

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

RE: 1RP-4924 WBDU 85

Mr. Billings,

In compliance with 19.15.29.15(B) NMAC and the agreement submitted by Apache Corporation on November 8, 2018, Apache Corporation is submitting information related to closure for the release occurring January 2, 2018. Apache is respectfully submitting the closure report based on remediation and studies occurring in 2019 that demonstrate the site meeting the requirements of the agency. Unless further information is requested by NMOCD, Apache Corporation considers this release closed.

If there are any questions, please feel free to contact me by telephone at 432-631-6982 or by e-mail at larry.baker@apachecorp.com

Sincerely,

Larry Baker

Environmental Technician SR.

Apache Corporation

Larry Baker

Attachment: Closure Report Dated October 6, 2020



Closure Report

October 6, 2020

Re: WBDU 85

API# 30-025-06652 Case # 1RP-4924

On January 2, 2018 Apache Corporation personal discovered an area of contamination on the east side of the well pad. The source of the release was a third party truck unloaded illegally from the pad into the pasture. An initial C-141 was submitted to NMOCD on January 9, 2018. The release area is located north of Eunice New Mexico (GPS Coordinates 32.4734573 - 103.1786652) in unit letter P section 17 Township 21S Range 37E. A search radius of 2000 meters for groundwater wells was conducted utilizing data from the NMOSE and USGS. Two USGS wells located within 2,000 feet of the release area estimate groundwater to be 71 feet. A corrective action plan was submitted an approved by OCD on July 20, 2018.

The release area was excavated in accordance with the OCD approved corrective action plan. 200 cubic yards of excavated soil was stockpiled on plastic at a height of one foot to allow for bio remediation in accordance with the OCD approved corrective action plan. The excavated soil that was not stockpiled was hauled to an OCD approved disposal facility. On February 5, 2019 final wall and bottom grab samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results were above table one standards at W9 and W10. On February 19, 2019 W9 was further excavated laterally and a final sample was collected and submitted to a commercial laboratory for analysis for chloride, TPH, and BTEX. On May 29, 2019 final grab samples were collected on the stockpiled soil and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Beginning on May 26, 2019 additional wall samples were collected and submitted to a commercial laboratory for chloride, TPH, and BTEX. Laboratory results for W23 were above table one standards. W23 was a 1 foot wall between the 6 foot and 5 foot excavation. W23 was dug to 6 feet and a final bottom sample (B11) was collected and submitted to a commercial laboratory for chloride.

The deeper excavation was backfilled to a depth of 2 feet with clean imported top soil. The top 2 feet was backfilled with the stockpiled top soil from the excavation and contoured to the surrounding area. The disturbed area was re-seeded in accordance with the surface landowner.

Apache Corporation has completed remediation to table one standards for release 51-100 feet to groundwater and respectfully request closure for event 1RP-4924.

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

Submitted by;

Bruce Baker
Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982 Off# 575-393-7106

Form C-141

Revised August 8, 2011

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

State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

			Rele	ease Notific	cation	and Co	orrective A	ction	ı			
						OPERA	ΓOR			al Report		Final Report
		pache Corpo				Contact Bi						
Address 2: Facility Na		rland Street,	Hobbs, I	NM 88240		Telephone I Facility Typ	No. (432) 631-6 be Injection W					
					•	•	e injection w	en				
Surface Ow	ner Privat	e		Mineral C)wner l	Private			API No	. 30-025-0)6652	
				LOCA	ATION	OF RE	LEASE					
Unit Letter P	Section 17	Township 21S	Range 37E	Feet from the 660'		South Line FSL	Feet from the 660'		West Line FEL		Coun Lea	-
						_	e <u>-103.1786652</u>					
Type of Rele	asa Drodu	na Watar		NAT	URE	OF REL	EASE Release 120 Bar	mala	Volumo D	Recovered	0	
Type of Refe	ase Produc	e water				volume of	Release 120 Bar	reis	volume K	recovered	U	
Source of Re	lease Unkn	own Truck				unknown	Iour of Occurrenc	e		Hour of Dis at 7:32 a.m.	covery	
Was Immedi	ate Notice (Yes [No Not R	equired	If YES, To Olivia Yu						
By Whom?							Iour 1/2/2018 at 1					
Was a Water	course Reac	ched?	Yes 🗵] No		If YES, Vo	olume Impacting t	he Wate	ercourse.			
On the morn	ing of 1/2/20		ation was	discovered on the		By C	Divia Yu at the past oaded the truck in	sture ea	st of the pad			
The majorit pad.	y of the co		is in the	pasture east and		_	d location. A si	_				
regulations a public health should their or the enviro	Il operators or the envir operations h nment. In a	are required to ronment. The ave failed to a	o report and acceptant adequately OCD accep	nd/or file certain report of a C-141 report investigate and r	release no ort by the remediate	otifications a e NMOCD m e contaminati	knowledge and und perform correct arked as "Final Roon that pose a three the operator of the control of the con	tive act eport" c eat to gr	ions for rele loes not reli round water	eases which eve the ope , surface wa	may en rator of ater, hu	ndanger f liability man health
	1						OIL CON:	SERV	ATION	DIVISIO	<u>N</u>	
Signature:	Bruc	Ba	her						A	V /		
Printed Nam						Approved by	Environmental S ₁	pecialis	t: U			
Title: Enviro	onmental Te	chnician				Approval Da	1/10/2018		Expiration I	Date:		
E-mail Addr	ess: larry.b	aker@apache	corp.com			Conditions of				Attached		
	2018			(432) 631-6982		see attac	hed directiv	е				
Attach Addi	tional Shee	ets If Necess	ary									

1RP-4924

nOY1801055905

pOY1801056219

Received by OCD: 10/6/202	20 4:34:20 PM
Form C-141	State of New Mexico
Page 6	Oil Conservation Division

Incident ID
District RP
Facility ID
Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name: Larry Baker	Title: Environmental Tech SR.
Signature: Larry Baker email: larry.baker@apachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.
Closure Approved by:	Date:
Printed Name:	Title:





Final Bottom Samples

							Ethybenze	Total	Total				
Date	Map ID	Lab ID	Depth	Lab Cl-	Benzene	Toluene	ne	Xylenes	BTEX	GRO	DRO	EXT DRO	GPS
													32.473679,
2/5/2019	B1	SP 1 @ 6'	6'	96.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178458
													32.473552,
2/5/2019	B2	SP 2 @ 1'	1'	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.7	<10.0	-103.178384
		SP2 # 2											32.473571,
2/5/2019	В3	@1'	1'	80.0	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178466
		SP2 # 3											32.473547,
2/5/2019	B4	@1'	1'	384	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	336	17.5	-103.178509
													32.473730,
2/5/2019	B5	SP 3@ 5'	5'	464	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178326
		SP 3 # 2 @											32.473664,
2/5/2019	В6	5'	5'	32	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178320
													32.473856,
2/5/2019	В7	SP 4 @ 3'	3'	80	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178513
		SP 4 # 2 @											32.473780,
2/5/2019	В8	3'	3'	576	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178559
		SP 4 #3 @											32.473686,
2/5/2019	В9	3'	3'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178555
		SP 5 @											32.473646,
2/5/2019	B10	1.5'	1.5'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178598
		BS # 3 @											32.473643,
7/8/2019	B11	6'	6'	640									-103.178396



Final Wall Samples

	Мар	Lab				Ethybenze	Total	Total				
Date	ID	ID	Lab Cl-	Benzene	Toluene	ne	Xylenes	BTEX	GRO	DRO	EXT DRO	GPS
		SP1 N										32.473727,
2/5/2019	W1	Wall	592	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178458
		SP 1 S										32.473609,
2/5/2019	W2	Wall	208	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178479
												32.473683,
2/5/2019	W3	SP1 E Wall	496	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178427
		SP1 W										32.473675,
2/5/2019	W4	Wall	560	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	12.3	<10.0	-103.178505
		SP 2 N										32.473571,
2/5/2019	W5	Wall	16.0	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178386
		SP 2 S										32.473534,
2/5/2019	W6	Wall	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178378
		SP 2 # 2										32.473580,
2/5/2019	W7	E Wall	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178443
		SP 2 # 2 W										32.473588,
2/5/2019	W8	Wall	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178523
		SP 2 # 3 W										32.473525,
2/5/2019	W9	Wall	320	<0.050	<0.050	0.472	<0.150	0.472	108	3260	427	-103.178529
		SP 3 W										
2/19/2019		Wall @ 1'	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		SP 2 # 3										32.473531,
2/5/2019	W10	E Wall	1040	<0.050	<0.050	0.062	0.365	0.427	28	1200	182	-103.178491
		SP 3 N										32.473784,
2/5/2019	W11	Wall	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178392
		SP 3 E										32.473708,
2/5/2019	W12	Wall	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178309
		SP 3 S										32.473630,
2/5/2019	W13	Wall	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178331
		SP 3 W										32.473704,
2/5/2019	W14	Wall	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178337
		SP 4 E										32.473789,
2/5/2019	W15	Wall	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	118	<10.0	-103.178513

		SP 4 W										32.473788,
2/5/2019	W16	Wall	80	< 0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178605
		SP5 N										32.473681,
2/5/2019	W17	Wall	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178606
		SP 5 S										32.473601,
2/5/2019	W18	Wall	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.3	<10.0	-103.178592
		SP 5 E										32.473647,
2/5/2019	W19	Wall	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178576
		SP 5 W										32.473637,
2/5/2019	W20	Wall	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178621
		Wall Point										32.473637,
6/26/2019	W21	1	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178336
		Wall Point										32.473510,
6/26/2019	W22	2	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178475
		Wall Point										32.473643,
6/27/2019	W23	3	13400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178396
		Wall Point										32.473715,
6/27/2019	W24	4	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178420
		Wall Point										32.473736,
6/26/2019	W25	5	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.4	<10.0	-103.178398
		Wall Point										32.473896,
6/26/2019	W26	6	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.178483
		NW # 3 @										32.473666,
7/8/2019	W27	6'	352									-103.178380



Spoil Pile Final Samples

						Ethybenze	Total				
Date	Map ID	Lab ID	Lab Cl-	Benzene	Toluene	ne	Xylenes	Total BTEX	GRO	DRO	EXT DRO
		NW									
5/29/2019	S1	Corner	304	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	233	<10.0
		SW									
5/29/2019	S2	Corner	224	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	157	<10.0
		SE									
5/29/2019	S 3	Corner	160	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	38	<10.0
5/29/2019	S4	NE Corner	416	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	38	<10.0



February 13, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WEDU #85

Enclosed are the results of analyses for samples received by the laboratory on 02/05/19 16:00.

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

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

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

Accreditation applies to public drinking water matrices.

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



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 6' (H900435-01)

DTEV 0021D

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2019	ND	1.88	93.9	2.00	0.925	
Toluene*	<0.050	0.050	02/10/2019	ND	1.77	88.3	2.00	0.381	
Ethylbenzene*	<0.050	0.050	02/10/2019	ND	1.71	85.4	2.00	2.49	
Total Xylenes*	<0.150	0.150	02/10/2019	ND	5.16	86.0	6.00	2.09	
Total BTEX	<0.300	0.300	02/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/11/2019	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	195	97.3	200	0.894	
DRO >C10-C28*	<10.0	10.0	02/11/2019	ND	195	97.6	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	83.5	% 41-142	,						
Surrogate: 1-Chlorooctadecane	82.6	% 37.6-14	7						

Analyzed By me

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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 N WALL (H900435-02)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2019	ND	1.88	93.9	2.00	0.925	
Toluene*	<0.050	0.050	02/10/2019	ND	1.77	88.3	2.00	0.381	
Ethylbenzene*	<0.050	0.050	02/10/2019	ND	1.71	85.4	2.00	2.49	
Total Xylenes*	<0.150	0.150	02/10/2019	ND	5.16	86.0	6.00	2.09	
Total BTEX	<0.300	0.300	02/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	02/11/2019	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	195	97.3	200	0.894	
DRO >C10-C28*	<10.0	10.0	02/11/2019	ND	195	97.6	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	91.8	% 41-142	,						
Surrogate: 1-Chlorooctadecane	91.9	% 37.6-14	7						

Analyzed By: me

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



Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 S WALL (H900435-03)

RTFY 8021R

B1EX 8021B	mg,	кg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2019	ND	1.88	93.9	2.00	0.925	
Toluene*	<0.050	0.050	02/10/2019	ND	1.77	88.3	2.00	0.381	
Ethylbenzene*	<0.050	0.050	02/10/2019	ND	1.71	85.4	2.00	2.49	
Total Xylenes*	<0.150	0.150	02/10/2019	ND	5.16	86.0	6.00	2.09	
Total BTEX	<0.300	0.300	02/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/11/2019	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	195	97.3	200	0.894	
DRO >C10-C28*	<10.0	10.0	02/11/2019	ND	195	97.6	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	89.8	% 41-142							
Surrogate: 1-Chlorooctadecane	89.6	% 37.6-14	7						

Analyzed By: me

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Celeg D. Freene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 02/05/2019

Reported: 02/13/2019
Project Name: WEDU #85
Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 E WALL (H900435-04)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Allulyzo	u by. III3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2019	ND	1.88	93.9	2.00	0.925	
Toluene*	<0.050	0.050	02/10/2019	ND	1.77	88.3	2.00	0.381	
Ethylbenzene*	<0.050	0.050	02/10/2019	ND	1.71	85.4	2.00	2.49	
Total Xylenes*	<0.150	0.150	02/10/2019	ND	5.16	86.0	6.00	2.09	
Total BTEX	<0.300	0.300	02/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	02/11/2019	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	195	97.3	200	0.894	
DRO >C10-C28*	<10.0	10.0	02/11/2019	ND	195	97.6	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	91.6	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	92.0	% 37.6-14	7						

Analyzed By: ms

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Celey D. Kune



Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 1 W WALL (H900435-05)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2019	ND	1.88	93.9	2.00	0.925	
Toluene*	<0.050	0.050	02/10/2019	ND	1.77	88.3	2.00	0.381	
Ethylbenzene*	<0.050	0.050	02/10/2019	ND	1.71	85.4	2.00	2.49	
Total Xylenes*	<0.150	0.150	02/10/2019	ND	5.16	86.0	6.00	2.09	
Total BTEX	<0.300	0.300	02/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	02/11/2019	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	195	97.3	200	0.894	
DRO >C10-C28*	12.3	10.0	02/11/2019	ND	195	97.6	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	88.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	88.9	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 02/05/2019

Reported: 02/13/2019 Project Name: WEDU #85 Project Number: NONE GIVEN Project Location: **NOT GIVEN**

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H900435-06)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2019	ND	1.88	93.9	2.00	0.925	
Toluene*	<0.050	0.050	02/10/2019	ND	1.77	88.3	2.00	0.381	
Ethylbenzene*	<0.050	0.050	02/10/2019	ND	1.71	85.4	2.00	2.49	
Total Xylenes*	<0.150	0.150	02/10/2019	ND	5.16	86.0	6.00	2.09	
Total BTEX	<0.300	0.300	02/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/11/2019	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	195	97.3	200	0.894	
DRO >C10-C28*	15.7	10.0	02/11/2019	ND	195	97.6	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	92.1	% 41-142	!						
Surrogate: 1-Chlorooctadecane	92.9	% 37.6-14	7						

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Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 2 N WALL (H900435-07)

RTFY 8021R

B1EX 8021B	mg,	rkg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/11/2019	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	195	97.3	200	0.894	
DRO >C10-C28*	<10.0	10.0	02/11/2019	ND	195	97.6	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	85.7	% 41-142							
Surrogate: 1-Chlorooctadecane	86.9	% 37.6-14	7						

Applyzod By: MC

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Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 2 S WALL (H900435-08)

RTFY 8021R

B1EX 8021B	mg/	ку	Allalyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/11/2019	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	195	97.3	200	0.894	
DRO >C10-C28*	<10.0	10.0	02/11/2019	ND	195	97.6	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	87.8	% 41-142							
Surrogate: 1-Chlorooctadecane	88.0	% 37.6-14	7						

Analyzed By: MC

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Analytical Results For:

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

Received: 02/05/2019

02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 2 #2 @ 1' (H900435-09)

Reported:

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	80.0	16.0	02/11/2019	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	195	97.3	200	0.894	
DRO >C10-C28*	<10.0	10.0	02/11/2019	ND	195	97.6	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	88.0	% 41-142	•						
Surrogate: 1-Chlorooctadecane	88.6	% 37.6-14	7						

Applyzod By: MC

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Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85 Project Number: NONE GIVEN Project Location: **NOT GIVEN**

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 2 #2 E WALL (H900435-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/11/2019	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	195	97.3	200	0.894	
DRO >C10-C28*	<10.0	10.0	02/11/2019	ND	195	97.6	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	92.7	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	92.9	% 37.6-14	7						

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Celey D. Keene



Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85 Project Number: NONE GIVEN Project Location: **NOT GIVEN**

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 2 #2 W WALL (H900435-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	< 0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	< 0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/11/2019	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	195	97.3	200	0.894	
DRO >C10-C28*	<10.0	10.0	02/11/2019	ND	195	97.6	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	86.9	% 41-142							
Surrogate: 1-Chlorooctadecane	86.2	% 37.6-14	7						

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Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 2 #3 @ 1' (H900435-12)

RTFY 8021R

B1EX 8021B	mg,	кg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 73.3-129	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/11/2019	ND	400	100	400	7.69	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	195	97.3	200	0.894	
DRO >C10-C28*	336	10.0	02/11/2019	ND	195	97.6	200	1.64	
EXT DRO >C28-C36	17.5	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	82.8	% 41-142							
Surrogate: 1-Chlorooctadecane	89.8	% 37.6-14	7						

Applyzod By: MC

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Analytical Results For:

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

Received: 02/05/2019
Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 2 #3 W WALL (H900435-13)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	0.472	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	0.472	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	84.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/11/2019	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	108	10.0	02/11/2019	ND	195	97.3	200	0.894	
DRO >C10-C28*	3260	10.0	02/11/2019	ND	195	97.6	200	1.64	
EXT DRO >C28-C36	427	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	92.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	182	% 37.6-14	7						

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Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 2 #3 E WALL (H900435-14)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	0.062	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	0.365	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	0.427	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	02/11/2019	ND	400	100	400	7.69	
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*	28.0	10.0	02/11/2019	ND	195	97.3	200	0.894	
DRO >C10-C28*	1200	10.0	02/11/2019	ND	195	97.6	200	1.64	
EXT DRO >C28-C36	182	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	93.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	113 9	% 37.6-14	7						

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Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85 Project Number: NONE GIVEN Project Location: **NOT GIVEN**

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 3 @ 5' (H900435-15)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/11/2019	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	89.6	% 41-142	!						
Surrogate: 1-Chlorooctadecane	96.7	% 37.6-14	7						

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Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 N WALL (H900435-16)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 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	16.0	16.0	02/11/2019	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	87.3	% 41-142							
Surrogate: 1-Chlorooctadecane	93.7	% 37.6-14	7						

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Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 E WALL (H900435-17)

BTEX 8021B

	91	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 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	48.0	16.0	02/11/2019	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	80.9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	87.4	% 37.6-14	7						

Analyzed By: MS

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Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 #2 @ 5' (H900435-18)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/11/2019	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	79.9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	86.3	% 37.6-14	7						

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Analytical Results For:

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

Received: 02/05/2019
Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 S WALL (H900435-19)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 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	48.0	16.0	02/11/2019	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	85.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.1	% 37.6-14	7						

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Analytical Results For:

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

 Received:
 02/05/2019

 Reported:
 02/13/2019

 Project Name:
 WEDU #85

Project Name: WEDO #65

Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 3 W WALL (H900435-20)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 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	32.0	16.0	02/11/2019	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	87.4	% 41-142	,						
Surrogate: 1-Chlorooctadecane	91.7	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 3' (H900435-21)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/11/2019	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	92.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	100	% 37.6-14	7						

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Analytical Results For:

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

Received: 02/05/2019 02/13/2019

Project Name: WEDU #85 Project Number: NONE GIVEN Project Location: **NOT GIVEN**

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 4 #2 @ 3' (H900435-22)

Reported:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/11/2019	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	82.6	% 41-142	!						
Surrogate: 1-Chlorooctadecane	89.1	% 37.6-14	7						

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Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85 Project Number: NONE GIVEN Project Location: **NOT GIVEN**

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 4 #3 @ 3' (H900435-23)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/11/2019	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	89.8	% 41-142	!						
Surrogate: 1-Chlorooctadecane	96.5	% 37.6-14	7						

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Analytical Results For:

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

 Received:
 02/05/2019
 Sampling Date:
 02/05/2019

 Reported:
 02/13/2019
 Sampling Type:
 Soil

Project Name: WEDU #85 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: NOT GIVEN

Sample ID: SP 4 E WALL (H900435-24)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/11/2019	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	118	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	83.1	% 41-142	•						
Surrogate: 1-Chlorooctadecane	93.2	% 37.6-14	7						

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Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85 Project Number: NONE GIVEN Project Location: **NOT GIVEN**

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 4 W WALL (H900435-25)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	< 0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/11/2019	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	91.5	% 41-142	!						
Surrogate: 1-Chlorooctadecane	98.3	% 37.6-14	7						

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Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 5 @ 1.5' (H900435-26)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	3.99	
Toluene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	4.58	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.06	103	2.00	5.74	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.13	102	6.00	3.23	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/11/2019	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	90.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	99.2	% 37.6-14	7						

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Analytical Results For:

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

Received: 02/05/2019 Sampling Date: 02/05/2019 Reported: 02/13/2019 Sampling Type: Soil

Project Name: WEDU #85 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: SP 5 N WALL (H900435-27)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2019	ND	2.07	103	2.00	0.807	
Toluene*	<0.050	0.050	02/12/2019	ND	1.94	97.1	2.00	0.796	
Ethylbenzene*	< 0.050	0.050	02/12/2019	ND	1.90	95.0	2.00	1.18	
Total Xylenes*	<0.150	0.150	02/12/2019	ND	5.69	94.9	6.00	1.47	
Total BTEX	<0.300	0.300	02/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/11/2019	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	84.5 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	93.1	% 37.6-14	7						

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Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 5 S WALL (H900435-28)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2019	ND	2.07	103	2.00	0.807	
Toluene*	<0.050	0.050	02/12/2019	ND	1.94	97.1	2.00	0.796	
Ethylbenzene*	<0.050	0.050	02/12/2019	ND	1.90	95.0	2.00	1.18	
Total Xylenes*	<0.150	0.150	02/12/2019	ND	5.69	94.9	6.00	1.47	
Total BTEX	<0.300	0.300	02/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/11/2019	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	12.3	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	84.0	% 41-142	•						
Surrogate: 1-Chlorooctadecane	94.3	% 37.6-14	7						

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Analytical Results For:

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

Received: 02/05/2019
Reported: 02/13/2019
Project Name: WEDU #85

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 E WALL (H900435-29)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2019	ND	2.07	103	2.00	0.807	
Toluene*	<0.050	0.050	02/12/2019	ND	1.94	97.1	2.00	0.796	
Ethylbenzene*	<0.050	0.050	02/12/2019	ND	1.90	95.0	2.00	1.18	
Total Xylenes*	<0.150	0.150	02/12/2019	ND	5.69	94.9	6.00	1.47	
Total BTEX	<0.300	0.300	02/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/11/2019	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	90.7	% 41-142							
Surrogate: 1-Chlorooctadecane	96.4	% 37.6-14	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. Keene



Analytical Results For:

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

Received: 02/05/2019 Reported: 02/13/2019

Project Name: WEDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/05/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 5 W WALL (H900435-30)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2019	ND	2.07	103	2.00	0.807	
Toluene*	<0.050	0.050	02/12/2019	ND	1.94	97.1	2.00	0.796	
Ethylbenzene*	<0.050	0.050	02/12/2019	ND	1.90	95.0	2.00	1.18	
Total Xylenes*	<0.150	0.150	02/12/2019	ND	5.69	94.9	6.00	1.47	
Total BTEX	<0.300	0.300	02/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/11/2019	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	210	105	200	0.121	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	228	114	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					
Surrogate: 1-Chlorooctane	89.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	97.3	% 37.6-14	7						

Analyzed By: me

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



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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 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 of 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.

Celey D. Keene

Date: Time:

Sampler - UPS - Bus - Other: -0.40

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Sample Condition
Cool Intact
Lives Lives
No No

(Initials)

Cardinal cannot accent verbal channes Blease fav written channes to (ETE) 20222296

Delivered By: (Circle One)



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Dock In		01.778		ANALYSIS REQUEST
Project Manager: Bruce Bulley		P.O. #:		
Address:		Company:		
city:Hobbs	State: () of Zip: 88240	Attn:		
	Fax#:	Address:		
Project #:	Project Owner:	City:		
Project Name:	in .	State: Zip:		
Project Location; WeDu 85		Phone #:		
Sampler Name: // () () ()		Fax #:		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	(G)RAB) R (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL ØIL SLUDGE	OTHER: ACID/BASE: ICE COOL OTHER:	Ext TPH Btex	
186166	-	1000	1:00	
2 SP I De wall	0 - - X	_	11:02	
3 Sp 1 8 wall	P -	-	1.06.1	
4 Sp 1 6 mall	<u>Q</u>		1:00	
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7 SP 2 N wall	G	/ /	1/1	
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9 SP 2 # 9 @ -	S -	/	7/1	
10 SP 2#2 6 -		- #	11:23 ///	
**************************************	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 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 applicable renvice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, is subsidiaries, stiffaces or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	or tort, shall be limited to the amount paid by received by Cardinal within 30 days after co ss of use, or loss of profits incurred by clien based upon any of the above stated reasor	the client for the impletion of the applicable t, its subsidiaries, its or otherwise.	
Relinquished By	Pater S 19 Received By:	D	Phone Result:	Add'l Phone #: Add'l Fax #:
Relinquished By:	Date: Received By:	Mash	REMARKS:	
Sindanie Dj.				

Time: 6:

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes

□ No

Add'I Phone #: Add'I Fax #:

Email Results



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:		6/140		ANALYSIS REQUEST
Project Manager: 3 March Bolle		P.O. #:		
Address:		Company:		
City: 以のから State: ひょん i	Zip: 88240	Attn:		
Phone #: Fax #:		Address:		
Project #: Project Owner:		City:		
Project Name:		State: Zip:		
Project Location: WeDU 85		Phone #:	200	
Sampler Name: Ore (), with the		Fax #:	.	
	MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	DANOR (C)OMI DINTAINERS DUNDWATER STEWATER DOGE	ER: D/BASE: COOL ER:	xt TPL	
11 542 # 2 5821	- #	2/5 //		
12 SP2 #3 @11	<u>ا</u>	1 1 1 //:	1:27 / / /	
13 SP2 #3 w well	1	11	1 /	
14 SP2 #3 E wall	1	-	[]:3]	
15 SP 3 @ 5'	7	=	-:33 7	
16 SP 3 N well	- l		1:37///	
17593 Ewal)		1:34 / / /	
18 SP 3 # 2 @ SI	1	- In:	7 /	
19 SP3 S(Jen))	() () 11:	1.42 / / /	
10 SP 3	(1)(ii	(i.f.2 //	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligance and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligance and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	claim arising whether based in contract o	r tort, shall be limited to the amount paid by the eceived by Cardinal within 30 days after compl	client for the etion of the applicable	-
affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim; is based upon any of the above stated reasons or otherwise.	thout limitation, business interruptions, lo- simal, regardless of whether such claim is	ss of use, or loss of profits incurred by client, its based upon any of the above stated reasons o	subsidiaries, r otherwise.	
Search State	Recgived By:	Pho	Phone Result: Yes No	Add'l Phone #:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

24.0-

5#1

Sample Condition
Cool Intact
Yes Yes
No No

Time: Date:

Time !

Received By:

Time:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	: It person			6	8/11/2				A	ANALYSIS	REQUEST	
Project Manager:	141.30		F	P.O. #:			-		_	- 1		
Address:			0	Company:								
city: Hobbys	State: NM zip: 88240	Zip: 8		Attn:								888
Phone #:	Fax #:		P	Address:								
Project #:	Project Owner:		0	City:								
Project Name:			Ø	State:	Zip:							8
Project Location: (ኢ/	ii WUDU AN		70	Phone #:								
Sampler Name:	\mathcal{O}_{μ}		TI	Fax #:								
FOR LAB USE ONLY	7		MATRIX	PRESERV.	V. SAMPLING	ได้						
Lab I.D.	Sample I.D.	ABOR (C)OMP.	100000	/BASE: COOL	EK:		4 7011	TEV	0.25			
HOOY35		# CO	-	ACID	DATE	TIME	0	B				
21	SP 4 B 3	5	/	(9 W	/ m:11	/ /	1				
22	P2#203	S -	/	/	_	11: Ma -	<i>X</i>					
23	84 #3 631	S -	/	1		12:11	′	/				
24	SP 4 F wall	@ 	/	/			/	/				
25	SP 4 woull	C	/	/	2/5	1.57	/	7				
126	SP5@1.5'	S .	-	- 6-	275	2:28pm	~	-				
27	575 Nwall	6	-	-		2.3/00	~	r				
2%	Sps Swal	1	~	-/		いいない	_	,				
2	SPS Frall	5 1	1	. /	_	いながら	7	. y				
R	508 Wall	07 1	1	1		2.40m	^	6				
'LEASE NOTE: Liability an nalyses. All claims includin	**************************************	ıy claim aris eemed waiı	sing whether based in contract or ved unless made in writing and re	ort, shall be limit beived by Cardin	ed to the amount paid al within 30 days after	by the client for the completion of the ap-	plicable					
ervice. In no event shall Ca	envice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, of slight or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	without limit	tation, business interruptions, loss ardless of whether such claim is b	of use, or loss o	f profits incurred by cl	ent, its subsidiaries, sons or otherwise.						
Relinquished By:	Dayles -	Recei	Received By:			Phone Result:				Add'l Phone #:		
You a Level	Time;			Z	2	REMARKS:		Yes L No		Add'I Fax #:		
1		1										_

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

-0.40

Sample Condition
Cool Intact
Yes Pyes
No No

CHECKED BY:

Email Results



February 25, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU #85

Enclosed are the results of analyses for samples received by the laboratory on 02/19/19 15:40.

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

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

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

Accreditation applies to public drinking water matrices.

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



Analytical Results For:

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

 Received:
 02/19/2019

 Reported:
 02/25/2019

 Project Name:
 WBDU #85

Project Name: WBDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/19/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 3 W WALL @ 1' (H900648-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.76	88.2	2.00	1.44	
Toluene*	<0.050	0.050	02/22/2019	ND	1.76	88.2	2.00	0.983	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.77	88.3	2.00	0.536	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.13	85.4	6.00	0.367	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/21/2019	ND	416	104	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	02/21/2019	ND	192	96.1	200	1.37	
DRO >C10-C28*	<10.0	10.0	02/21/2019	ND	222	111	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	99.2	% 41-142	•						
Surrogate: 1-Chlorooctadecane	99.3	% 37.6-14	7						

A -- - | -- - - - | D- -- -- --

Cardinal Laboratories *=Accredited Analyte

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Celey & Freene



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

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Celeg D. Freene

Relinquished By:

Date: 19-19 Time: 40 Date:

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes

□ □ No

Add'l Phone #: Add'l Fax #:

Received By:

Time:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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P.O. #:	
Company:	
4C Attn:	
Address:	
City:	
State: Zip:	
Phone #:	
Fax#:	
MATRIX PRESERV. SAMPLING	
GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE// COOL OTHER: DATE	CI EXT TPH BIEN
V 2/19 8:50Am	
hother based in contract or bot shall be included to the amount sold by the alice that the	
23	Attn: Address: City: State: Zip: Phone #: Fax #: Phone #: Fax #: DATE TIME Sol Date of the amount paid by the clear for the care in writing and received by Cardinal wathin 20 days after completion of the clear for the care in writing and received by Cardinal wathin 20 days after completion of the care in writing and received by Cardinal wathin 20 days after completion of the care in writing and received by Cardinal wathin 20 days after completion of the care in writing and received by Cardinal wathin 20 days after completion of the care in writing and received by Cardinal wathin 20 days after completion of the care in writing and received by Cardinal wathin 20 days after completion of the care in writing and received by Cardinal wathin 20 days after completion of the care in writing and received by Cardinal wathin 20 days after completion of the care in writing and care in writing an

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

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CHECKED BY: (Initials)

Emer / Rusults



June 04, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU #85

Enclosed are the results of analyses for samples received by the laboratory on 05/29/19 15:10.

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

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

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

Accreditation applies to public drinking water matrices.

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



Analytical Results For:

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

Received: 05/29/2019 Reported: 06/04/2019

Project Name: WBDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/29/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NW CORNER (H901896-01)

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	05/31/2019	ND	1.90	95.0	2.00	2.08	
Toluene*	<0.050	0.050	05/31/2019	ND	2.05	103	2.00	4.89	
Ethylbenzene*	<0.050	0.050	05/31/2019	ND	1.95	97.5	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/31/2019	ND	5.92	98.6	6.00	2.92	
Total BTEX	<0.300	0.300	05/31/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/03/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2019	ND	189	94.6	200	1.62	
DRO >C10-C28*	233	10.0	05/31/2019	ND	195	97.5	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/31/2019	ND					
Surrogate: 1-Chlorooctane	94.0	% 41-142	1						
Surrogate: 1-Chlorooctadecane	104 9	37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celeg & Freene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 05/29/2019 Sampling Date: 05/29/2019 Reported: 06/04/2019 Sampling Type: Soil

Project Name: WBDU #85 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: **NOT GIVEN**

Sample ID: SW CORNER (H901896-02)

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	05/31/2019	ND	1.90	95.0	2.00	2.08	
Toluene*	<0.050	0.050	05/31/2019	ND	2.05	103	2.00	4.89	
Ethylbenzene*	<0.050	0.050	05/31/2019	ND	1.95	97.5	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/31/2019	ND	5.92	98.6	6.00	2.92	
Total BTEX	<0.300	0.300	05/31/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/03/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2019	ND	189	94.6	200	1.62	
DRO >C10-C28*	157	10.0	05/31/2019	ND	195	97.5	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/31/2019	ND					
Surrogate: 1-Chlorooctane	86.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	100	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 05/29/2019 Reported: 06/04/2019

Project Name: WBDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/29/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SE CORNER (H901896-03)

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	05/31/2019	ND	1.90	95.0	2.00	2.08	
Toluene*	<0.050	0.050	05/31/2019	ND	2.05	103	2.00	4.89	
Ethylbenzene*	<0.050	0.050	05/31/2019	ND	1.95	97.5	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/31/2019	ND	5.92	98.6	6.00	2.92	
Total BTEX	<0.300	0.300	05/31/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/03/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2019	ND	189	94.6	200	1.62	
DRO >C10-C28*	38.0	10.0	05/31/2019	ND	195	97.5	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/31/2019	ND					
Surrogate: 1-Chlorooctane	93.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.7	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 05/29/2019

Reported: 06/04/2019
Project Name: WBDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/29/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NE CORNER (H901896-04)

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	05/31/2019	ND	1.90	95.0	2.00	2.08	
Toluene*	<0.050	0.050	05/31/2019	ND	2.05	103	2.00	4.89	
Ethylbenzene*	<0.050	0.050	05/31/2019	ND	1.95	97.5	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/31/2019	ND	5.92	98.6	6.00	2.92	
Total BTEX	<0.300	0.300	05/31/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/03/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2019	ND	189	94.6	200	1.62	
DRO >C10-C28*	135	10.0	05/31/2019	ND	195	97.5	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/31/2019	ND					
Surrogate: 1-Chlorooctane	86.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	94.7	% 37.6-14	7						

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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: HOULENS	BILL TO	ANALYSIS REQUEST
or deferre	BOXEN P.O. #:	
0	Company:	
City: State: Zip:	Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name:	State: Zip:	
Project Location: WRDD GS	#:	
Sampler Name: Octo Chel RCio Sen	Fax #:	
	MATRIX PRESERV SAMPLING	
Lab I.D. Sample I.D. AB OR (C)OMP. NTAINERS	JNDWATER FEWATER GE FR: BASE: COOL	TP/
AV 30	GROU WAST SOIL OIL SLUD OTHE	
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CONTRACTOR OF THE PROPERTY OF	13000	
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	ising whether based in contract or tort, shall be limited to the amount paid by the cli	nt for the
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	aived unless made in writing and received by Cardinal within 30 days after completio riltation, business interruptions, loss of use, or loss of profits incurred by client, its su gardless of whether such claim is based upon any of the above stated reasons or out	of the applicable siddlers,
Reimquished by: S-29-19 Rece	Received By: Phone Result: Fax Result:	Phone Result:
Relinquished By: Time:	Received By:	mail Resu
Delivered By: (Circle One)	ndition CH	
Sampler - UPS - Bus - Other: 1.1 c #97	Aves Aves	



June 28, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU #85

Enclosed are the results of analyses for samples received by the laboratory on 06/26/19 16:12.

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

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

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

Accreditation applies to public drinking water matrices.

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



Analytical Results For:

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

Received: 06/26/2019 Reported: 06/28/2019

Project Name: WBDU #85
Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WALL POINT 1 (H902190-01)

DTEV 0021D

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	06/27/2019	ND	2.04	102	2.00	0.644	
Toluene*	<0.050	0.050	06/27/2019	ND	2.08	104	2.00	0.380	
Ethylbenzene*	<0.050	0.050	06/27/2019	ND	1.94	96.9	2.00	1.34	
Total Xylenes*	<0.150	0.150	06/27/2019	ND	5.95	99.1	6.00	1.78	
Total BTEX	<0.300	0.300	06/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/27/2019	ND	416	104	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	06/28/2019	ND	214	107	200	1.29	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	228	114	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	91.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	98.0	% 37.6-14	7						

Analyzed By me

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Analytical Results For:

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

Received: 06/26/2019 Reported: 06/28/2019

Project Name: WBDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WALL POINT 2 (H902190-02)

RTFY 8021R

BIEX 8021B	mg,	^и кд	Anaiyze	ea By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2019	ND	2.04	102	2.00	0.644	
Toluene*	<0.050	0.050	06/27/2019	ND	2.08	104	2.00	0.380	
Ethylbenzene*	<0.050	0.050	06/27/2019	ND	1.94	96.9	2.00	1.34	
Total Xylenes*	<0.150	0.150	06/27/2019	ND	5.95	99.1	6.00	1.78	
Total BTEX	<0.300	0.300	06/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/27/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	214	107	200	1.29	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	228	114	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	87.2	% 41-142							
Surrogate: 1-Chlorooctadecane	95.2	% 37.6-14	7						

Analyzed By: me

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Analytical Results For:

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

Received: 06/26/2019 Reported: 06/28/2019

Project Name: WBDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WALL POINT 6 (H902190-03)

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	06/27/2019	ND	2.04	102	2.00	0.644	
Toluene*	<0.050	0.050	06/27/2019	ND	2.08	104	2.00	0.380	
Ethylbenzene*	<0.050	0.050	06/27/2019	ND	1.94	96.9	2.00	1.34	
Total Xylenes*	<0.150	0.150	06/27/2019	ND	5.95	99.1	6.00	1.78	
Total BTEX	<0.300	0.300	06/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/27/2019	ND	416	104	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	06/28/2019	ND	214	107	200	1.29	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	228	114	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	85.3	% 41-142							
Surrogate: 1-Chlorooctadecane	90.3	% 37.6-14	7						

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Analytical Results For:

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

Received: 06/26/2019
Reported: 06/28/2019
Project Name: WBDU #85

Project Name: WBDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WALL POINT 5 (H902190-04)

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	06/27/2019	ND	2.04	102	2.00	0.644	
Toluene*	<0.050	0.050	06/27/2019	ND	2.08	104	2.00	0.380	
Ethylbenzene*	<0.050	0.050	06/27/2019	ND	1.94	96.9	2.00	1.34	
Total Xylenes*	<0.150	0.150	06/27/2019	ND	5.95	99.1	6.00	1.78	
Total BTEX	<0.300	0.300	06/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/27/2019	ND	416	104	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	06/28/2019	ND	214	107	200	1.29	
DRO >C10-C28*	23.4	10.0	06/28/2019	ND	228	114	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	87.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.6	% 37.6-14	7						

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Notes and Definitions

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.
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 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: MOCCOND	3/4/10	ANALYSIS REQUEST
Project Manager: July Cruy Brown	P.O. #:	
0	Company:	
City: Plobbs State: N.W. Zip: 88240		
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name:	State: Zip:	
Project Location: WBDU &S	#:	
Sampler Name: Ook William	Fax #:	
	MATRIX PRESERV, SAMPLING	
RS		PH
CONTAINE GROUNDWA	SOIL DIL SLUDGE DTHER: ACID/BASE: DTHER:	CI EXT T BTEX
Wall Point 1 G	1 6/20 14:41	
wall	1 16/31 16/31 1	
wall found (o.	1 6/26 IH:SI	
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analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waked unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of uses of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	reaseu in comitant or torit, shall be limited to the amount paid by the client for the made in writing and received by Cardinal within 30 days after completion of the ap tess interruptions, tess of use, or less of profits incurred by client, its subsidiaries, hether such claim is based upon any of the above stated reasons or otherwise.	plicable
Time: Received By:	CONT.	t: Yes No Add'l Phone #:
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Sampler - UPS - Bus - Other:	6 B) Proces Record By a portion for the form



July 01, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU #85

Enclosed are the results of analyses for samples received by the laboratory on 06/27/19 14:50.

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

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

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

Accreditation applies to public drinking water matrices.

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



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 06/27/2019

Reported: 07/01/2019
Project Name: WBDU #85
Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 06/27/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WALL POINT 4 (H902217-01)

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	06/28/2019	ND	1.93	96.3	2.00	2.58	
Toluene*	<0.050	0.050	06/28/2019	ND	1.93	96.7	2.00	1.70	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.85	92.6	2.00	1.64	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.60	93.3	6.00	1.49	
Total BTEX	<0.300	0.300	06/28/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/28/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	203	102	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	198	99.1	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	104	% 41-142	?						
Surrogate: 1-Chlorooctadecane	107	% 37.6-14	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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kune



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 06/27/2019 Reported: 07/01/2019

Project Name: WBDU #85
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/27/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WALL POINT 3 (H902217-02)

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	06/28/2019	ND	1.93	96.3	2.00	2.58	
Toluene*	<0.050	0.050	06/28/2019	ND	1.93	96.7	2.00	1.70	
Ethylbenzene*	< 0.050	0.050	06/28/2019	ND	1.85	92.6	2.00	1.64	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.60	93.3	6.00	1.49	
Total BTEX	<0.300	0.300	06/28/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13400	16.0	06/28/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2019	ND	189	94.3	200	3.68	
DRO >C10-C28*	<10.0	10.0	06/29/2019	ND	191	95.3	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	06/29/2019	ND					
Surrogate: 1-Chlorooctane	87.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.5	% 37.6-14	7						

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Celey D. Kune



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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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	or the control of the	3/18 3/6			
Project Manager: Jeff Color Broom	ס.	P.O. #:	The manufacture of the second	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	\bot
d	C	Company:			
City: 14000s state: 4) 11 z	Zip:88340 At	Attn:			
Phone #: Fax #:	Ac	Address:			
Project #: Project Owner:	Ci	City:			
Project Name:	St	State: Zip:			
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Sampler Name:	Ta a	Fax #:			
\mathbf{k}	L	2000	<u></u>		
רטא נאם טאב ניאני	R	PRESERV. SAMPLING	DLI		
Lab I.D. Sample I.D.	DRAB OR (C)(CONTAINERS) ROUNDWATE ASTEWATER DIL L UDGE THER:	ID/BASE: D/ COOL HER :	O/ BREV		
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**************************************	claim arising whether based in contract or tor med waived unless made in writing and rece hout limitation, business interruptions, loss o hout limitation, business interruptions is bas inal, regardless of whether such claim is bas	rt, shall be limited to the amount paid by ived by Cardinal within 30 days after co if use, or loss of profits incurred by clien ad uson any of the above stated reason	/ the client for the myplicable mypletion of the applicable it, its substituties, it, its substituties, its or otherwise.		L
Relinquished By:	Received By:	1 / N	Phone Result:	Add'l Phone #: Add'l Fax #:	
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Sampler - UPS - Bus - Other:	Yes Tres	70 minas	6 Cotton B		



July 09, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU #85

Enclosed are the results of analyses for samples received by the laboratory on 07/08/19 14:08.

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

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

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

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



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 07/08/2019

Reported: 07/09/2019 Project Name: WBDU #85

Project Number: Project Location: NOT GIVEN Sampling Date: 07/08/2019

Sampling Type: Soil

% Recovery

BS

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

True Value QC

RPD

Oualifier

Sample ID: BS #3 @ 6' (H902315-01)

Chloride, SM4500Cl-B

mg/kg

NONE GIVEN

Analyzed By: AC

Reporting Limit Analyzed Method Blank Analyte Result

640 07/09/2019 400 Chloride 16.0 ND 100 400 3.92

Sample ID: NW #3 @ 6' (H902315-02)

Chloride, SM4500Cl-B Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 352 16.0 07/09/2019 ND 400 100 400 3.92

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Celeg D. Keene 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

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Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Apoc ha		BILL 70		ANALYSIS REQUEST	
Project Manager:) ellaun Brown	P.				
Address:	C	Company:			
City: Hobbs State: Nill z	Zip: 88340 AI	Attn:			
Phone #: Fax #:	A	Address:			
Project #: Project Owner:	Ci	City:			
Project Name:	St	State: Zip:			
Project Location: WBDU #85	PI	#			
Sampler Name: Sugo Quuscok	Fa	Fax #:			
	MATRIX	PRESERV. SAMPLING	G		
Lab I.D. Sample I.D.		/BASE: COOL	/		
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2 No # 3 @ 6.	6/	814	12:36		
out of or related to the performance of	alaim arising whether based in contract or to med waived unless made in writing and rece hout limitation, business interruptions, loss on the manual regardless of whether such claim is base.	ort, shall be limited to the amount paid be sived by Cardinal within 30 days after or of use, or loss of profits incurred by clies sed upon any of the above stated reason	y the client for the ompletion of the applicable nt, its subsidiaries, as or otherwise.		
	Received by:		Phone Result: ☐ Yes Fax Result: ☐ Yes REMARKS:	□ No Add'I Phone #: □ No Add'I Fax #:	
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Sampler - UPS - Bus - Other: 4.6 e #9		T. S.	Charl	or topy hour	

Photos











Page 79 of 80

Incident ID	NOY1801055905
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name: Larry Baker	Title: Environmental Tech SR.
Signature: Larry Baker	Date: 10/6/2020
email: larry.baker@apachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by: Robert Hamlet	Date:3/9/2021
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Robert Hamlet	Date: 3/9/2021
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

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

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 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

Action 10547

CONDITIONS OF APPROVAL

Operator	:		OGRID:	Action Number:	Action Type:
	APACHE CORPORATION	303 Veterans Airpark Ln	873	10547	C-141
#1000	Midland, TX79705				

OCD Reviewer	Condition
rhamlet	We have received your closure report and final C-141 for Incident #NOY1801055905 WBDU 85, thank you. This closure is approved.