01/27/2015 01/27/2015 01/27/2015 01/27/2015	ND ND ND	1.66 1.58	82.8 78.9	2.00 2.00	6.42 8.23	
01/27/2015 01/27/2015 01/27/2015	ND ND ND	1.58	78.9	2.00	8.23	
01/27/2015 01/27/2015	ND ND					
01/27/2015	ND	4.75	79.2	6.00	8.71	
	d By: AP					
Analyze	d By: AP					
Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
01/27/2015	ND	432	108	400	3.77	
Analyze	d By: MS					
Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
01/26/2015	ND	192	96.1	200	1.01	
01/26/2015	ND	192	96.2	200	3.37	
	,	01/26/2015 ND	01/26/2015 ND 192	01/26/2015 ND 192 96.1	01/26/2015 ND 192 96.1 200	01/26/2015 ND 192 96.1 200 1.01

Cardinal Laboratories \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Surrogate: 1-Chlorooctadecane

120 %

52.1-176



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

Received: 01/26/2015 Sampling Date: 01/21/2015

Reported: 01/28/2015 Sampling Type: Soil

Project Name: CROW FEDERAL MEGA BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: PT. 5 @ 1' (H500237-05)

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	01/27/2015	ND	1.71	85.4	2.00	7.10	
Toluene*	<0.050	0.050	01/27/2015	ND	1.66	82.8	2.00	6.42	
Ethylbenzene*	<0.050	0.050	01/27/2015	ND	1.58	78.9	2.00	8.23	
Total Xylenes*	<0.150	0.150	01/27/2015	ND	4.75	79.2	6.00	8.71	
Total BTEX	<0.300	0.300	01/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/27/2015	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/26/2015	ND	192	96.1	200	1.01	
DRO >C10-C28	<10.0	10.0	01/26/2015	ND	192	96.2	200	3.37	
Surrogate: 1-Chlorooctane	111 %	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	119 9	52.1-17	6						

52.1 170

Cardinal Laboratories \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



#### **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

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

# ARDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: Apache	BILL TO	ANALYSIS REQUEST
Project Manager: Bruce Baker	P.O. #:	
Address:	Company:	
City: State: NM Zip:	Attn:	and a second sec
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	[   Z     I   S
Project Name:	State: Zip:	
Project Location: Crom Federal Mega BHM	Phone #:	Chlorides PH 8015 N BTEX Texas TPH TDS TDS
Sampler Name: Kyle #.	Fax #:	
FOR LAB USE ONLY MATE	X PRESERV. SAMPLING	
Lab I.D.   Sample I.D.   Lab I.D.   Sample I.D.   Lab	OTHER: OT	Complete Complete
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in analyses. All claims including those for negligence and any other cause whatboever shall be deemed walved uniters analon to exercise. In no event shall Cardinal be liable to incidental or consequential damages, liability limitation, business intensifilities or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether sy Relinquished By:    Date:	ging and received by Cardinal within 30 days after completion of 15 piones, loss of lose, of loss of profits incurred by cilent, its subsidisyletain is based upon any of the above statled reasons or otherwise profits in the control of the control	he applicable traines se.  suit:  Yes  No Add'l Phone #:  It: Yes  No Add'l Fax #:  S:
Sampler - UPS - Bus - Other:	act (Initials) onviron	mental tech: @rice-ecs.com

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



# Apache Crow Federal Mega Battery Unit Letter A & B, Section 9, T17S, R31E



Initial release area, facing northwest

1/23/15



Initial release area, facing west

1/23/15



Initial release area, facing west

1/23/15



Initial release area, facing north

1/23/15