

DAVID FEATHER
ENVIRONMENTAL SUPERVISOR
DIRECT: (432) 818-1615
E-MAIL; DAVID.FEATHER@APACHECORP.COM

Released to Imaging: 7/12/2021 1:18:46 PM

October 25, 2019

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

RE: 1RP-2304 Turner Battery

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 deferment request for the release occurring October 1, 2009. Apache is respectfully submitting the deferment request for your approval. Unless further information is requested by NMOCD, Apache Corporation considers this release deferred.

If there are any questions, please feel free to contact me by telephone at 432-818-1615 or by e-mail at David.Feather@ApacheCorp.com.

Sincerely,

David Feather

Environmental Supervisor

Apache Corporation - Permian Basin Region

Attachment: Deferment Report Dated October 23, 2019

Trinity Oilfield Services & Rentals, LLC





Company: Apache Corporation Address: 2530 W. Marland St., Hobbs, NM 88240 Telephone #: (575) 393-7106
Site Name: Turner Battery NMOCD Reference#: 1RP-2304
Surface Owner: Deck Estate Mineral Owner: State of New Mexico
Unit Letter: K (NE/SW) Section: 22 Township: 218 Range: 37E County: Lea GPS Coordinates: 32.460968 N -103.151845 W
Date/Time of Release: 10/1/2009 Type of Release: Crude Oil Produced Water
Volume(s) Released: 130 bbls Produced Water & 50 bbls Crude Oil Volume(s) Recovered: 125 bbls Produced Water & 45 bbls Crude Oil
Closure Criteria for Impacted Soil (mg/kg; See Appendix C, "Closure Criteria Justification"):
Benzene: 10 BTEX: 50 GRO+DRO: 1,000 TPH: ☐ 100 Chloride: ☐ 600
☑ 2,500
Background Information:
On October 1, 2009, Apache Corporation discovered a release at the Turner Battery. The water leg on a gun barrel tank became clogged, causing the tank to overflow, and resulting in the release of approximately 130 barrels (bbls) of produced water and 50 bbls of crude oil. The spill was confined to the earthern containment berm surrounding the tank battery. During initial response activities, the obstruction in the water leg was removed, and a vacuum truck was utilized to recover approximately 125 bbls of produced water and 45 bbls of crude oil.
The release was immediately reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs District Office. The NMOCD "Release Notification & Corrective Action" form (C-141) is provided as Appendix A. A "Site Location Map" is provided as Figure 1.
At some point following the release, additional remediation of the affected area took place. However, no extant documentation or work records of such activities could be located. In addition, no records or analytical results from soil sampling could be obtained from Cardinal Laboratories in Hobbs, New Mexico, as the Environmental Protection Agency's (EPA) mandated time period for record retention has elapsed.
On July 25, 2019, Apache requested Trinity Oilfield Services & Rentals, LLC (Trinity), assume remediation activities at the release site.

Summary of Field Activities:

On August 2, 2019, representatives of Trinity conducted a sampling event to assess the current state of the site. A hand auger was utilized to advance a series of 4 boreholes (SP-1 through SP-4) in the inferred affected area inside the containment area to investigate the extent of impacted soil. The auger holes were advanced to total depths of 2 feet below ground surface (bgs). Soil samples were collected at ground surface and 1-foot vertical intervals, and confirmation samples were submitted to Cardinal Laboratories for analysis of chloride, total petroleum hydrocarbons (TPH), and benzene, toluene, ethylbenzene, and total xylene (BTEX) concentrations using EPA Methods 4500-CI B, SW 846-8015 Mod, and SW 846-8021B, respectively.

Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory method detection limit (MDL) in all submitted soil samples. Sum total concentrations of Gas Range Organics and Diesel Range Organics (GRO + DRO) ranged from less than the laboratory MDL in samples SP-3 @ Surface, SP-3 @ 1', and SP-3 @ 2' to 8,060 mg/kg in sample SP-2 @ Surface. TPH concentrations ranged from less than the laboratory MDL in samples SP-3 @ Surface, SP-3 @ 1', and SP-3 @ 2' to 12,590 mg/kg in sample SP-2 @ Surface. Chloride concentrations ranged from less than the laboratory MDL in samples SP-1 @ 2', SP-2 @ Surface, SP-2 @ 1', and SP-4 @ 2' to 80.0 mg/kg in sample SP-3 @ 1'.

Based on these laboratory analytical results, delineation of the areas represented by auger holes SP-1, SP-2, and SP-3

Trinity Oilfield Services & Rentals, LLC





Summary of Field Activities (cont.)

had been achieved. However, additional vertical delineation was required in the area represented by auger hole SP-4.

On August 16, 2019, auger hole SP-4 was re-entered and further advanced to a total depth of 7 feet bgs. Soil samples were collected at 1-foot vertical intervals, and confirmation samples were submitted to Cardinal Laboratories for analysis of TPH and BTEX concentrations. Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. GRO + DRO concentrations ranged from less than the laboratory MDL in sample SP-4 @ 7' to 568 mg/kg in sample SP-4 @ 5'. TPH concentrations ranged from less than the laboratory MDL in sample SP-4 @ 7' to 757 mg/kg in sample SP-4 @ 5'.

Based on these laboratory analytical results, vertical delineation of the area represented by auger hole SP-4 had been achieved.

Locations of the auger holes are depicted in Figure 2, "Sample Location Map", and Figure 3, "Sample Location Map (Historical Aerial)". Current photographs of the release site are provided in Appendix B. Laboratory analytical results are summarized in Table 1, and an analytical report is provided in Appendix D.

Deferment Request:

Soil samples collected from the inferred impacted area were analyzed by an NMOCD-approved laboratory, and chloride and BTEX constituent concentrations were below the Closure Criteria listed in Table I of Section 19.15.29.12 of the New Mexico Administrative Code (NMAC) for a site where depth to groundwater is 51-100 feet bgs (see Appendix C, "Closure Criteria Justification", for more information).

The GRO+DRO and TPH contamination in the areas represented by auger holes SP-2 and SP-4 has been vertically delineated. Based on the shallow depth of impact (i.e., ground surface to 2 feet bgs), the contamination "does not cause an imminent risk to human health, the environment, or ground water." Pursuant to Section 19.15.29.12.C(2) NMAC, since the impacted area is immediately around production equipment, Apache hereby requests approval to defer further remediation until such time that the tank battery is decommissioned and removed.

Enclosures:

Figure 1: Site Location Map

Figure 2: Sample Location Map

Figure 3: Sample Location Map (Historical Aerial)

Table 1: Concentrations of Benzene, BTEX, TPH & Chloride in Soil Appendix A: Release Notification & Corrective Action (Form C-141)

Appendix B: Photographs

Appendix C: Closure Criteria Justification Appendix D: Laboratory Analytical Results 10/23/2019
Ben J. Arguijo
Project Manager

Released to Imaging: 7/12/2021 1:18:46 PM

Figures

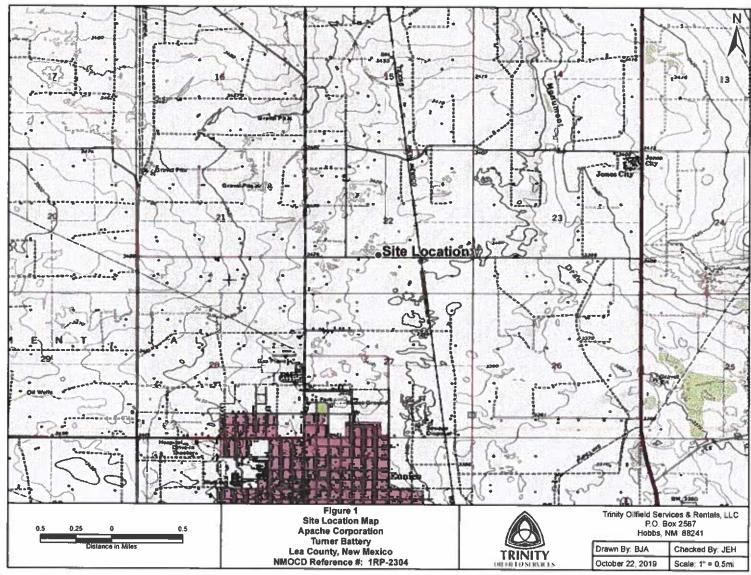






TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

APACHE CORPORATION TURNER BATTERY LEA COUNTY, NEW MEXICO NMOCD REFERENCE #: 1RP-2304



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	1			EPA S	W-846 Metho	1 8021B			EPA SW	-846 Meth	od 8015M		4500-CI B
		DEPTH	SAMPLE DATE	SOIL STATUS	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	GRO C6-C12 (mg/kg)	DRO C12-C28 (mg/kg)	GRO+ DRO (mg/kg)	MRO C28-C35 (mg/kg)	TPH C6-C35 (mg/kg)
NMOC	D Closure L	imits (mg/kg)		10	NE	NE	NE	50	NE	NE	1,000	NE	2,500	10,000
20.4.00.0	MERCHANIA.	i a sa s	2012-010	-0.05A	Side property	2.052	0.100		1000	100		UIII MEN	000000	de la
SP-1 @ Surface	Surface 1'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.B	16.8	13.1	29.9	320
SP-1 @ 1'		8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	66.5	66.5	68.3	135	32.0
SP-1 @ 2'	2'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	1232	232	223	455	<16.0
SP-2 @ Surface	Surface	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	8,060	8,060	4,530	12,590	<16.0
SP-2 @ 1'	1'	8/2/2019	In-Situ	< 0.050	<0.050	< 0.050	< 0.150	< 0.300	<10.0	555	555	470	1,025	<16.0
SP-2 @ 2'	2'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	360	360	341	701	16.0
SP-3 @ Surface	Surface	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SP-3 @ 1'	1'	8/2/2019	In-Situ	< 0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SP-3 @ 2'	2'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SP-4 @ Surface	Surface	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	216	216	173	389	16.0
SP-4 @ 1'	1'	8/2/2019	In-Situ	<0.050	<0.050	< 0.050	<0.150	< 0.300	<50.0	5,180	5,180	2,700	7,880	16.0
SP-4 (0) 2'	2'	8/2/2019	In-Situ	< 0.050	<0.050	< 0.050	<0.150	<0.300	<50.0	2,440	2,440	1,160	3,600	<16.0
SP-4 @ 3'	3'	8/16/2019	In-Situ	< 0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	195	195	167	362	
SP-4 @ 4'	4'	8/16/2019	In-Situ	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	27.0	27.0	21.9	48.9	-
SP-4 @ 5'	5'	8/16/2019	In-Situ	< 0.050	<0.050	< 0.050	<0.150	< 0.300	<50.0	568	568	189	757	21
SP-4 @ 6'	6'	8/16/2019	In-Situ	< 0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	64.6	64.6	52.9	118	W
SP-4 @ 7'	7'	8/16/2019	In-Situ	< 0.050	<0.050	< 0.050	< 0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	-

NE = Not Established
-= Not Analyzed
Concentrations in BOLD exceed the NMOCD Closure Limit

Page 1 of 1

Released to Imaging: 7/12/2021 1:18:46 PM

Appendices

Released to Imaging: 7/12/2021 1:18:46 PM

Appendix A Release Notification & Corrective Action (Form C-141)

District I
1625 N. French Dr., Hobbs, NM 88220 EPV State of New Mexico
District II
1301 W. Grand Avenue, Artesia, NM 862 0 0 9 20119
District III
1000 Rio Brazos Road, Aztec, NM 87505

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

Santa Fe, NM 87505

Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action											
OPERATOR Initial Report	Final Report										
Name of Company Apache Corporation Contact Natalie Gladden											
	Telephone No. 575-390-4186										
	Facility Type Battery										
Surface Owner Deck Estate Mineral Owner State Lease No. 30-025-37203											
LOCATION OF RELEASE											
Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County											
K 22 21S 37E 1980 FSL 1980 FWL Lea											
LatitudeLongitude											
NATURE OF RELEASE											
Type of Release Produced Water and Oil Volume of Release 130wtr/50oil Volume Recovered 125wtr/4	5oil										
Source of Release Water leg on gun bbl Date and Hour of Occurrence 10/1/09 1:00pm Date and Hour of Discovery 10/1/09 1:45pm											
Was Immediate Notice Given? If YES, To Whom?											
✓ Yes ☐ No ☐ Not Required Jeff Leiking											
By Whom? Natalie Gladden Date and Hour 2pm Was a Watercourse Reached? If YES, Volume Impacting the Watercourse.											
Was a Watercourse Reached?											
If a Watercourse was Impacted, Describe Fully.*											
Describe Cause of Problem and Remedial Action Taken.*											
Water leg on the gun bbl, plugged up causing the tanks to overflow. All fluid remained inside the containment walls.											
Describe Area Affected and Cleanup Action Taken.* Vacuum trucks were called out to recover standing fluid. Hyrdotech will be out 10/2 to vacuum out contaminated soil. Contaminated soil will off to Sundance Disposal.	be hauled										
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD runced regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may en public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, hur or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any federal, state, or local laws and/or regulations.	langer liability nan health										
OIL CONSERVATION DIVISION											
Signature: Approved by District Supervisor: Approved by District Supervisor:											
Title: EH&S Environmental Tech Approval Date: 0/09/09 Expiration Date: 17/09/09	2										
E-mail Address: natalie gladden@anachecom.com Conditions of Approval: \$1\RMIT F(\DA)	.46										
Attached L	8 10000										
Date: 10/1/09 Phone: 575/390-4186 * Attach Additional Sheets If Necessary											
**************************************	7/12/202										
	* ZZ/										
FGRL0928757083	.:										
	i.										
570 6 02 34	Ima										
	10										
	sed										
	Released to Imaging:										

State of New Mexico Oil Conservation Division

	T
Incident ID	
District RP	
Facility ID	
Application ID	

Released to Imaging:

Site Assessment/Characterization

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

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

contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information
M Photographs including date and GIS information
✓ Topographic/Aerial maps
Laboratory data including chain of custody

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

Form C-141 Page 4

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Released to Imaging: 7/12/2021 1:18:46 PM

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. Bruce BAKER Title: Environmental Tech SR. Printed Name: ____ Date: 10-28-19 larry, baker@apachecorp.com Telephone: 432-631-6982 **OCD Only** Received by: ____ Date: _____

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

State of New Mexico Oil Conservation Division

	CDI 0020757740
Incident ID	nGRL0928757748 -
District RP	
Facility ID	
Application ID	

Released to Imaging: 7/12/2021 1:18:46 PM

Remediation Plan

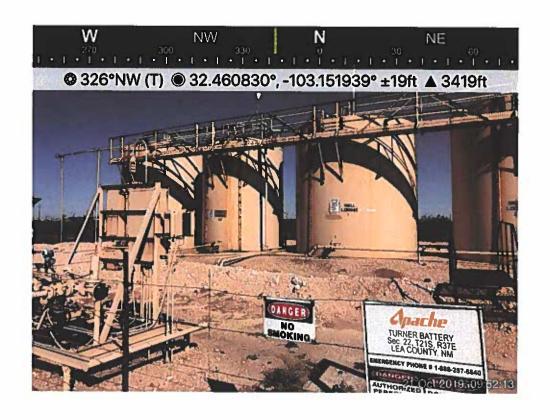
Remediation Plan Checklist: Each of the following items must be included in the plan.
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
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 BAKET Title: Environmental Tech SR.
Signature: Bune Bahr Date: 10-28-19
Printed Name: Bruce Baker Signature: Bune Baker Date: 10-28-19 email: larry baker@apachecop.com Telephone: 432-631-6982
OCD Only
Received by: Date:
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved
Signature: Bradford Billings Date: 07/12/2021

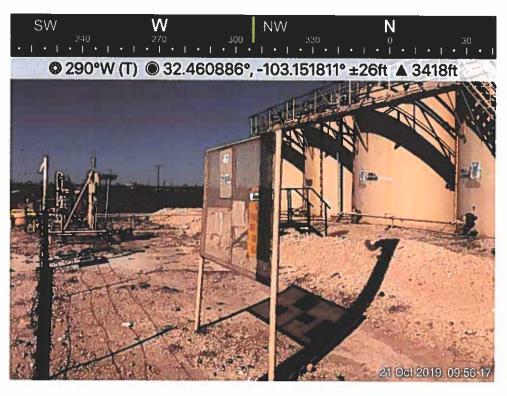
Released to Imaging: 7/12/2021 1:18:46 PM

Appendix B Photographs

Apache Corporation – Turner Battery

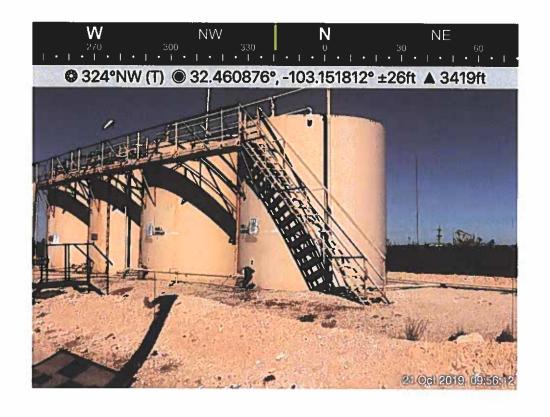
Unit Letter "K" (NE/SW), Section 22, Township 21S, Range 37E

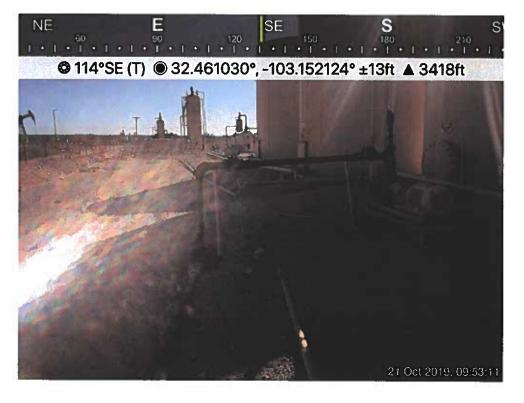




Apache Corporation – Turner Battery

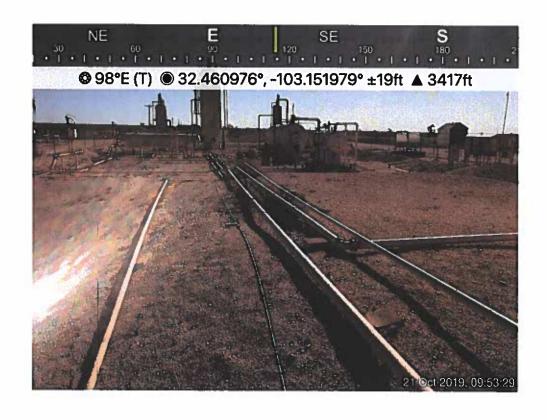
Unit Letter "K" (NE/SW), Section 22, Township 21S, Range 37E

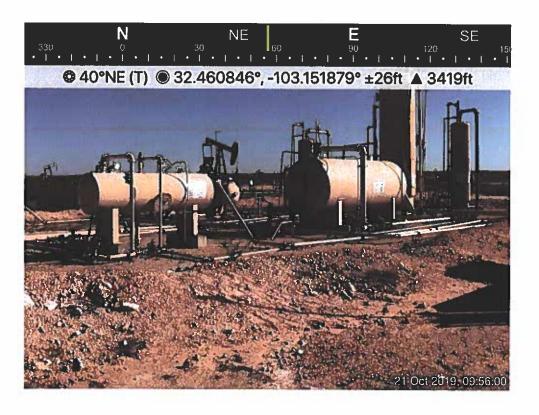




Apache Corporation – Turner Battery

Unit Letter "K" (NE/SW), Section 22, Township 21S, Range 37E





Appendix C | Closure Criteria Justification

TABLE 3 CLOSURE CRITERIA JUSTIFICATION

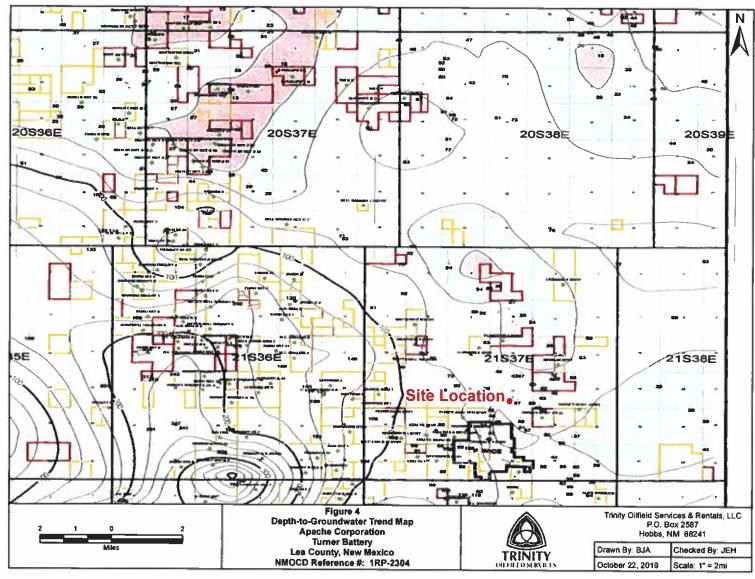
APACHE CORPORATION TURNER BATTERY LEA COUNTY, NEW MEXICO NMOCD REFERENCE #: 1RP-2304

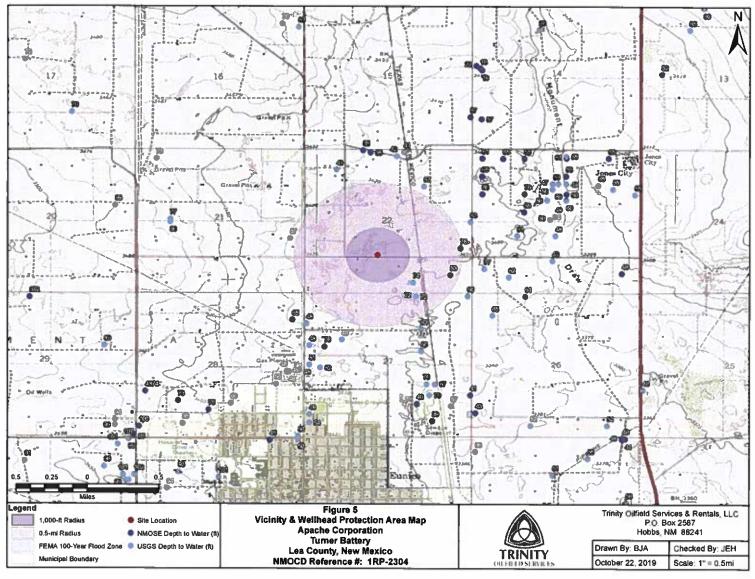


Groundwater, Water Wells & Other Water Sources			
Depth to groundwater (ft)?	70		
Horizontal distance (ft) from all water sources within 0.5 miles?	1,505 - 2,612		
Within 500' of a spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No		
Within 1000' of any fresh water well or spring?	No		
Surface Water	TO SERVICE		
Horizontal distance (ft) to nearest significant watercourse?	>1,000		
Within 300' of any continuously flowing watercourse or any other significant watercourse?	No		
Within 200' of any lakebed, sinkhole or playa lake?	No		
Human-Occupied, Environmental & Other Areas			
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No		
Within 300' of an occupied permanent residence, school, hospital, institution or church?	No		
Within 300' of a wetland?	No		
Within the area overlying a subsurface mine?	No		
Within an unstable area?	No		
Within a 100-year floodplain?	No		

Closure Criteria (mg/kg)*										
Benzene	BTEX	GRO + DRO	TPH	Chloride						
10	50	1,000	2,500	10,000						

^{*}Numerical limits or natural background level, whichever is greater







New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-		Q		A COLUMN							Depth	
Annual Control of the	Code basin (ounty	54	0 4	500	IWS	Kng	X	Y	Distance	Well	Water	Column
CP 00251 POD1	СР	LE	2	3 4	4 22	218	37E	674099	3592915*	415	103		
CP 01636 POD3	СР	LE	2	2	1 27	218	37E	673782	3592501 🌑	540	96		
CP 00733 POD1	СР	LE		3 :	3 22	21S	37E	673196	3592801*	558	7864		
CP 00732 POD1	CP	LE		4	1 22	218	37E	673584	3593613*	588	6633		
CP 00017 POD1	СР	LΕ	2	1 :	2 27	218	37E	674106	3592513*	661	101		
CP 00881	СР	LE		4 4	1 22	218	37E	674402	3592824*	731	95	53	42
CP 00285 POD1	СР	LE	3	1 2	2 27	218	37E	673906	3592313* 🌍	751	80		
CP 00252 POD1	СР	LĘ	4	2 4	1 22	218	37E	674493	3593125*	795	106	78	28

Average Depth to Water:

65 feet

Minimum Depth:

53 feet

Maximum Depth:

78 feet

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 673701.96

Northing (Y): 3593036.33

Radius: 804.67

*UTM location was derived from PLSS - see Help

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

10/22/19 2:11 PM

Received by OCD: 10/28/2019 11:15:15 AM

Page 1 of 1

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix D Laboratory Analytical Reports



August 08, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TURNER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/02/19 15:50.

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/qa/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)

Whe South

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

Page 1 of 16



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

08/02/2019

Reported:

08/08/2019

Project Name: Project Number: **TURNER BATTERY** NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

08/02/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP - 1 SURFACE 32.460938 (H902660-01)

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	08/07/2019	ND	1.97	98.6	2.00	0.0670	
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/07/2019	ND		[
Surrogate: 4-Bromosluorobenzene (PIL	107 9	% 73.3-12	9		<u> </u>			<u> </u>	
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	08/07/2019	ND	416	104	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	08/05/2019	ND	205	103	200	2.05	(2.7) (2.2) (a)
DRO >C10-C28*	16.8	10.0	08/05/2019	ND	205	102	200	3.94	
EXT DRO >C28-C36	13.1	10.0	08/05/2019	ND				917	
Surrogate: 1-Chlorooctane	68.2 5	% 41-142							
Surrogate: 1-Chlorooctadecane	69.0	% 37.6-147	7						

Cardinal Laboratories

*=Accredited Analyte

Whe Sunda

Mike Snyder For 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:

08/02/2019

Reported:

08/08/2019

Project Name: Project Number: **TURNER BATTERY** NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

08/02/2019

Sampling Type:

Sampling Condition:

Sample Received By:

Cool & Intact Tamara Oldaker

Sample ID: SP - 1 @ 1' -103.152039 (H902660-02)

BTEX 8021B	mg	mg/kg		Analyzed By: MS			_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.6	2.00	0.0670	-
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5. 9 9	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/07/2019	ND	+				

Surrogate: 4-Bromofluorobenzene (PIL	110	% 73.3-12	29						
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	08/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS		_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/05/2019	ND	205	103	200	2.05	
DRO >C10-C28*	66.5	50.0	08/05/2019	ND	205	102	200	3.94	
EXT DRO >C28-C36	68.3	50.0	08/05/2019	ND					
- A-2	-								

Surrogate: 1-Chlorooctane

69.4 %

41-142

Surrogate: 1-Chlorooctadecane

79.4 %

37.6-147

Cardinal Laboratories

*=Accredited Analyte

with Smylin

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

Page 3 of 16



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

08/02/2019

Reported:

08/08/2019

Project Name: Project Number: TURNER BATTERY

Project Location:

NONE GIVEN

Sampling Date:

08/02/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP - 1 @ 2' (H902660-03)

BTEX	8021B

100.00	tle.

Analyzed By: MS

				a by. Ma					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.6	2.00	0.0670	•
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/07/2019	ND			5.50	1.55	
Surrogate: 4-Bromofluorobenzene (PIE	106 5	% 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	<16.0	16.0	08/07/2019	ND	416	104	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*	<50.0	50.0	08/05/2019	ND	205	103	200	2.05	- 38
DRO >C10-C28*	232	50.0	08/05/2019	ND	205	102	200	3.94	
EXT DRO >C28-C36	223	50.0	08/05/2019	ND				3.51	
Surrogate: 1-Chlorooctane	73.0 9	6 41-142			2.0				
Surrogate: 1-Chlorooctadecane	86.29	6 37.6-147	7						

Cardinal Laboratories

Received by OCD: 10/28/2019 11:15:15 AM

*=Accredited Analyte

PLEASE NOTE: Labeling and Damages. Cardinal's labeling and client's exclusive remedy for any claim arising, whether based in contract or tork, shall be lainted to the amount paid by client for analyses. All claims, including those for negligence any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages including, without limitation, without limitation, business Interruptions, loss of use, or loss of profits inclumed by client, its subsidiance, adhibitors or successors arising out of or related to the performance of the services hereunder by Cerdinal, negaritiess of whether successors and only of the above solded reasons or otherwise. Results relate only to the samples betrefiled above. This

with South

Mike Snyder For 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:

08/02/2019

Reported:

08/08/2019

Project Name: Project Number: TURNER BATTERY NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

08/02/2019

Sampling Type:

Soil

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

Sample ID: SP - 2 SURFACE 32.461292 (H902660-04)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.6	2.00	0.0670	
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39	1
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 %	6 73.3-129	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/07/2019	ND	416	104	400	3.92	
TPH 8015M	i 8015M mg/kg		Analyzed By: MS						S-06

Method Blank

ND

ND

ND

BS

188

189

% Recovery

94.0

94.7

True Value QC

200

200

RPD

0.506

1.05

Qualifier

Analyzed

08/05/2019

08/05/2019

08/05/2019

Surrogate: 1-Chlorooctane 97.3 % 41-142
Surrogate: 1-Chlorooctadecane 340 % 37.6-147

Result

<50.0

8060

4530

Reporting Limit

50.0

50.0

50.0

Cardinal Laboratories

Analyte

GRO C6-C10*

DRO >C10-C28*

EXT DRO > C28-C36

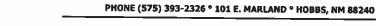
*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's labelity 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 as any other cause whatsoever shall be deemed walved 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 damage including, without limitation, business interruptons, loss of use, or loss of profits incirred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, repardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, repardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, repardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, repardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, repardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, repardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, repardless of whether successors arising out of or related to the performance of the services.

Whe Sough

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

Page 5 of 16



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

08/02/2019

CARDINAL Laboratories

Reported:

08/08/2019

Project Name: Project Number: **TURNER BATTERY** NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

08/02/2019

Sampling Type:

Soil Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP - 2 @ 1 -103.151627 (H902660-05)

BTEX 8021B	mg/l	(g	Analyze	ed By; MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.6	2.00	0.0670	
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 %	73.3-12	9	···					
Chloride, SM4500CI-B	mg/l	(g	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg/l	g	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	08/06/2019	ND	188	94.0	200	0.506	
DRO >C10-C28*	555	10.0	08/06/2019	ND	189	94.7	200	1.05	
EXT DRO >C28-C36	470	10.0	08/06/2019	ND				2.00	
Surrogate: 1-Chlorooctane	100 %	41-142	-						
Surrogate: 1-Chlorooctadecane	131 %	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

wite Such

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

Page 6 of 16



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

08/02/2019

Reported:

08/08/2019

Project Name: Project Number: TURNER BATTERY NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

ping bacc.

08/02/2019 Soil

Sampling Type: Sampling Condition:

3011

Sample Received By:

Cool & Intact Tamara Oldaker

Sample ID: SP - 2 @ 2' (H902660-06)

BTEX	8021	B

B1O	114	

134%

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	08/07/2019	ND	1.97	98.6	2.00	0.0670	
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	106 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	88	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Anaiyze	d By: MS			**		_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2019	ND	188	94.0	200	0.506	
DRO >C10-C28*	360	10.0	08/06/2019	ND	189	94.7	200	1.05	
EXT DRO >C28-C36	341	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	99.8 9	% 41-142							

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

PLEASE NOTE: Liability and Clambigs. Cardinal's stability and clerit's exclusive rememby for any cleam arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence an any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequencial damage: including, without limitation, business interruptions, loss of or use, or loss of profits incimed by client, its subsidiances, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether suc claims 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 writinal approval of Cardinal Laboratories.

who Smale

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

Released to Tnaging: 7/12/2021 1:18:46 PM



Analytical Results For:

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

Received: Reported: 08/02/2019

08/08/2019

Project Name: Project Number: TURNER BATTERY NONE GIVEN

Project Location:

NONE GIVEN

92.5 %

37.6-147

Sampling Date:

inpling Date.

Sample Received By:

Sampling Type:

Sampling Condition:

08/02/2019

Soil

Cool & Intact Tamara Oldaker

Sample ID: SP - 3 SURFACE 32.461021 (H902660-07)

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	08/07/2019	ND	1.97	98.6	2.00	0.0670	
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromosluorobenzene (PIE	105	% 73.3-12	9			u P dilana			
Chloride, SM4500CI-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	08/07/2019	ND	416	104	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	08/05/2019	ND	188	94.0	200	0.506	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND					
Surrogate: 1-Chlorooctane	96.3	% 41-142							

Cardinal Laboratories

Received by OCD: 10/28/2019 11:15:15 AM

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim avising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence an any other causes whatcoever shall be deemed welved 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 informance of the services hereunder by Cardinal, regardless of whether suctioning. Without limitation, business informance of the services hereunder by Cardinal, regardless of whether suctioning to the above stated related in absorts or otherwise. Results relate only to the samples identified above. This report shall not be reproducted except in full with written approval of Cardinal Laboratories.

mile Smythe

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

Page 8 of 16



CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

08/02/2019

Reported:

08/08/2019

Project Name: Project Number: **TURNER BATTERY** NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

08/02/2019 Soil

Cool & Intact Tamara Oldaker

Sample ID: SP - 3 @ 1' -103.152031 (H902660-08)

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	08/08/2019	ND	1.97	98.6	2.00	0.0670	
Toluene*	<0.050	0.050	08/08/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	5.99	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	6 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	08/07/2019	ND	416	104	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	08/05/2019	ND	188	94.0	200	0.506	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND					
Surrogate: 1-Chlorooctane	91.4	% 41-142							
Surrogate: 1-Chlorooctadecane	87.7	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Whe South

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

Released to Imaging: 7/12/2021 1:18:46 PM

to Hnaging: 7/12/2021 1:18:46 PM





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

08/02/2019

Reported:

08/08/2019

Project Name: Project Number: TURNER BATTERY

Project Location:

NONE GIVEN **NONE GIVEN** Sampling Date:

08/02/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

		_
RTFY	2071	R

Sample ID: SP - 3 @ 2' (H902660-09)

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	08/08/2019	ND	1.97	98.6	2.00	0.0670	
Toluene*	<0.050	0.050	08/08/2019	ND	2.00	100	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	1.96	97.9	2.00	1.29	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	5.99	99.8	6.00	1.39	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	107 %	6 73.3-129)			···			
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ing,	ing/ ng Analyzed By: AC							
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
48.0	16.0	08/07/2019	ND	416	104	400	3.92	
mg,	/kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/05/2019	ND	188	94.0	200	0.506	
<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05	
<10.0	10.0	08/05/2019	ND					
	Result 48.0 mg/ Result <10.0 <10.0	### Result Reporting Limit <10.0 10.0 <10.0 10.0	Result Reporting Limit Analyzed 48.0 16.0 08/07/2019 mg/kg Analyze Result Reporting Limit Analyzed <10.0	Result Reporting Limit Analyzed Method Blank 48.0 16.0 08/07/2019 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	Result Reporting Limit Analyzed Method Blank BS 48.0 16.0 08/07/2019 ND 416 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery 48.0 16.0 08/07/2019 ND 416 104 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 48.0 16.0 08/07/2019 ND 416 104 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed By: MS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 48.0 16.0 08/07/2019 ND 416 104 400 3.92 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Surrogate: 1-Chlorooctane

90.6 %

41-142

Surrogate: 1-Chlorooctadecane

86.0 %

37.6-147

Cardinal Laboratories

Received by OCD: 10/28/2019 11:15:15 AM

*=Accredited Analyte

Whe South

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

Page 10 of 16



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

08/02/2019

Reported:

08/08/2019

Project Name: Project Number:

TURNER BATTERY NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

08/02/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP - 4 SURFACE (H902660-10)

BTEX	8021B

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2019	ND	1.98	98.9	2.00	0.851	
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652	
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117	
Total BTEX	<0.300	0.300	08/06/2019	NĐ	ļ				
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 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	08/07/2019	ND	416	104	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	08/06/2019	ND	188	94.0	200	0.506	
DRO >C10-C28*	216	10.0	08/06/2019	ND	189	94.7	200	1.05	
EXT DRO >C28-C36	173	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	98.0	% 41-142	7.						
Surrogate: 1-Chlorooctadecane	1169	6 37.6-147	7						

Cardinal Laboratories

Received by OCD: 10/28/2019 11:15:15 AM

*=Accredited Analyte

PLEASE NOTE: Uabbity and Damages. Cardnafs fabbity and claim'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 a any other cause whatalover shall be deemed we'ved unless made in writing and received by Cersinal within thirty (30) days after completion of the applicable service. In no event shall Cardnal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, as subsidiantes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardnal, 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 excessors a full with written approval of Cardnal Laboratories.

with Such

Mike Snyder For 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:

08/02/2019

Reported:

08/08/2019

Project Name: Project Number:

TURNER BATTERY NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

08/02/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP - 4 @ 1' 32.440102 (H902660-11)

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	08/06/2019	ND	1.98	98.9	2.00	0.851	
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652	
Ethylpenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117	
Total BTEX	<0.300	0.300	08/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	102	% 73.3-12	9				Vill-vi-		
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	08/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS			_		S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/05/2019	ND	188	94.0	200	0.506	
DRO >C10-C28*	5180	50.0	08/05/2019	ND	189	94.7	200	1.05	
EXT DRO >C28-C36	2700	50.0	08/05/2019	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142	10.0	W			1.77	-	
Surrogate: 1-Chlorooctadecane	406 9	% 37.6-14	7						

Cardinal Laboratories

Received by OCD: 10/28/2019 11:15:15 AM

*=Accredited Analyte

PLEASE ROITE: Listony and Damages. Cardinar's abovey and client's exclusive remedy for any client arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring other cause whatsoever 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 damage including, without limitation, business intemptions, loss of use, or loss of profits incurred by client, a subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, repardless of whether succlaim 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 Libboratories.

whe Single

Mike Snyder For 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: Reported: 08/02/2019 08/08/2019

Project Name: Project Number: TURNER BATTERY NONE GIVEN

NONE GIVEN

Project Location:

2/2019

Sampling Date: Sampling Type:

Sampling Type: Soil Sampling Condition: Cool

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

08/02/2019

Sample ID: SP - 4 @ 2' -103.178841 (H902660-12)

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	08/06/2019	ND	1.98	98.9	2.00	0.851	1
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652	
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117	,
Total BTEX	<0.300	0.300	08/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL

101 %

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	08/07/2019	ND	416	104	400	3.92	
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*	<50.0	50.0	08/05/2019	ND	188	94.0	200	0.506	
DRO >C10-C28*	2440	50.0	08/05/2019	ND	189	94.7	200	1.05	
EXT DRO >C28-C36	1160	50.0	08/05/2019	NĐ					

Surrogate: 1-Chlorooctane

103 %

41-142

73.3-129

Surrogate: 1-Chlorooctadecane

273 %

37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Usebity and Damages. Cardinal's labelity and clearly exclusive remedy for any claim arising, whether based in contract or tore, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other clause whatcover shall be deemed valved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be leaded to the performance of the services hereunder by Cardinal, negardless of whether such claims is based upon any of the above stated massing 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.

who Smale

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

Page 13 of 16

Released to Thaging: 7/12/2021 1:18:46 PM



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.

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

Received by OCD: 10/28/2019 11:15:15 AM

*=Accredited Analyte

any other cause whatsoners shall be deem't exclusive remady for any dalm arising, whether based in contract or toot, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoners shall be deemed where durings made in writing and received by Cardinal within thinty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, 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 aborisotries.

Whe Sinde

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	: Apache corporation							30	500	ELIS,	8/	LL	70	THE REST	į.					ANA	LYS	IS E	EC	ILES	RT.			
Project Manage	1: Bruce Baker							P.	O. #							1	T			T	Ī	<u> </u>	T		31			
Address:								Co	mp	any	':					1												
City:	State:	Z	p:					т-	tn:							l	ı						-1					
Phone #:	Fax #:							Ad	ldre	988:					1	l					1	H	-1					
Project#:	Project O	wner:						1	ty:						1	1							-1					
Project Name:	Turner Battery							1	ate:			Zip			1					1	1							
Project Locatio	n: TURACE Battery							1-	юле						1					1	ı							
Sampler Name:	n: TURNEY Battery David Raster							-	x #	-	_	-			1					1		1					1	
POR LAB LISE ONLY		1	Т	П	М	ATR	DX.	1		ESE	RV.	8	AMPL	ING	1					1		s					1	
Lab I.D.	Sample I.D.	GIRAB OR (CXOMP	# CONTAINERS	GROUNDWATER	WASTEWATER	Soli	SLUDGE	THER:	ACID/8ASE	ICE / COOL	отнек		ATE	TIME	77	EXT TPH		STEX						:				
1	57-1 Sertow 22.4LA 438		1	Ť			1	ľ	† *	-	Ĭ		2-19	711112		7	+	거		+	+	┿	+	\dashv		<u> </u>	\vdash	
2	59-1 sortice 32.460938 59-1@1-103-152039		✝	П		\top	十	\vdash	t	Н			1		۲		╁	•	_	\vdash	╆╌	╫	╫				\vdash	
3	57-1 62. 5p-2 suring 32.46-1292		Т	П		\top	\top	\vdash	1	Н	Н	Г	+-				╈	Н		\vdash	╫	-	+	-		_	\vdash	
4	3p-2 Suray 32.461292		Т	\Box	\top	+	\top		Г			\vdash	1		┝		╆	H		1-	\vdash	┪—	+	_				\vdash
	58-281-103-151627		Т	П		\top	\top	\vdash		П			1	-	\vdash		t	Ħ		┰	┼	+-	+					-
6	5P 282		1	П		\top	\top	丅	┢	П	41		1	<u> </u>	H		t	Н			-	+	╁		_			┝─┤
7	52-3 SAFLIE 32.461021		Т			\top	1		Г	П					\Box	\Box	T	Ħ		1	╁	╅	+	┪				
\{\}	51.382-103-152031		Т			T	Τ	П	Γ		П	Г				\sqcap	T	П			_	\top	+					
7	51-362		П			Т	T	П	Г	П	П	-	/				T	71		_		+	+	_	$\overline{}$			-
[0	Sp-4 Surface		L									8.7	1.14		\vdash		Τ	П		\vdash		+	+					
service. In no event shall C	nd Derrugue. Continuits finishly and observe exclusive repre- rys these for negligence and any other count whetever a vertical to listfo for lendstead or consequential derrugues, in my set of or related to the performance of services become V: Distract.	Mill be deem cluding willy or by Cardin	nd wyk rut liere n <u>i, roge</u>	red ante talon, b	nis mad nulikasa pi mhath	o in well latera	ling an Mone	d race box o	derpej (s d'union	y Carl	Brain of or	eliteri Si	days arb	r completion of the	e applica ries, 9.	C Ye		0	Në.	10.00	, EV.							
Day (A	When Times 1975			2/4	ua	KA	1			ak	4	e		Fax Result REMARKS	t:	□ Ye				Add'i								=
Delivered By:	Time:			,			427		_	-																		
	: (Circle One) 1.3c - Bus - Other: Portuite		97		Samp Cool	Into	ndit ect Ye	ion s	4	- (ED E lais)	IY:															



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	(575) 393-2326 FA	A (876) 393-241	<u>-</u>	_	_	_	_	_	15	wt at	abile.	RI	LL TO	ROMENT WITH					ANA	VSI	SRE	OHE	ST	-		—
Project Manage	IT Bruce Baker	<u> </u>	_	_	_				1	.0.#										130	7 7	T	<u> </u>			
Address:	- C Sales		_	_	_	_	_	_			pany	w:		- 11			l									i
City:	1	State:	Zip	1:	_		_		_	ttn:		·					I	1					-			i
Phone #:		Fax#:		-		_	_	_	_	ddre		_					l						0			i
Project#:		Project Owner	r:	_	_		_	_	_	ity:							ļ									l l
Project Name:	THERE Butter								-	tate:	•••	_	Zip:		1		ŀ									i
Project Locatio	TWNER Buttery in: TWNER Batter	ry							_	hone							i		}							i
Sampler Name:	Daviel Rosse	·/								ax #:								0.50	Ì							i
POR LAB USE ONLY	1						ATR	IX	÷	PF	RESE	ERV	SAMPLE	NG				ш								i
Lab I.D.	Sample		(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLIDGE	SLUDGE	ACID/BASE.	ICE / COOL	ОТНЕВ		TIME	73	Ext TPH	BIEX									
11	57-401321	140102	L	Ľ		\Box	\perp	\perp	\perp	\perp	\perp	\perp'	2.2.19		V		V									
12	52402-103.	123 841	╄	Ľ	Ľ	\sqcup	4	\perp	\perp	1	\perp	⊥′	8.2.19	└─	1	<u></u> _										
			╄	₽'	 '	1	+	+	+	+	+	⊥′	igwdap	 '				ļ	ــــــ	↓	↓	 	Ц_			<u> </u>
			╄	-	╀	H	+	+	+	╁	+	₩		——'				├	 	↓	╙	<u> </u>	↓	\sqcup	\sqcup	
			╀	+	╂┵	+	+	+	+	+	+	+	\vdash	'	\vdash	 		├	₩	├	┼—	┼	₩			<u>—</u>
			╆	1	十	\vdash	+	+	+	十	+	+-	\vdash			\vdash		⊢		├	╀	\vdash	-	$\vdash\vdash$	$\vdash \vdash$	
			H		H	一十	+	+	+	十	+	+	\vdash		\vdash				\vdash	├	 	┼──	\vdash			
			H	Н	H	\sqcap	+	+	+	+	+	+		[_	 	 	\vdash	\vdash	 	$\vdash\vdash$	 	
			T			一	+	\top	+	T	†	\vdash									\vdash	\vdash	 		$\vdash \vdash$	$\overline{}$
enelyses. All dates include service. In no word shall C	alla-	her couse whatseaver shall be o merguented demogras, including	Gundrin	ed velori et lants d. /repus 9 CO i \	rad urā Italien, b	By:	ajo in wel m inform	د وليون د وليون	and rec nt, but	colved to	i by Con n. or loo	estinal v ses of pr	within 30 days plan profits incurred by d he above staiged can	er completion of th client, his subplicing	he applicat sries. se. skult; lt;	O Yes		No No	Add1	Phone Fex #:	#: .					



August 20, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TURNER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/16/19 15:50.

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.tceg 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

to thanging: 7/12/2021 1:18:46 PM





Analytical Results For:

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

Received:

08/16/2019

Reported:

08/20/2019

Project Name: Project Number:

TURNER BATTERY NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

08/16/2019

Sampling Type:

Soil Sampling Condition:

Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: SP. 4 @ 3' (H902828-01)

BTEX 80218	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	08/20/2019	ND	1.83	91.3	2.00	1.39	
Toluene*	<0.050	0.050	08/20/2019	ND	2.02	101	2.00	0.977	
Ethylbenzene*	<0.050	0.050	08/20/2019	ND	2.09	105	2.00	0.730	
Total Xylenes*	<0.150	0.150	08/20/2019	ND	6.33	105	6.00	0.921	
Total BTEX	<0.300	0.300	08/20/2019	NO					
Surrogate: 4-Bromofluorobenzene (PIC	104 9	6 73.3-12	9				<u>.</u>		
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	08/19/2019	ND	216	108	200	0.0102	
DRO >C10-C28*	195	10.0	08/19/2019	ND	216	108	200	1.23	
EXT DRO >C28-C36	167	10.0	08/19/2019	ND					
Surrogate: 1-Chlorooctane	100 %	6 41-142							
Surrogate: 1-Chlorooctadecane	121 %	6 37.6-14	7						

Cardinal Laboratories

Received by OCD: 10/28/2019 11:15:15 AM

*=Accredited Analyte

Celeny & Keens

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:

08/16/2019

Reported:

08/20/2019

Project Name: Project Number: TURNER BATTERY NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

08/16/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP. 4 @ 4' (H902828-02)

BTEX 8021B	mg/l	(g	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2019	ND	1.83	91.3	2.00	1.39	
Toluene*	<0.050	0.050	08/20/2019	ND	2.02	101	2.00	0.977	
Ethylbenzene*	<0.050	0.050	08/20/2019	ND	2.09	105	2.00	0.730	
Total Xylenes*	<0.150	0.150	08/20/2019	ND	6.33	105	6.00	0.921	
Total BTEX	<0.300	0.300	08/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 %	73.3-129)					<u>. </u>	
TPH 8015M	mg/l	g	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	08/19/2019	ND	216	108	200	0.0102	
DRO >C10-C28*	27.0	10.0	08/19/2019	ND	216	108	200	1.23	
EXT DRO >C28-C36	21.9	10.0	08/19/2019	ND					
Surrogate: I-Chlorooctane	105 %	41-142							
Surrogate: 1-Chlorooctadecane	113 %	37.6-147	el .						

Cardinal Laboratories

*=Accredited Analyte

any other cause whatsoever shall be deemed wahed 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 damage including, without further than the state of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without further and the state of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without further and the state of the services hereunder by Cardinal, regardless of whether audining the shows 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 & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 8

Released to Imaging: 7/12/2021 1:18:46 PM

Released to Thaging: 7/12/2021 1:18:46 PM



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:

08/16/2019

Reported:

08/20/2019 **TURNER BATTERY**

Project Name: Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

08/16/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: SP. 4 @ 5' (H902828-03)

BTEX 8021B

DIEX 8021B	mg,	rkg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2019	ND	1.83	91.3	2.00	1 39	
Toluene*	<0.050	0.050	08/20/2019	ND	2.02	101	2.00	0.977	
Ethylbenzene*	<0.050	0.050	08/20/2019	ND	2.09	105	2.00	0.730	
Total Xylenes*	<0.150	0.150	08/20/2019	ND	6.33	105	6.00	0.921	
Total BTEX	<0.300	0.300	08/20/2019	ND					

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*	<50.0	50.0	08/19/2019	ND	216	108	200	0.0102	
DRO >C10-C28*	568	50.0	08/19/2019	ND	216	108	200	1.23	
EXT DRO >C28-C36	189	50.0	08/19/2019	ND					

Surrogate: 1-Chlorooctane

86.2 %

41-142

Surrogate: 1-Chlorooctadecane

124%

37.6-147

Cardinal Laboratories

Received by OCD: 10/28/2019 11:15:15 AM

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 8



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

08/16/2019

Reported:

08/20/2019

Project Name:

TURNER BATTERY

Project Number: Project Location: NONE GIVEN

Sampling Date:

08/16/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP. 4 @ 6' (H902828-04)

BTEX	

mg/kg

Analyzed By: MS

		<u></u>	Analyzo	o oy. Ma					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2019	ND	1.83	91.3	2.00	1.39	
Toluene*	<0.050	0.050	08/20/2019	ND	2.02	101	2.00	0.977	
Ethylbenzene*	< 0.050	0.050	08/20/2019	ND	2,09	105	2.00	0.730	
Total Xylenes*	<0.150	0.150	08/20/2019	ND	6.33	105	6.00	0.921	
Total BTEX	<0.300	0.300	08/20/2019	ND					
							*		

Surrogate: 4-Bromofluorobenzene (PIL

106 %

73.3-129

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	08/20/2019	ND	205	103	200	3.16	
DRO >C10-C28*	64.6	10.0	08/20/2019	ND	194	97.1	200	3.77	
EXT DRO >C28-C36	52.9	10.0	08/20/2019	ND					

Surrogate: 1-Chlorooctane

96.7%

41-142

Surrogate: 1-Chlorooctadecane

109 %

37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Usbility and Damages. Cursine's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed welved unless made in writing and received by Cardinal webin 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, as subclidates, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be retroduced excess in full with written accommend of Cardinal Johnston.

Celeny D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 8

Released to Imaging: 7/12/2021 1:18:46 PM



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

08/16/2019

Reported:

08/20/2019

Project Name: Project Number: TURNER BATTERY

Project Location:

NONE GIVEN

Sampling Date:

08/16/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Sample ID: SP. 4 @ 7' (H902828-05)

BTEX 8021

ma (ka

Analyzed Ry: MS

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	08/20/2019	ND	1.83	91.3	2.00	1.39	
Toluene*	<0.050	0.050	08/20/2019	ND	2.02	101	2.00	0.977	
Ethylbenzene*	<0.050	0.050	08/20/2019	ND	2.09	105	2.00	0.730	
Total Xylenes*	<0.150	0.150	08/20/2019	ND	6.33	105	6.00	0.921	
Total BTEX	<0.300	0.300	08/20/2019	ND		1			
Surrogate: 4-Bromosluorobenzene (PIE	106 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	08/20/2019	ND	205	103	200	3.16	
DRO >C10-C28*	<10.0	10.0	08/20/2019	ND	194	97.1	200	3.77	

ND

Surrogate: 1-Chlorooctane
Surrogate: 1-Chlorooctadecane

EXT DRO >C28-C36

94.9 %

<10.0

41-142

08/20/2019

10.0

100 %

37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLESS NOTE: Liability and Danages. Cardinal's lability and client's exclusive remody for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed welved unless made in writing and received by Clerk within thirty (30) days after completion of the applicable service. In no event shall Cardinal be Bable for incidental or consequential claimages including, wethout limitation, business infermentions, loss of use, or loss of profits incurred by client, as subcidentes, affiliates or successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sucl claim's 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 & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 8

Released to Inaging: 7/12/2021 1:18:46 PM



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.

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

Received by OCD: 10/28/2019 11:15:15 AM

*=Accredited Analyte

PEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be fieldle 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 writina approval of Cardinal aboventiones.

Celey D. Kuna

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: A Pache Corporation
Project Manager: Bruce Baker BILL TO ANALYSIS REQUEST P.O. #: Address City: State: Zip: Attn: Phone #: Fax #: Adda **Project Owner:** City: Project Name: Tulser Bettery State: Zip: Project Location: TWNer Battery
Bampier Name: Populal Rusice Phone #: Sampler Name: Pariel (G)RAB OR (C)OMP GROUNDWATER WASTEWATER SSS EXT. TH # CONTAINERS SLUDGE OTHER ACID/BASE: ICE / COOL OTHER BTEX Lab I.D. Sample I.D. SQ OF H902828 DATE TIME SP4 0 3 48404 48405 SP405 SP407 8/1/19 9:00 234 9:05 9:07 9:11 8 | M 9 15

Email to Bruce and Jeff Delivered By: (Circle One) 1497

Received by OCD: 10/28/2019 11:15:15 AM

Sampler - UPS - Bus - Other:

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 2112

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	2112
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	Final assessment and remediation is deferred until P&A or access becomes available.	7/12/2021