

Deferment Request

April 21, 2020

Re: Werta Federal CTB API# 30-025-27696 Case # 1RP-5375

On February 6, 2019 a release occurred due to livestock breached the battery fence and rubbed up on the oil circulating pump bleed off valve causing it to open. An initial C-141 was submitted and approved by NMOCD on February 21, 2019. The Werta Federal CTB (GPS: 32.61018, -103.11777) is located south of Hobbs, NM in unit letter O section 35 township 19S range 38E. A remediation plan was submitted and denied on December 13, 2019. On January 15, 2020 a soil bore was conducted on the west side of the lease pad and advanced to a depth of 55 feet. The bore hole was left open for more than 48 hours and utilizing a water meter which indicated no presence of water to a depth of 55 feet.

On February 15, 2019 samples were collected utilizing a hand shovel to a depth of one foot. All samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On April 16, 2019 further delineation was conducted utilizing a backhoe and hand auger to various depths of 4 to 5.7 feet. All samples collected were submitted to a commercial laboratory for analysis of TPH, and BTEX. Hard rock was encountered at 5 feet a SP 1 and the backhoe could only achieve a depth of 5.7 feet.

On January 15, 2020 a soil bore was conducted in five foot intervals at SP 1 from 10' to 25'. All samples collected were submitted to a commercial laboratory for analysis of TPH and BTEX. All samples were below table one standards for TPH and BTEX. Horizontal composite samples were collect on March 9, 2020 not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

Due to the release is in the vicinity and around active infrastructure Apache Corporation respectfully request that remediation be deferred until system abandonment.

Enclosed: Initial C-141, Groundwater Data, Maps, Sample Data, and Laboratory Analysis

Submitted by;

Environmental Technician larry.baker@apachecorp.com

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

Bruce Baker

District I 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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAB1905229182
District RP	1RP-5375
Facility ID	
Application ID	pAB1905228355

Release Notification

			Resp	onsible Party	y		
Responsible I	Party Ap	ache Corporation	1	OGRID	873		
Contact Name		ruce Baker		Contact Te	elephone 432-631-6982		
Contact emai	l lar	ry.baker@apac	hecorp.com	Incident #	(assigned b) OCD) NAB1905229182		
Contact maili			nd BLVD Hobbs	s, NM 88240			
				of Release So	ource		
Latitude	32	.61018		Longitude	-103.11777		
			(NAD 83 in dec	cimal degrees to 5 decin	nal places)		
Site Name W	/erta Fed	eral CTB		Site Type	Battery		
Date Release					olicable) 30-025-27696		
Unit Letter	Section	Township	Range	Cour	<u> </u>		
O 35 19S 38E Lea							
Surface Owner	: State	☐ Federal ☐ Tr	ribal 🔽 Private (/	Name Apa	che Corporation		
			Nature and	l Volume of l	Release		
Crude Oil		(s) Released (Select al	that apply and attach (bbls) 130 ba	calculations or specific	Volume Recovered (bbls) 120 harrale		
Produced		Volume Release		arreis	Volume Recovered (bbls) 120 barrels Volume Recovered (bbls)		
	Walci	<u> </u>	tion of dissolved c	blasida in the	Yes No		
		produced water		mioride in the	L tes L No		
☐ Condensa	te	Volume Release	ed (bbls)		Volume Recovered (bbls)		
☐ Natural G	as	Volume Release	ed (Mcf)		Volume Recovered (Mcf)		
Other (de:	scribe)	Volume/Weight	Released (provide	e units)	Volume/Weight Recovered (provide units)		
Cause of Rel	LIVU.	stock breache opening it.	ed battery fend	ce and rubbed	up on the oil circulating pump bleed off		

State of New Mexico Oil Conservation Division

Incident ID	NAB1905229182
District RP	1RP-5375
Facility ID	
Application ID	pAB1905228355

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsit Oil release was greater than 25 ba	
☑ Yes ☐ No		
	d Jim Griswold and Christina Herna	n? When and by what means (phone, email, etc)? Indez of NMOCD and Shelly Tucker (BLM) via
	Initial Res	ponse
The responsible	party must undertake the following actions immediately w	uless they could create a safety hazard that would result in injury
☑ The source of the rel	ease has been stopped.	
☑ The impacted area ha	as been secured to protect human health and the	e environment.
Released materials h	ave been contained via the use of berms or dike	es, absorbent pads, or other containment devices.
☑ All free liquids and r	recoverable materials have been removed and m	nanaged appropriately.
If all the actions describe	ed above have <u>not</u> been undertaken, explain wh	y;
has begun, please attach	a narrative of actions to date. If remedial eff	ediation immediately after discovery of a release. If remediation orts have been successfully completed or if the release occurred ase attach all information needed for closure evaluation.
regulations all operators are public health or the environ failed to adequately investig	e required to report and/or file certain release notifica- ment. The acceptance of a C-141 report by the OCI gate and remediate contamination that pose a threat	at of my knowledge and understand that pursuant to OCD rules and ations and perform corrective actions for releases which may endanger of does not relieve the operator of liability should their operations have to groundwater, surface water, human health or the environment. In ponsibility for compliance with any other federal, state, or local laws
Printed Name:	use BAKer	Title: Environmental Tech Se
Signature: Bruce		Date: 2-19-19
email: larry ba	.Ker @ apachecorp.com	Telephone: 432 - 631 - 6982
OCD Only Received by:	la Rotaniente 1	Date: 2/21/2019

State of New Mexico Oil Conservation Division

What is the shallowest depth to groundwater beneath the area affected by the release?

Did this release impact groundwater or surface water?

	Lie Control Control
Incident ID	
District RP	
Facility ID	
Application ID	

__ (ft bgs)

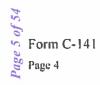
Site Assessment/Characterization

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

Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?							
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?							
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?							
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?							
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes No						
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No						
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No						
Are the lateral extents of the release overlying a subsurface mine?							
Are the lateral extents of the release overlying an unstable area such as karst geology?							
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No						
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☑ No						
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver- contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil						
Characterization Report Checklist: Each of the following items must be included in the report.							
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well. Field data Data table of soil contaminant concentration data Depth to water determination	lls.						
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information							
✓ Topographic/Aerial maps ✓ Laboratory data including chain of custody							

Received by OCD: 5/5/2020 9:29:05 AM

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



State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Bruce Baker	Title: Environmental Tech. SR.
Signature: Bruce Baher	Date: 5-7-19
email: larry baker @apachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by:	Date:

Received by OCD: 5/5/2020 9:29:05 AM State of New Mexico
Page 5 Oil Conservation Division

	Page 6 of 54
Incident ID	
District RP	
Facility ID	
Application ID	

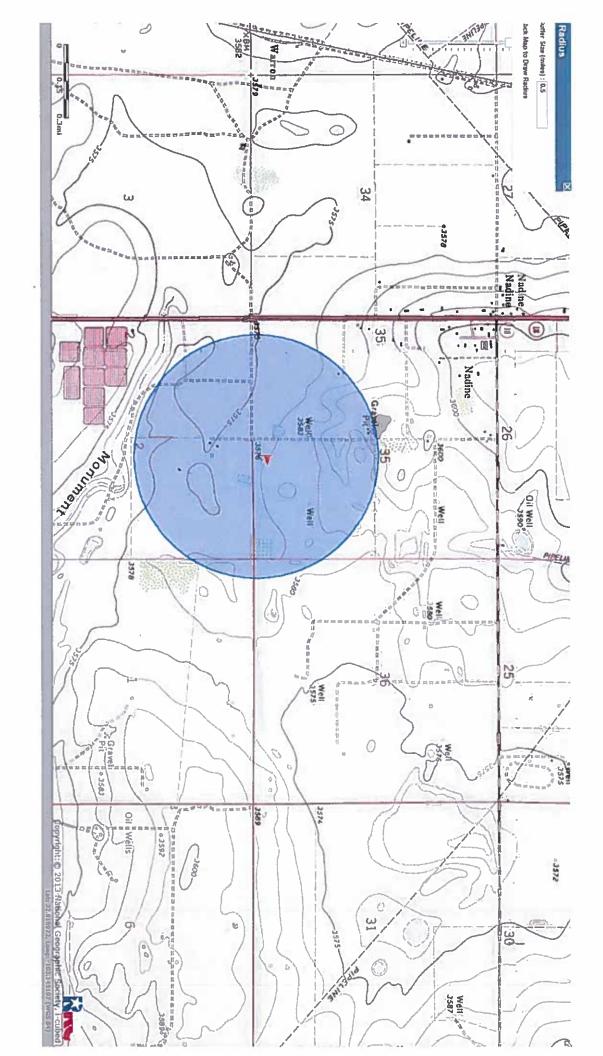
Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.					
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation point □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.1 □ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC					
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.					
Contamination must be in areas immediately under or around prefacility deconstruction.	oduction equipment where remediation could cause a major					
☑ Extents of contamination must be fully delineated.						
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name: Bruce Baker	Title: Environmental Tech SR.					
Signature: Bruce Baker	Date: 4/21/2020					
email: larry.baker@apachecorp.com Telephone: 432-631-6982						
OCD Only						
Received by:	Date:					
☐ Approved ☐ Approved with Attached Conditions of	Approval					
Signature:	Date:					



Figure 2 - Aerial Map

				I	BORING	RECORD	1											
	Start: 13:35							PI	D F	REA	DI	NG		S	AMP	LE		REMARKS
GEOLOGIC	DEPTH	Finish: 14:50				GRAPHIC LOG	Р	PPM X_1						2	PID READING	RECOVERY		BACKGROUND
UNIT		DESCRIPTION LITHOLOGIC		DESCRIPTION USCS	APH	2 4	4 6	8	10 1:	2 14	4 16	18	ABE.	ZEAI	OVE	ΤН	PID READING	
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		Well Sort		<u></u>	CL													1
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	3—		R, 6/6, Light	/ Red													5	
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	40—																	7
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	_		lar Caliche Ir Diameter	nclusions													30	1
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1.			DRILL DATE :			NUMBER :											ar	borough Drilling
Aarson & ssociates, I	nc.		01/15/20	020	B	B-1		RILL										





Werta Federal CTB

SP 1 (GPS: 32.610183 -103.117822)												
Depth	CL-	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO			
0	160	30.2	188	153	365	737	9850	44600	6620			
1'	16	26.4	180	121	239	566	6800	15800	2210			
3'		<0.050	0.466	1.61	2.89	4.97	40.7	477	165			
4'		<0.050	<0.050	1.36	1.6	2.96	115	1560	452			
5'		0.155	1.45	3.36	8.64	13.6	344	5400	1490			
5' 7"		<0.050	0.187	0.376	1.04	1.6	32.7	1450	458			
10'		<0.050	< 0.050	< 0.050	< 0.150	<0.300	<10.0	<10.0	<10.0			
15'		<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0			
20'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0			
25'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0			
			SP 2 (GPS: 326	10027 -103.	117863)						
Depth	CL-	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO			
0	80	21.6	199	185	384	790	10500	33600	5400			
1'	16	97.4	397	210	393	1100	14500	25900	3620			
-		-	SP 3 (GPS: 32.6	09925 -103.	117821)			-			
Depth	CL-	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO			
0	208	19.6	129	102	231	481	9750	50300	8700			
1'	48	58.2	190	101	204	553	8330	16800	2650			
2'		0.099	2.44	3.72	10.9	17.2	167	850	177			
3'		0.086	1.29	2.5	6.39	10.3	135	1190	267			
4'		0.381	4.65	5.15	12.4	22.6	268	2110	373			
			SP 4 (GPS: 32.6	10084 -103.	117776)						
Depth	CL-	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO			
0	3440	77.3	296	172	357	902	16300	43700	6090			
1'	1310	9.81	46.8	28.7	59.9	145	974	3000	314			
2'		0.082	0.556	0.949	3.17	4.76	53.6	249	45.8			
3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10	54.6	10.9			
4'		< 0.050	<0.050	< 0.050	<0.150	<0.300	<10	<10.0	<10.0			

			Н	lorizontal S	Surface Sam	ples			
Sample ID	CL-	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
HC1	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10.0	<10.0
HC2	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10.0	<10.0
HC3	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10.0	<10.0
HC4	144	<0.050	< 0.050	< 0.050	<0.150	<0.300	<10	<10.0	<10.0



February 21, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WERTA FED BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/15/19 15:25.

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.

Celeg & Keene

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

Applyand By: MC

Received:

02/15/2019

Sampling Date:

02/15/2019

Reported:

RTEY 80218

02/21/2019

Sampling Type:

Soil

Project Name:

WERTA FED BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

S-04

Project Location:

NONE GIVEN

Sample ID: SP 1 @ SURFACE (H900623-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	30.2	1.00	02/20/2019	ND	2.16	108	2.00	0.635	
Toluene*	188	1.00	02/20/2019	ND	2.20	110	2.00	1.11	
Ethylbenzene*	153	1.00	02/20/2019	ND	2.12	106	2.00	1.32	
Total Xylenes*	365	3.00	02/20/2019	ND	6.03	101	6.00	1.76	
Total BTEX	737	6.00	02/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	165	% 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	02/19/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	9850	100	02/18/2019	ND	177	88.7	200	11.3	
DRO >C10-C28*	44600	100	02/18/2019	ND	182	91.1	200	9.86	
EXT DRO >C28-C36	6620	100	02/18/2019	ND					
Surrogate: 1-Chlorooctane	471	% 41-142	?				· · · · · · · · · · · · · · · · · · ·		

Surrogate: 1-Chlorooctadecane

1040 %

37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liabelry and Damages. Cardinal's liabelity and chem's evolutive remedy for any cleim arraing, whether based in contract or tont, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other classe whilesperver shall be deemed waved 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 use, or loss of profits incurred by clean, its aubsidianes, affiliates or auccessors arising out of or related to the performance of the services hereunder by Cardinal, inglandless of whether such

Charle time



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

02/15/2019

Reported:

02/21/2019

Project Name: Project Number: **WERTA FED BATTERY**

Project Location:

NONE GIVEN

Sampling Date:

te: 02/15/2019

Sampling Type: Soil

Sampling Condition: Sample Received By: Soll

Cool & Intact

Tamara Oldaker

Sample ID: SP 1 @ 1' (H900623-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	26.4	1.00	02/20/2019	ND	2.16	108	2.00	0.635	
Toluene*	180	1.00	02/20/2019	ND	2.20	110	2.00	1.11	
Ethylbenzene*	121	1.00	02/20/2019	ND	2.12	106	2.00	1.32	
Total Xylenes*	239	3.00	02/20/2019	ND	6.03	101	6.00	1.76	
Total BTEX	566	6.00	02/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	155	% 73.3-12	19						
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	02/19/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6800	100	02/18/2019	ND	177	88.7	200	11.3	
DRO >C10-C28*	15800	100	02/18/2019	ND	182	91.1	200	9.86	
EXT DRO >C28-C36	2210	100	02/18/2019	ND					
Surrogate: 1-Chlorooctane	252	% 41-14:	?						
Surrogate: 1-Chlorooctadecane	404	% 37.6-14	17						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and chemic exclusive remedy for any claim arrang, whether based in contract or tort, shall be limited to the amount paid by clear for analyses. All claims, including those for negligence and any other cause whistoever shall be idented were understand the same with the same of the same

Colony L. time



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

02/15/2019

Reported:

02/21/2019

Project Name: Project Number: WERTA FED BATTERY

Project Location:

NONE GIVEN NONE GIVEN

Sampling Date:

02/15/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H900623-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	21.6	2.00	02/20/2019	ND	2.16	108	2.00	0.635	
Toluene*	199	2.00	02/20/2019	ND	2.20	110	2.00	1.11	
Ethylbenzene*	185	2,00	02/20/2019	ND	2.12	106	2.00	1.32	
Total Xylenes*	384	6.00	02/20/2019	ND	6.03	101	6.00	1.76	
Total BTEX	790	12.0	02/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	154	% 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	80.0	16.0	02/19/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	^r kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10500	100	02/18/2019	ND	177	88.7	200	11.3	
DRO >C10-C28*	33600	100	02/18/2019	ND	182	91.1	200	9.86	
EXT DRO >C28-C36	5400	100	02/18/2019	ND					
Surrogate: 1-Chlorooctane	423	% 41-142	2						
Surrogate: 1-Chlorooctadecane	777	% 37.6-14	7						

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any other Cause whatsoever shall be deemed wewed unless made in writing and received by Cardinal within thing [30] days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequencial damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its authority such

Colony it stream



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

02/15/2019

Reported:

02/21/2019

Project Name: Project Number: WERTA FED BATTERY

Project Location:

NONE GIVEN

Sampling Date:

02/15/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 2 @ 1' (H900623-04)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	97.4	2.00	02/20/2019	ND	2.16	108	2.00	0.635	
Toluene*	397	2.00	02/20/2019	ND	2.20	110	2.00	1.11	
Ethylbenzene*	210	2.00	02/20/2019	ND	2.12	106	2.00	1.32	
Total Xylenes*	393	6.00	02/20/2019	ND	6.03	101	6.00	1.76	
Total BTEX	1100	12.0	02/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	146	% 73 3-12	9						
Chloride, SM4S00Cl-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	02/19/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	14500	100	02/18/2019	ND	177	88.7	200	11.3	
DRO >C10-C28*	25900	100	02/18/2019	ND	182	91.1	200	9.86	
EXT DRO >C28-C36	3620	100	02/18/2019	ND					
Surrogate: 1-Chlorooctane	368	% 41-142	?		77112				
Surrogate: 1-Chlorooctadecane	612	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

02/15/2019

Reported: 02/21/2019

Project Name: **WERTA FED BATTERY** Project Number: NONE GIVEN

Project Location: NONE GIVEN Sampling Date:

02/15/2019

Sampling Type: Sampling Condition:

Soil Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 3 @ SURFACE (H900623-05)

Received:

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	19.6	1.00	02/19/2019	ND	1.92	96.0	2.00	4.30	
Toluene*	129	1.00	02/19/2019	ND	1.95	97.3	2.00	3.96	QM-07
Ethylbenzene*	102	1.00	02/19/2019	ND	1.97	98.7	2.00	3.53	QM-07
Total Xylenes*	231	3,00	02/19/2019	ND	5.78	96.3	6.00	3,39	QM-07
Total BTEX	481	6.00	02/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	121	% 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	02/19/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	9750	100	02/18/2019	ND	177	88.7	200	11.3	
DRO >C10-C28*	50300	100	02/18/2019	ND	182	91.1	200	9.86	
EXT DRO >C28-C36	8700	100	02/18/2019	ND					
Surrogate: 1-Chlorooctane	111	% 41-142	?				(0) 10 - 10		
Surrogate: 1-Chlorooctadecane	1230	% 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:

02/15/2019

Reported:

02/21/2019

Project Name: Project Number: WERTA FED BATTERY

Project Location:

NONE GIVEN

Sampling Date:

iipiirig bate.

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

02/15/2019

Cool & Illact

Tamara Oldaker

Sample ID: SP 3 @ 1' (H900623-06)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	58.2	1.00	02/20/2019	ND	1.92	96.0	2.00	4.30	
Toluene*	190	1.00	02/20/2019	ND	1.95	97.3	2.00	3.96	
Ethylbenzene*	101	1.00	02/20/2019	ND	1.97	98.7	2.00	3.53	
Total Xylenes*	204	3.00	02/20/2019	ND	5.78	96.3	6.00	3.39	
Total BTEX	553	6.00	02/20/2019	ND					
Surrogate 4-Bromofluorobenzene (PIL	106	% 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	02/19/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	8330	100	02/18/2019	ND	177	88.7	200	11.3	
DRO >C10-C28*	16800	100	02/18/2019	ND	182	91.1	200	9.86	
EXT DRO >C28-C36	2650	100	02/18/2019	ND					
Surrogate: 1-Chlorooctane	249	% 41-142	?						
Surrogate 1-Chlorooctadecane	421	% 37.6-14	17						

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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:

02/15/2019

Reported:

02/21/2019

Project Name: Project Number: WERTA FED BATTERY

Project Location:

NONE GIVEN

Sampling Date:

02/15/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 4 @ SURFACE (H900623-07)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	77.3	2.00	02/20/2019	ND	1.92	96.0	2.00	4.30	
Toluene*	296	2.00	02/20/2019	ND	1.95	97.3	2.00	3.96	
Ethylbenzene*	172	2.00	02/20/2019	ND	1.97	98.7	2.00	3.53	
Total Xylenes*	357	6.00	02/20/2019	ND	5.78	96.3	6.00	3.39	
Total BTEX	902	12.0	02/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 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	3440	16.0	02/19/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	16300	100	02/18/2019	ND	177	88.7	200	11.3	
DRO >C10-C28*	43700	100	02/18/2019	ND	182	91.1	200	9.86	
EXT DRO >C28-C36	6090	100	02/18/2019	ND					
Surrogate: 1-Chlorooctane	500	% 41-142	?						
Surrogate: 1-Chlorooctadecane	1040	% 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:

02/15/2019

Reported:

02/21/2019

Project Name: Project Number: WERTA FED BATTERY

Project Location:

NONE GIVEN

Sampling Date:

02/15/2019 Soil

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 4 @ 1' (H900623-08)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.81	1.00	02/20/2019	ND	1.92	96.0	2.00	4.30	
Toluene*	46.8	1.00	02/20/2019	ND	1.95	97.3	2.00	3.96	
Ethylbenzene*	28.7	1.00	02/20/2019	ND	1.97	98.7	2.00	3.53	
Total Xylenes*	59.9	3.00	02/20/2019	ND	5.78	96.3	6.00	3.39	
Total BTEX	145	6.00	02/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	101	% 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	1310	16.0	02/19/2019	ND	432	108	400	3.77	
TPH 8015M	mg.	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	974	50.0	02/18/2019	ND	177	88.7	200	11.3	
DRO >C10-C28*	3000	50.0	02/18/2019	ND	182	91.1	200	9.86	
EXT DRO >C28-C36	314	50.0	02/18/2019	ND					
Surrogate 1-Chlorooctane	72.6	% 41-14:	?						
Surrogate 1-Chlorooctadecane	108	% 37.6-14	7						

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: 12001		BILL TO	ANALYSIS REQUEST
Project Manager: Divolate Boy 18		P.O. #:	
Address:		Company:	
/ つりしら State: // //	Zip: YXXX	Attn:	
Phone #: Fax #:		Address:	
Project #: Project Owner:		City:	
Project Name:		State: Zip:	
Project Location: West Land Post	202	Phone #:	
Sampler Name: / ilest () 110/5/20	_	Fax #:	
FOR IAB USE ONLY	MATRIX	PRESERV SAMPLING	7
Lab I.D. Sample I.D.		BASE COOL	X+ TPI
HODE 3 195 C. D	GRO WAS SOI OIL		
4 01 45 2	5	14:0	/ / /
3 SP A. Suchucz	- - 7	1) 1 1 2:43	
4 50 201	7	9:47	
5 Sp & Suchald		1 2-49	
6 58 2 000	3 S	1 1 0.62	/ / /
7 SU USuduci	コーフー	1 V 2:53	
1 to h ds 18	-	1 23:28 1 D	
PLEASE NOTE: Listelly and Chringos. Cardina's listelly and clear's arcticates remody fee any cleam steing whether based on contract or for, shell be introduced to the arrows paid by the cheel for the steinby-set. All delains including those for negligence and any other cersuse wastewer shall be deemed wewed unless made in writing and received by Cardinal be although within 30 days after completed in the applicable service. In no event shall Cardinal be labele for included an consequential damages, including, whole finds on, business interruptions, loss of uses, or loss of profits incurred by Elect. its subsidiaries,	y clem arising whether based in contract o verned waived unless made in writing and i without limitation, business interruptions, to	ir bort, shalt be Smised to the amount peld by the oberd for the received by Cardinal within 30 days after completion of the I as of use, or less of profits incurred by client, its submidiaries	policable
Selection in the Second Science Control of many to a secondaria or consequential control of a second or second	advoce an expect, occurred the repeated, at	as of one; or one or proof well and by them, to supply them.	

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Relinquished By:

Time: 125

Received By:

2-15-19

Time:

CHECKED BY: (Initials) 4

Ema, / Rusults



April 24, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WERTA 001

Enclosed are the results of analyses for samples received by the laboratory on 04/16/19 15:34.

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 accredited 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.

Celeg 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:

04/16/2019

Sampling Date:

04/16/2019

Reported:

04/24/2019

Sampling Type:

Soil

Project Name:

WERTA 001

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SP 1 @ 2' (H901392-01)

BTEX 80218	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.32	0.500	04/19/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	41.7	0.500	04/19/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	39.2	0.500	04/19/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	94.9	1.50	04/19/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	181	3.00	04/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	141 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2710	50.0	04/18/2019	ND	197	98,6	200	0.976	
DRO >C10-C28*	9050	50.0	04/18/2019	ND	188	94.2	200	0.00213	
EXT DRO >C28-C36	1900	50.0	04/18/2019	ND					
Surrogate: 1-Chlorooctane	202 9	6 41-142	?		20,71				
Surrogate 1-Chlorooctadecane	3169	6 37.6-14	7						

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Chazi time



Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 04/16/2019 04/24/2019

010

Project Name: Project Number:

WERTA 001 NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

04/16/2019

Jodi Henson

Sample ID: SP 1 @ 3' (H901392-02)

BTEX 80218	mg/	/kg	Analyze	d By: MS					\$-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	04/19/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	0.466	0.050	04/19/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	1.61	0.050	04/19/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	2.89	0.150	04/19/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	4.97	0.300	04/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	183	% 73.3-12	9						
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	40.7	10.0	04/18/2019	ND	197	98.6	200	0.976	
DRO >C10-C28*	477	10.0	04/18/2019	ND	188	94.2	200	0.00213	
EXT DRO >C28-C36	165	10.0	04/18/2019	ND					
Surrogate: 1-Chlorooctane	103	% 41-142	***************************************	de la colle e de la contra coldullita ad esta da de contra de la contra de la contra de la contra de la contra					
Surrogate: 1-Chlorooctadecane	106	% 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: Reported: 04/16/2019

04/24/2019 WERTA 001

Project Name: Project Number: Project Location:

NONE GIVEN

Sampling Date:

04/16/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 1 @ 4' (H901392-03)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/23/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	<0.050	0.050	04/23/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	1.36	0.050	04/23/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	1.60	0.150	04/23/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	2.96	0.300	04/23/2019	ND					
Surrogate 4-Bromofluorobenzene (PIL	78.5 9	73.3-12	9						
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	115	10.0	04/18/2019	ND	197	98.6	200	0.976	
DRO >C10-C28*	1560	10.0	04/18/2019	ND	188	94.2	200	0.00213	
EXT DRO >C28-C36	452	10.0	04/18/2019	ND					
Surrogate: 1-Chlorooctane	119 3	6 41-143	?						
Surrogate: 1-Chlorooctadecane	1319	6 37.6-14	7						

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Analytical Results For:

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

Fax To:

41-142

37.6-147

(575) 393-2432

Received:

04/16/2019

Sampling Date:

04/16/2019

Reported:

04/24/2019

Sampling Type:

Soil

Project Name:

WERTA 001 NONE GIVEN Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SP 1 @ 5' (H901392-04)

BTEX 8021B

mg/kg

Analyzed By: M5

BIEX 9051B	mg,	кg	Anaiyze	a by: M5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.155	0.050	04/24/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	1.45	0.050	04/24/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	3.36	0.050	04/24/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	8.64	0.150	04/24/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	13.6	0.300	04/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	83.4	% 73.3-12	9						
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	344	50.0	04/18/2019	ND	197	98.6	200	0.976	
DRO >C10-C28*	5400	50.0	04/18/2019	ND	188	94.2	200	0.00213	
EXT DRO >C28-C36	1490	50.0	04/18/2019	ND					

Surrogate 1-Chlorooctane 184 %
Surrogate 1-Chlorooctadecane 249 %

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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: Reported: 04/16/2019 04/24/2019

04/24/2019 WERTA 001

Project Name: Project Number: Project Location:

NONE GIVEN

Sampling Date:

04/16/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 1 @ 5'7 (H901392-05)

BTEX 802	11B

mg/k	į
------	---

129 %

37.6-147

Analyzed By: MS

1									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	04/19/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	0.187	0.050	04/19/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	0.376	0.050	04/19/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	1.04	0.150	04/19/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	1.60	0.300	04/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	129	% 73.3-12	9			4 - 7 - 1 - 8 Talle 6 - January 6 - 4 - 4 - 4	-1-2-1-2-1-2-1	144-144-1-1-144	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	32.7	10.0	04/18/2019	ND	197	98.6	200	0.976	
DRO >C10-C28*	1450	10.0	04/18/2019	ND	188	94.2	200	0.00213	
EXT DRO >C28-C36	458	10.0	04/18/2019	ND					
Surrogate 1-Chlorooctane	106	% 41-142							

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Surrogate: 1-Chlorooctadecane

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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: Reported:

Project Name:

04/16/2019

04/24/2019 WERTA 001

Project Number: Project Location: NONE GIVEN NONE GIVEN

Sampling Date:

04/16/2019

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

Sample ID: SP 3 @ 2' (H901392-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.099	0.050	04/24/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	2.44	0.050	04/24/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	3.72	0.050	04/24/2019	ND	1.86	93.1	2.00	3,32	
Total Xylenes*	10.9	0.150	04/24/2019	ND	5.28	88.1	6.00	3,58	
Total BTEX	17.2	0.300	04/24/2019	ND					
Surrogate 4-Bromofluorobenzene (PIE	201 9	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	167	10.0	04/18/2019	ND	197	98.6	200	0.976	
DRO >C10-C28*	850	10.0	04/18/2019	ND	188	94.2	200	0.00213	
EXT DRO >C28-C36	177	10.0	04/18/2019	ND					
Surrogate: 1-Chlorooctane	131 9	6 41-142		to the first of the formal to the file has been released to the file.					
Surrogate: 1-Chlorooctadecane	1199	6 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

04/16/2019

Sampling Date:

04/16/2019

Reported:

04/24/2019 WERTA 001

Sampling Type:

Soil Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SP 3 @ 3' (H901392-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.086	0.050	04/19/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	1.29	0.050	04/19/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	2.50	0.050	04/19/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	6.39	0.150	04/19/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	10.3	0.300	04/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	162 %	6 73 3-12	9						
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	135	10.0	04/18/2019	ND	197	98.6	200	0.976	
DRO >C10-C28*	1190	10.0	04/18/2019	ND	188	94.2	200	0.00213	
EXT DRO >C28-C36	267	10.0	04/18/2019	ND					
Surrogate: 1-Chlorooctane	129 9	6 41-142	?						
Surrogate: 1-Chlorooctadecane	126 9	37.6-14	17						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

04/16/2019

Sampling Date:

04/16/2019

Reported:

04/24/2019

Sampling Type:

Soil

Project Name:

WERTA 001 NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SP 3 @ 4' (H901392-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.381	0.050	04/24/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	4.65	0.050	04/24/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	5.15	0.050	04/24/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	12.4	0.150	04/24/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	22.6	0.300	04/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	1649	6 73 3-12	9						
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*	268	10.0	04/19/2019	ND	190	94.9	200	2.00	QM-07
DRO >C10-C28*	2110	10.0	04/19/2019	ND	197	98.4	200	4.28	QM-07
EXT DRO >C28-C36	373	10.0	04/19/2019	ND					
Surrogate: 1-Chlorooctane	145 9	6 41-142	?						
Surrogate: 1-Chlorooctadecane	155 9	6 37.6-14	7:						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

04/16/2019

Sampling Date:

04/16/2019

Reported:

04/24/2019

Sampling Type:

Soil

Project Name:

WERTA 001 NONE GIVEN Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SP 4 @ 2' (H901392-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.082	0.050	04/19/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	0.556	0.050	04/19/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	0.949	0.050	04/19/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	3.17	0.150	04/19/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	4.76	0.300	04/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	135 9	6 73.3-12	19						
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	53.6	10.0	04/19/2019	ND	190	94.9	200	2.00	
DRO >C10-C28*	249	10.0	04/19/2019	ND	197	98.4	200	4.28	
EXT DRO >C28-C36	45.8	10.0	04/19/2019	ND					
Surrogate: 1-Chlorooctane	99.5	% 41-142	?					<u>,</u>	
Surrogate: 1-Chlorooctadecane	99.5	% 37.6-14	17						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

04/16/2019 04/24/2019 Sampling Date:

04/16/2019

Reported:

Sampling Type:

Soil

Project Name:

WERTA 001 NONE GIVEN Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SP 4 @ 3' (H901392-10)

BTEX	8021B

mc	ı/	k

87.6%

37.6-147

Analyzed By: MS

		_							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2019	МD	1.81	90.3	2.00	0.550	
Toluene*	<0.050	0.050	04/19/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/19/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	< 0.150	0.150	04/19/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	<0.300	0.300	04/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.4	% 73.3-12	9	P (m 16 m fer sich 1888) im Prilimit um bersellt in um bersellt im Stebe					
TPH 8015M		/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2019	ND	190	94.9	200	2.00	
DRO >C10-C28*	54.6	10.0	04/19/2019	ND	197	98.4	200	4.28	
EXT DRO >C28-C36	10.9	10,0	04/19/2019	ND					
Surrogate: 1-Chlorooctane	86.7	% 41-142	?						

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Surrogate: 1-Chlorooctadecane

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

04/16/2019 04/24/2019 Sampling Date: Sampling Type: 04/16/2019

Soil

Reported:

WERTA 001

Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SP 4 @ 4' (H901392-11)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	04/19/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	<0.050	0.050	04/19/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/19/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	<0.150	0.150	04/19/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	<0.300	0.300	04/19/2019	ND					

Surrogate 4-Bromofluorobenzene (PIC

98.0 %

73:3-129

TPH 8015M mg/kg		Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2019	ND	190	94.9	200	2.00	
DRO >C10-C28*	<10.0	10.0	04/19/2019	ND	197	98.4	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	04/19/2019	ND					

Surrogate: 1-Chlorooctane

79.3 %

41-142

Surrogate: 1-Chlorooctadecane

80.0 %

37.6-147

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Notes and Definitions

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

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Chazi time

Relinquished By:

Time: 3:34

Fax Result: REMARKS:

☐ Yes

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 14 of 15

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

Company Name:	APACHE CHANGETH		BILL TO	ANALYSIS REQUEST
Project Manager:	BALLE BAKER		P.O. #:	
Address:			Company:	
City:	State:	Zip:	Attn:	
Phone #:	Fax		Address:	
Project #:	Project Owner:		City:	
Project Name:			State: Zip:	
Project Location:	WERTH OU!		Phone #:	
Sampler Name:	JEFF Rywin		FBX #:	
POR LAS DEL PAL POR		MATRIX	PRESERV. SAMPLING	
Lab I.D.	Sample I.D.	PRAB OR (C)OMP CONTAINERS ROUNDWATER ASTEWATER DIL L UDGE	HER :: ID/BASE: E / COOL HER :	BTEX Ext. TP
-	50100 J,			
	5620 3'		1 11:20	
3	14 (0) 41		12:06	
ر ا	11 0 51		1:58	
3 5	P2 0 5'7		7:54	
<i>(o)</i> ≤	30 21		620	
<u> </u>	P30 3'		W:/W	
8	430 4'		12:3v	
S	P(0) 4		52:01	
3 01	P4 131		With Whichs VIII	
PLEASE WITH STATE	Demages, Chemat's baidly and clearly exchange remark for any chain or	: 11	ng whether timed in contract or last, what he londed to the archael pant by the clear for the	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: IPACHE CKINGTON	BILL TO	ANALYSIS REQUEST
Bruse	P.O. #:	
	Company:	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	
ame:	State: Zip:	
Project Location: WELTA 001	Phone #:	
Conner.	Tax #:	
	MATRIX PRESERV SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ACID/BASE ICE / COOL OTHER	BTEX EXT. TH
11 SP404,		-61.0
P. (E.A.RE (NOTE: Liability and Chermigns, Candinal's basiny and clears extranse serves in analyses, All claims including those for megligations and any above copies windowners that its worky. In me wood should Candinal to bashs he incidented at consequented duringues, technic	e description of the property	to completion of the applicable
wheeld by the perferences o	Received By:	Phone Result: Yes No Add'I Phone #: Fax Result: Yes No Add'I Fax #:
Relinquished by: Date:	Pacelved By:	REMARKS:
Delivered By: (Circle One)	- 10	
Sampler - UPS - Bus - Other: 4.50/#47	TAN TANDEN CO.	

Page 15 of 15



March 11, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WERTA FEDERAL

Enclosed are the results of analyses for samples received by the laboratory on 03/09/20 11:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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: 03/09/2020

Reported: 03/11/2020
Project Name: WERTA FEDERAL
Project Number: NONE GIVEN

ma/ka

Project Location: NONE GIVEN

Sampling Date: 03/09/2020

Sampling Type: Soil

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

Sample ID: HC 1 (H000736-01)

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	03/10/2020	ND	2.00	99.9	2.00	0.430	
Toluene*	<0.050	0.050	03/10/2020	ND	2.02	101	2.00	0.251	
Ethylbenzene*	<0.050	0.050	03/10/2020	ND	2.03	102	2.00	0.353	
Total Xylenes*	<0.150	0.150	03/10/2020	ND	5.87	97.9	6.00	0.536	
Total BTEX	<0.300	0.300	03/10/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 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	48.0	16.0	03/09/2020	ND	432	108	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	03/10/2020	ND	198	99.1	200	6.26	
DRO >C10-C28*	<10.0	10.0	03/10/2020	ND	202	101	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	03/10/2020	ND					
Surrogate: 1-Chlorooctane	90.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.6	% 42.2-15	6						

Applymed By MC

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Received:

BTEX 8021B

03/09/2020

Sampling Date:

03/09/2020

Soil

Reported:

03/11/2020

Sampling Type:

Project Name: Project Number: WERTA FEDERAL NONE GIVEN

mg/kg

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

Project Location:

NONE GIVEN

Sample ID: HC 2 (H000736-02)

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2020	ND	2.00	99.9	2.00	0.430	
Toluene*	<0.050	0.050	03/10/2020	ND	2.02	101	2.00	0.251	
Ethylbenzene*	<0.050	0.050	03/10/2020	ND	2.03	102	2.00	0.353	
Total Xylenes*	<0.150	0.150	03/10/2020	ND	5.87	97.9	6.00	0.536	
Total BTEX	<0.300	0.300	03/10/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 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	96.0	16.0	03/09/2020	ND	432	108	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	03/10/2020	ND	198	99.1	200	6.26	
DRO >C10-C28*	<10.0	10.0	03/10/2020	ND	202	101	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	03/10/2020	ND					
Surrogate: 1-Chlorooctane	85.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.9	% 42.2-15	6						

Analyzed By: MS

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Fax To: (575) 393-2432

Received: 03/09/2020 Reported: 03/11/2020

Reported: 03/11/2020
Project Name: WERTA FEDERAL
Project Number: NONE GIVEN
Project Location: NONE GIVEN

ma/ka

Sampling Date: 03/09/2020

Sampling Type: Soil

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

Sample ID: HC 3 (H000736-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2020	ND	1.79	89.4	2.00	10.3	
Toluene*	<0.050	0.050	03/10/2020	ND	1.78	89.0	2.00	10.2	
Ethylbenzene*	<0.050	0.050	03/10/2020	ND	1.81	90.5	2.00	10.2	
Total Xylenes*	<0.150	0.150	03/10/2020	ND	5.30	88.4	6.00	10.4	
Total BTEX	<0.300	0.300	03/10/2020	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	32.0	16.0	03/09/2020	ND	432	108	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	03/10/2020	ND	198	99.1	200	6.26	
DRO >C10-C28*	<10.0	10.0	03/10/2020	ND	202	101	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	03/10/2020	ND					
Surrogate: 1-Chlorooctane	86.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.4	% 42.2-15	6						

Analyzed By: MC

Cardinal Laboratories *=Accredited Analyte

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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:

03/09/2020

Sampling Date:

03/09/2020

Reported:

03/11/2020

Sampling Type:

Soil

Project Name: Project Number: WERTA FEDERAL NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

RTFY 8021R

NONE GIVEN

ma/ka

Sample ID: HC 4 (H000736-04)

BIEX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2020	ND	1.79	89.4	2.00	10.3	
Toluene*	<0.050	0.050	03/10/2020	ND	1.78	89.0	2.00	10.2	
Ethylbenzene*	<0.050	0.050	03/10/2020	ND	1.81	90.5	2.00	10.2	
Total Xylenes*	<0.150	0.150	03/10/2020	ND	5.30	88.4	6.00	10.4	
Total BTEX	<0.300	0.300	03/10/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 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	144	16.0	03/09/2020	ND	432	108	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	03/10/2020	ND	198	99.1	200	6.26	
DRO >C10-C28*	<10.0	10.0	03/10/2020	ND	202	101	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	03/10/2020	ND					
Surrogate: 1-Chlorooctane	90.2	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	94.5	% 42.2-15	6						

Analyzed By: MC

Cardinal Laboratories

*=Accredited Analyte

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

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

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

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

Observed Temp. °C
Corrected Temp. °C

Sample Condition
Cool Intact
Pes Fes
No No

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Time:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Wack Ciporation		BILL TO	ANALYSIS REQUEST	
Project Manager:		P.O. #:		
Address:		Company:		
City: State:	Zip:	Attn:		
Phone #: Fax #:		Address:		
Project #: Project Owner:		City:		
Project Name: Welfa FEDERAL		State: Zip:		
Project Location: Wether FEDERAL		Phone #:		
Sampler Name: J. Muson		Fax #:		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	CL BIEN EXT. TPH	
1401		3/8/60	033 111	
2462	C		1035 1 1	
JAC 3	0		1 1 C-Pal	
4 1404	6	3/5/20	1025 V V V	
"LEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim a using whether based in contract or but, 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 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.	 -any claim arising whether based in contract of e deemed waived unless made in writing and it ing without limitation, business interruptions, lost Cardinal, regardless of whether such claim is 	r tort, shall be limited to the amount paid received by Cardinal within 30 days after ss of use, or loss of profits incurred by clin bassed upon any of the above stated reas	y the client for the policable completion of the applicable and, its subsidiaries, and or otherwise.	
Relinquished By: Date: 3/4/20 Time: 1/33	Received By:	Maller	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	
shed By: Date:	Received By:	The same of	REMARKS:	

70

Thermometer ID #97 Correction Factor + 0.4 °C

[†] Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



January 20, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WERTA 001

Enclosed are the results of analyses for samples received by the laboratory on 01/15/20 15:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 Page 14 (10.14)

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: 01/15/2020

Reported: 01/20/2020 Project Name: WERTA 001

Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date:

01/15/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)
Tamara Oldaker

Sample ID: SP 1 @ 10' (H000141-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2020	ND	2.07	104	2.00	10.5	
Toluene*	<0.050	0.050	01/17/2020	ND	2.08	104	2.00	10.8	
Ethylbenzene*	<0.050	0.050	01/17/2020	ND	2.11	106	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/17/2020	ND	6.19	103	6.00	10.9	
Total BTEX	<0.300	0.300	01/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.3-12	9						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	<10.0	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	01/18/2020	ND					
Surrogate: 1-Chlorooctane	89.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.1	% 37.6-14	7						

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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: 01/15/2020

Reported: 01/20/2020
Project Name: WERTA 001
Project Number: NONE GIVEN

Project Location: NONE GIVEN

Sampling Date: 01/15/2020

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 15' (H000141-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2020	ND	2.07	104	2.00	10.5	
Toluene*	<0.050	0.050	01/17/2020	ND	2.08	104	2.00	10.8	
Ethylbenzene*	<0.050	0.050	01/17/2020	ND	2.11	106	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/17/2020	ND	6.19	103	6.00	10.9	
Total BTEX	<0.300	0.300	01/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	<10.0	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	01/18/2020	ND					
Surrogate: 1-Chlorooctane	99.5	% 41-142	!						
Surrogate: 1-Chlorooctadecane	101 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: 01/15/2020

Reported: 01/20/2020
Project Name: WERTA 001
Project Number: NONE GIVEN

Project Location: NONE GIVEN

Sampling Date: 01/15/2020

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 20' (H000141-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2020	ND	2.07	104	2.00	10.5	
Toluene*	<0.050	0.050	01/17/2020	ND	2.08	104	2.00	10.8	
Ethylbenzene*	<0.050	0.050	01/17/2020	ND	2.11	106	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/17/2020	ND	6.19	103	6.00	10.9	
Total BTEX	<0.300	0.300	01/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	<10.0	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	01/18/2020	ND					
Surrogate: 1-Chlorooctane	98.2 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	100 %	6 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Received: 01/15/2020

Reported: 01/20/2020
Project Name: WERTA 001
Project Number: NONE GIVEN

Project Location: NONE GIVEN

Sampling Date: 01/15/2020

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 25' (H000141-04)

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	01/17/2020	ND	2.07	104	2.00	10.5	
Toluene*	<0.050	0.050	01/17/2020	ND	2.08	104	2.00	10.8	
Ethylbenzene*	< 0.050	0.050	01/17/2020	ND	2.11	106	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/17/2020	ND	6.19	103	6.00	10.9	
Total BTEX	<0.300	0.300	01/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	<10.0	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	01/18/2020	ND					
Surrogate: 1-Chlorooctane	96.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	99.1	% 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

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

company warne. A sacre Company	D/L-70	ANALYSIS REQUEST
20 de	P.O. #:	- 1
Address:	Company:	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	city:	
Project Name: Westa OOI	State: Zip:	
Project Location: Werke #001	Phone #:	
Sampler Name: JEFF From	Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING	<u> </u>
Lab I.D. Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BIEX EXT. TPH
10/00 145		
25/10/15'		
100 0 TOS N		
Š	11.100	
LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for a	LEASE 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	lient for the

Relinquished By: 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 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 substidiaries, affiliaries 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. Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) LOS Corrected Temp. °C Observed Temp. °C Time: 1551 Date: Date: Time: 1/15/20 7.8 Received By: Received By: Sample Condition
Cool Intact
Yes 7 Yes
No No 46 CHECKED BY: (Initials) Turnaround Times All Results are emailed. Please provide Email address: Thermometer ID #97 Correction Factor + 0.4 °C REMARKS: Verbal Result: ☐ Yes Standard Rush □ No

Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No No Corrected Temp. °C



