

Remediation Plan

December 2, 2021

Re: Black and Tan 301H Case: nAPP2125731884

Background:

On 9/5/2021 a release occurred due to a hole in a 2 -inch Kimray valve. The release (GPS: 32.537448, -103.554493) is located west of Monument, New Mexico in unit letter M section 27 township 20S range 34E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest well of record drillers log suggest that groundwater in the area is greater than 100 feet.

On 10/6/2021 vertical delineation was conducted in regular intervals utilizing a backhoe to depths of 1 to 3 feet. All vertical samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results on SP7 were above reclamation standards for TPH. On 10/20/2021 SP7 was further delineated to a depth of 3 feet. All samples collected were submitted to a commercial laboratory for analysis of TPH and BTEX. On 12/1/2021 5-point surface horizontal composite samples were collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

Remediation Plan:

Apache Corporation purposes that the pad area be scraped to a depth of 6 inches to one foot. The pasture area be excavated to 3 feet. Final 5-point bottom and wall composite samples will be collected not to exceed 500 square feet and submitted to commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated material (508 yards) will be hauled to an OCD approved disposal facility. Once table one standards for releases greater than 100 feet to groundwater and reclamation standards for the pasture. The pad area of the excavation will be backfilled with clean imported caliche to restore the pad. The pasture area will be backfilled with clean imported topsoil to ground surface and contoured to the surrounding area. The pasture disturbed area will be reseeded in accordance with the surface landowner's guidelines. The remediation will be completed within 90 days of OCD approval of the plan.

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

Submitted by;

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-215-2284

Bruce Baker

Received by OCD: 12/2/2021 3:58:54 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

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?	> 100 (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
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.	tical 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 ✓ 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 	ls.
·	

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.

Received by OCD: 12/2/2021 3:58:54 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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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 thr addition, 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: Larry Baker	Title: Environmental Tech SR.
Signature: Larry Baker	Date: 12/2/2021
Signature: Larry Baker email: larry.baker@apachecorp.com	Telephone: 432-215-2284
OCD Only	
Received by:	Date:

State of New Mexico

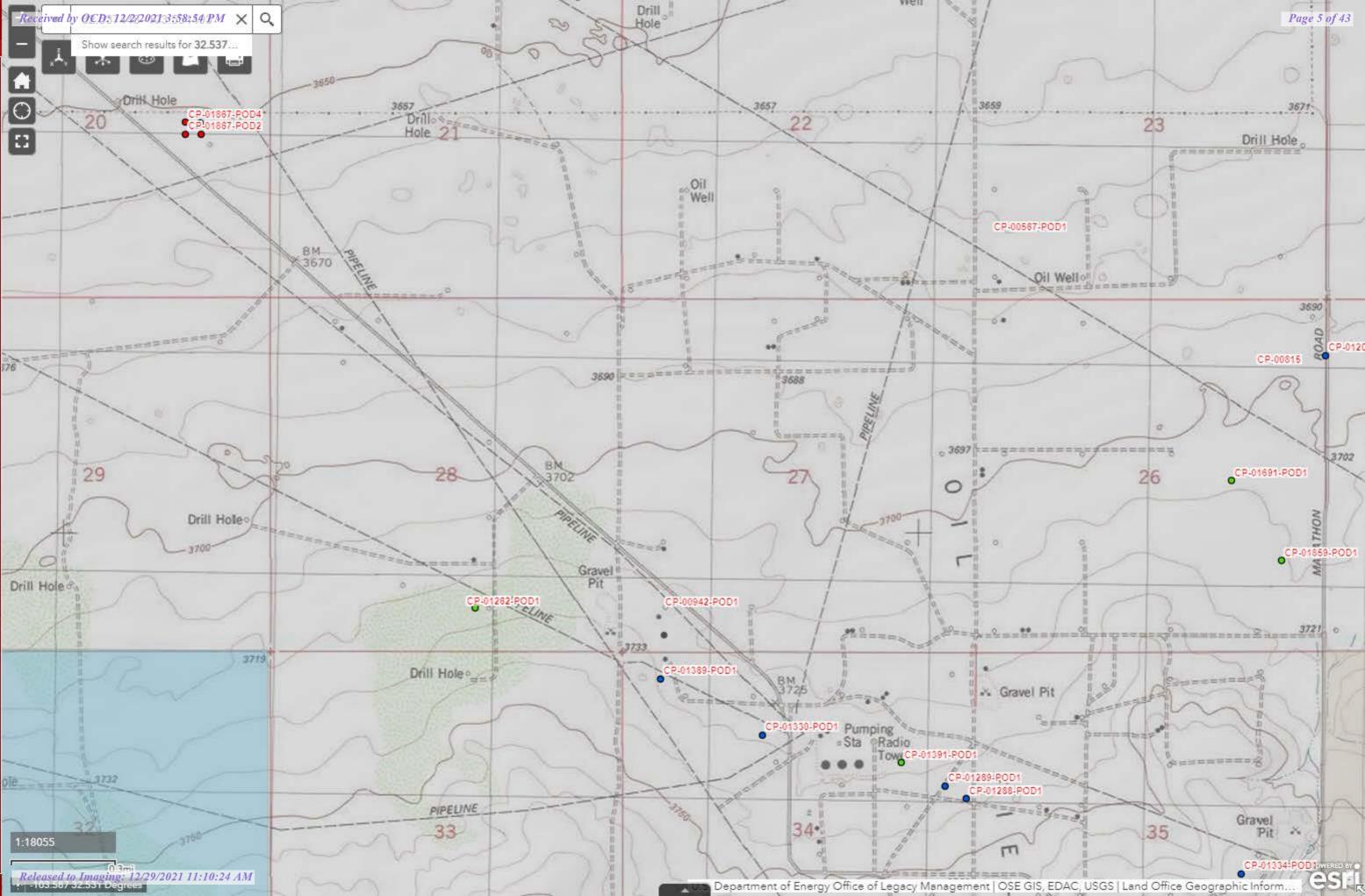
Oil Conservation Division

Division

	Page 4 of	43
Incident ID		
District RP		
Facility ID		
Application ID		

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 19.15.29.1 ✓ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be conjugate to the second se	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around prodeconstruction.	oduction equipment where remediation could cause a major facility
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 rules and regulations all operators are required to report and/or file complete which may endanger public health or the environment. The acceptar liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local laterals.	ertain release notifications and perform corrective actions for releases ace of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, cceptance of a C-141 report does not relieve the operator of
Printed Name: Larry Baker	Title: Environmental Tech SR.
Signature: Larry Baker	Date: 12/2/2021
email: larry.baker@apachecorp.com	Telephone: 432-215-2284
OCD Only	
Received by: Chad Hensley	Date:12/29/2021
Approved	Approval
Signature:	Date: 12/29/2021





NO	OSE POD NO). (WELL NO).)	,	WELL TAG II	D NO.		OSE FILE NO	5) 1867 (POD 1	
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GE	DESCRIPTION	ON RELATI	NG WELL LOCATION TO	STREET ADDRE	SS AND COM	MON LAND	MARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WI	HERE AVAILABLE	
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	LICENSE NO		NAME OF LICENSED				-		NAME OF WELL DE		
	175	5	John	D, No	2371				Hungry	Horse, LLC	-
	DRILLING S		DRILLING ENDED	DEPTH OF COM	PLETED WE	LL (FT)		LE DEPTH (FT)	DEPTH WATER FIR	RST ENCOUNTERED (F	Γ)
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Z	COMPLETE	D WELL IS:	ARTESIAN	X DRY HOLE	SHA	ALLOW (UNC	CONFINED)		N/A	VEL IN COMPLETED W	ELL (FT)
TIO	DRILLING F	LUID:	∏ i AIR	MUD	ADI	DITIVES – SPI	ECIFY:				
DRILLINĞ & CASING INFORMATION	DRILLING M	METHOD:	ROTARY	HAMMER	CAI	BLE TOOL	ОТНЕ	R – SPECIFY:			
(FO	DEPTH	(feet bgl)	BORE HOLE	CASING M	IATERIAL	AND/OR			CASING		
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3.											
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LOC	ATION	2.41		T105	R341	= X	20	WELL TAG II	DNO. NIA	PAG	E 1 OF 2

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	33′	92'	591	5 And	Y Э	
	92'	172'	80'	Red Clay	Y Ø	
	172'	200'	28'	SAnd	Y)	
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	PUMI	P A	IR LIFT	BAILER OTHER-SPECIFY: NOT Tested	WELL YIELD (gpm):	0.00
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John R. D Antonio, Jr., P.E. State Engineer



koswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

689366

File Nbr:

CP 01867

Well File Nbr: CP 01867 POD1

May. 12, 2021

VERNON K BLACK HUNGRY HORSE LLC PO BOX 1058 HOBBS, NM 88241

Greetings:

The above numbered permit was issued in your name on 03/08/2021.

The Well Record was received in this office on 05/12/2021, stating that it had been completed on , and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

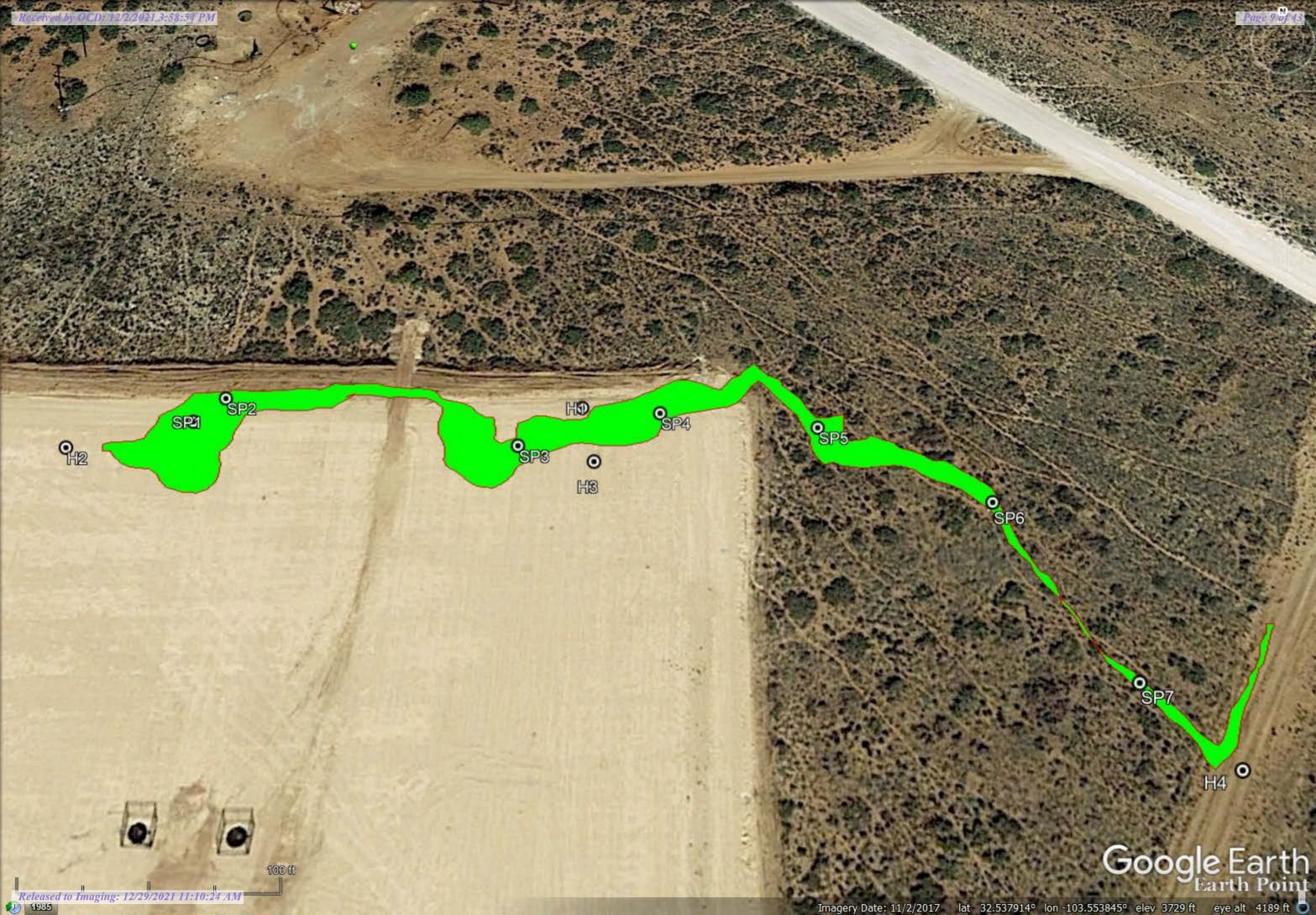
Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/08/2022.

If you have any questions, please feel free to contact us.

Sincerel

Andrew Dennis (575) 622 - 6521

drywell



Delineation Samples

Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenz	Total	Total	GRO	DRO	EXT DRO	GPS
Date	Sample 1D	Deptii	Lab	Delizene	Toulette	ene	Xylenes	BTEX	dico	DIO	LATORO	Coordinates
Date			Lab			Circ	Aylenes	DILX				32.5379783,
10/6/2021	SP1	Surface	21,200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	5,620	1,590	-103.5545543
10/0/2021	0. 1	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	100.00 100 10
			32	10.050	10.050	10.050	10.150	10.500	120.0	110.0	110.0	32.5380014,
	SP2	Surface	23400	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	8,770	2,720	-103.5545176
		1'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.5379435,
	SP3	Surface	432	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	1,300	402	-103.5540648
		1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.5379814,
	SP4	Surface	1880	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	5,660	1,640	-103.553848
		1'	544	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.5379701,
	SP5	Surface	2160	<0.100	0.47	3.97	9.84	14.3	588	15,000	3,180	-103.5536008
		1'	1960	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.1	<10.0	
		2'	3920	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		3'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.5378508,
	SP6	Surface	1140	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	4,950.0	1,250	-103.5533570
		1'	80	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	10.9	<10.0	
												32.5376170,
	SP7	Surface	1040	<0.050	< 0.050	0.328	1.70	2.03	228	9,700	2,140	-103.5531965
		1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	346	92.6	
10/20/2021		2'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	65.3	20.8	
		3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	26.3	<10.0	
												32.5379528,
12/1/2021	H1	Surface	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.8	<10.0	-103.5539605
												32.5379393,
	H2	Surface	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.5547984
												32.5378658,
	Н3	Surface	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.5539347
												32.5374862,
	H4	Surface	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.5530815



October 08, 2021

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: BLACK & TAN

Enclosed are the results of analyses for samples received by the laboratory on 10/06/21 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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: 10/06/2021 Reported: 10/08/2021

Project Name: BLACK & TAN
Project Number: NONE GIVEN
Project Location: NOT GIVEN

ma/ka

Sampling Date: 10/06/2021

Sampling Type: Soil

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

Sample ID: SP 1 (H212792-01)

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	10/08/2021	ND	1.89	94.4	2.00	8.74	
Toluene*	<0.050	0.050	10/08/2021	ND	1.89	94.7	2.00	9.10	
Ethylbenzene*	< 0.050	0.050	10/08/2021	ND	1.91	95.6	2.00	7.93	
Total Xylenes*	<0.150	0.150	10/08/2021	ND	5.77	96.2	6.00	8.22	
Total BTEX	<0.300	0.300	10/08/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	10/07/2021	ND	416	104	400	0.00	
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	10/07/2021	ND	203	102	200	2.44	
DRO >C10-C28*	5620	10.0	10/07/2021	ND	214	107	200	1.51	
EXT DRO >C28-C36	1590	10.0	10/07/2021	ND					
Surrogate: 1-Chlorooctane	71.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	141	% 38.9-14	2						

Analyzed By me

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Fax To: (575) 393-2432

 Received:
 10/06/2021
 Sampling Date:
 10/06/2021

 Reported:
 10/08/2021
 Sampling Type:
 Soil

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

Project Location: NOT GIVEN

Sample ID: SP 1 @ 1' (H212792-02)

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	10/07/2021	ND	1.89	94.4	2.00	8.74	
Toluene*	<0.050	0.050	10/07/2021	ND	1.89	94.7	2.00	9.10	
Ethylbenzene*	<0.050	0.050	10/07/2021	ND	1.91	95.6	2.00	7.93	
Total Xylenes*	<0.150	0.150	10/07/2021	ND	5.77	96.2	6.00	8.22	
Total BTEX	<0.300	0.300	10/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/07/2021	ND	416	104	400	0.00	
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	10/07/2021	ND	203	102	200	2.44	
DRO >C10-C28*	<10.0	10.0	10/07/2021	ND	214	107	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	10/07/2021	ND					
Surrogate: 1-Chlorooctane	82.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.5	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celeg & Freene



Analytical Results For:

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

Received: 10/06/2021 Reported: 10/08/2021

Project Name: BLACK & TAN
Project Number: NONE GIVEN
Project Location: NOT GIVEN

ma/ka

Sampling Date: 10/06/2021

Sampling Type: Soil

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

Sample ID: SP 2 (H212792-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	ea By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2021	ND	1.89	94.4	2.00	8.74	
Toluene*	<0.050	0.050	10/07/2021	ND	1.89	94.7	2.00	9.10	
Ethylbenzene*	<0.050	0.050	10/07/2021	ND	1.91	95.6	2.00	7.93	
Total Xylenes*	<0.150	0.150	10/07/2021	ND	5.77	96.2	6.00	8.22	
Total BTEX	<0.300	0.300	10/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26400	16.0	10/07/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2021	ND	203	102	200	2.44	
DRO >C10-C28*	8770	10.0	10/07/2021	ND	214	107	200	1.51	
EXT DRO >C28-C36	2720	10.0	10/07/2021	ND					
Surrogate: 1-Chlorooctane	80.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	215	% 38.9-14	2						

Analyzed By: me

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Celey D. Keene



Analytical Results For:

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

Received: 10/06/2021 Reported: 10/08/2021

Project Name: BLACK & TAN
Project Number: NONE GIVEN
Project Location: NOT GIVEN

ma/ka

Sampling Date: 10/06/2021

Sampling Type: Soil

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

Sample ID: SP 2 @ 1' (H212792-04)

RTFY 8021R

True Value QC 2.00 2.00 2.00 6.00	8.74 9.10 7.93 8.22	Qualifier
2.00 2.00	9.10 7.93	
2.00	7.93	
6.00	8.22	
True Value QC	RPD	Qualifier
400	0.00	
True Value QC	RPD	Qualifier
200	2.44	
200	1.51	
	200	200 2.44

Analyzed By: me

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Celey D. Keine



Analytical Results For:

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

Received: 10/06/2021 Reported: 10/08/2021

Project Name: BLACK & TAN
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/06/2021

Sampling Type: Soil

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

Sample ID: SP 3 (H212792-05)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2021	ND	1.89	94.4	2.00	8.74	
Toluene*	<0.050	0.050	10/07/2021	ND	1.89	94.7	2.00	9.10	
Ethylbenzene*	<0.050	0.050	10/07/2021	ND	1.91	95.6	2.00	7.93	
Total Xylenes*	<0.150	0.150	10/07/2021	ND	5.77	96.2	6.00	8.22	
Total BTEX	<0.300	0.300	10/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/07/2021	ND	416	104	400	0.00	
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*	<10.0	10.0	10/07/2021	ND	203	102	200	2.44	
DRO >C10-C28*	1300	10.0	10/07/2021	ND	214	107	200	1.51	
EXT DRO >C28-C36	402	10.0	10/07/2021	ND					
Surrogate: 1-Chlorooctane	76.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	126	% 38.9-14	12						

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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:
 10/06/2021
 Sampling Date:
 10/06/2021

 Reported:
 10/08/2021
 Sampling Type:
 Soil

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

Project Location: NOT GIVEN

Sample ID: SP 3 @ 1' (H212792-06)

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	10/07/2021	ND	1.89	94.4	2.00	8.74	
Toluene*	<0.050	0.050	10/07/2021	ND	1.89	94.7	2.00	9.10	
Ethylbenzene*	<0.050	0.050	10/07/2021	ND	1.91	95.6	2.00	7.93	
Total Xylenes*	<0.150	0.150	10/07/2021	ND	5.77	96.2	6.00	8.22	
Total BTEX	<0.300	0.300	10/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/07/2021	ND	416	104	400	0.00	
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	10/08/2021	ND	203	102	200	2.44	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	214	107	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					
Surrogate: 1-Chlorooctane	84.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.0	% 38.9-14	2						

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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: 10/06/2021

Reported: 10/08/2021 Project Name: **BLACK & TAN** Project Number: NONE GIVEN Project Location: **NOT GIVEN**

Sampling Date: 10/06/2021

Sampling Type: Soil

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

Sample ID: SP 4 (H212792-07)

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	10/07/2021	ND	1.89	94.4	2.00	8.74	
Toluene*	<0.050	0.050	10/07/2021	ND	1.89	94.7	2.00	9.10	
Ethylbenzene*	<0.050	0.050	10/07/2021	ND	1.91	95.6	2.00	7.93	
Total Xylenes*	<0.150	0.150	10/07/2021	ND	5.77	96.2	6.00	8.22	
Total BTEX	<0.300	0.300	10/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	10/07/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2021	ND	203	102	200	2.44	
DRO >C10-C28*	5660	10.0	10/07/2021	ND	214	107	200	1.51	
EXT DRO >C28-C36	1640	10.0	10/07/2021	ND					
Surrogate: 1-Chlorooctane	82.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	152	% 38.9-14	2						

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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: 10/06/2021 Reported: 10/08/2021

Project Name: **BLACK & TAN** Project Number: NONE GIVEN Project Location: **NOT GIVEN**

Sampling Date: 10/06/2021

Sampling Type: Soil

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

Sample ID: SP 4 @ 1' (H212792-08)

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	10/07/2021	ND	1.89	94.4	2.00	8.74	
Toluene*	<0.050	0.050	10/07/2021	ND	1.89	94.7	2.00	9.10	
Ethylbenzene*	<0.050	0.050	10/07/2021	ND	1.91	95.6	2.00	7.93	
Total Xylenes*	<0.150	0.150	10/07/2021	ND	5.77	96.2	6.00	8.22	
Total BTEX	<0.300	0.300	10/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/07/2021	ND	416	104	400	0.00	
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	10/07/2021	ND	203	102	200	2.44	
DRO >C10-C28*	<10.0	10.0	10/07/2021	ND	214	107	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	10/07/2021	ND					
Surrogate: 1-Chlorooctane	77.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.8	% 38.9-14	2						

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10/06/2021

Soil

Analytical Results For:

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

Fax To: (575) 393-2432

Received: 10/06/2021 Sampling Date: Reported: 10/08/2021 Sampling Type:

Project Name: **BLACK & TAN** Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker NONE GIVEN

Project Location: **NOT GIVEN**

Sample ID: SP 5 (H212792-09)

BTEX 8021B	mg/kg		Analyze	ed By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/07/2021	ND	1.89	94.4	2.00	8.74	
Toluene*	0.470	0.100	10/07/2021	ND	1.89	94.7	2.00	9.10	
Ethylbenzene*	3.97	0.100	10/07/2021	ND	1.91	95.6	2.00	7.93	
Total Xylenes*	9.84	0.300	10/07/2021	ND	5.77	96.2	6.00	8.22	
Total BTEX	14.3	0.600	10/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	231 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	10/07/2021	ND	416	104	400	0.00	
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*	588	100	10/08/2021	ND	203	102	200	2.44	
DRO >C10-C28*	15000	100	10/08/2021	ND	214	107	200	1.51	
EXT DRO >C28-C36	3180	100	10/08/2021	ND					
Surrogate: 1-Chlorooctane	145 9	% 44.3-13	3						
Surrogata: 1 Chlorocetadaeana	276	9/ 38 0 1/	2						

276 % Surrogate: 1-Chlorooctadecane 38.9-142

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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: 10/06/2021 Reported: 10/08/2021

Project Name: **BLACK & TAN** Project Number: NONE GIVEN Project Location: **NOT GIVEN**

Sampling Date: 10/06/2021

Sampling Type: Soil

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

Sample ID: SP 5 @ 1' (H212792-10)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2021	ND	1.89	94.4	2.00	8.74	
Toluene*	<0.050	0.050	10/07/2021	ND	1.89	94.7	2.00	9.10	
Ethylbenzene*	<0.050	0.050	10/07/2021	ND	1.91	95.6	2.00	7.93	
Total Xylenes*	<0.150	0.150	10/07/2021	ND	5.77	96.2	6.00	8.22	
Total BTEX	<0.300	0.300	10/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	10/07/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2021	ND	203	102	200	2.44	
DRO >C10-C28*	10.1	10.0	10/07/2021	ND	214	107	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	10/07/2021	ND					
Surrogate: 1-Chlorooctane	76.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	73.7	% 38.9-14	2						

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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:
 10/06/2021
 Sampling Date:
 10/06/2021

 Reported:
 10/08/2021
 Sampling Type:
 Soil

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

Project Location: NOT GIVEN

Sample ID: SP 6 (H212792-11)

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	10/07/2021	ND	1.89	94.4	2.00	8.74	
Toluene*	<0.050	0.050	10/07/2021	ND	1.89	94.7	2.00	9.10	
Ethylbenzene*	<0.050	0.050	10/07/2021	ND	1.91	95.6	2.00	7.93	
Total Xylenes*	<0.150	0.150	10/07/2021	ND	5.77	96.2	6.00	8.22	
Total BTEX	<0.300	0.300	10/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	10/07/2021	ND	416	104	400	0.00	
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*	<10.0	10.0	10/07/2021	ND	203	102	200	2.44	
DRO >C10-C28*	4950	10.0	10/07/2021	ND	214	107	200	1.51	
EXT DRO >C28-C36	1250	10.0	10/07/2021	ND					
Surrogate: 1-Chlorooctane	81.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	131 9	% 38.9-14	2						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 10/06/2021 Sampling Date: 10/06/2021 Reported: 10/08/2021 Sampling Type: Soil

Project Name: **BLACK & TAN** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **NOT GIVEN**

Sample ID: SP 6 @ 1' (H212792-12)

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	10/07/2021	ND	1.89	94.4	2.00	8.74	
Toluene*	<0.050	0.050	10/07/2021	ND	1.89	94.7	2.00	9.10	
Ethylbenzene*	<0.050	0.050	10/07/2021	ND	1.91	95.6	2.00	7.93	
Total Xylenes*	<0.150	0.150	10/07/2021	ND	5.77	96.2	6.00	8.22	
Total BTEX	<0.300	0.300	10/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
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	10/07/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2021	ND	203	102	200	2.44	
DRO >C10-C28*	10.9	10.0	10/07/2021	ND	214	107	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	10/07/2021	ND					
Surrogate: 1-Chlorooctane	82.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	79.8	% 38.9-14	2						

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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: 10/06/2021 Reported: 10/08/2021

Project Name: BLACK & TAN
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/06/2021

Sampling Type: Soil

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

Sample ID: SP 7 (H212792-13)

BTEX 8021B	mg	/kg	Analyze	ed By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2021	ND	1.89	94.4	2.00	8.74	
Toluene*	<0.050	0.050	10/07/2021	ND	1.89	94.7	2.00	9.10	
Ethylbenzene*	0.328	0.050	10/07/2021	ND	1.91	95.6	2.00	7.93	
Total Xylenes*	1.70	0.150	10/07/2021	ND	5.77	96.2	6.00	8.22	
Total BTEX	2.03	0.300	10/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	192	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	10/07/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	228	10.0	10/07/2021	ND	223	112	200	2.36	
DRO >C10-C28*	9700	10.0	10/07/2021	ND	222	111	200	0.599	
EXT DRO >C28-C36	2140	10.0	10/07/2021	ND					
Surrogate: 1-Chlorooctane	208	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	361	% 38.9-14	2						

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Celey D. Keine



Analytical Results For:

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

Fax To: (575) 393-2432

 Received:
 10/06/2021
 Sampling Date:
 10/06/2021

 Reported:
 10/08/2021
 Sampling Type:
 Soil

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

Project Location: NOT GIVEN

Sample ID: SP 7 @ 1' (H212792-14)

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	10/07/2021	ND	1.89	94.4	2.00	8.74	
Toluene*	<0.050	0.050	10/07/2021	ND	1.89	94.7	2.00	9.10	
Ethylbenzene*	<0.050	0.050	10/07/2021	ND	1.91	95.6	2.00	7.93	
Total Xylenes*	<0.150	0.150	10/07/2021	ND	5.77	96.2	6.00	8.22	
Total BTEX	<0.300	0.300	10/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/07/2021	ND	416	104	400	0.00	
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	10/07/2021	ND	206	103	200	3.15	
DRO >C10-C28*	346	10.0	10/07/2021	ND	199	99.7	200	0.374	
EXT DRO >C28-C36	92.6	10.0	10/07/2021	ND					
Surrogate: 1-Chlorooctane	75.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	80.3	% 38.9-14	2						

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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:
 10/06/2021
 Sampling Date:
 10/06/2021

 Reported:
 10/08/2021
 Sampling Type:
 Soil

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

Project Location: NOT GIVEN

Sample ID: SP 5 @ 2' (H212792-15)

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	10/07/2021	ND	2.07	103	2.00	6.78	
Toluene*	<0.050	0.050	10/07/2021	ND	2.07	104	2.00	4.28	
Ethylbenzene*	<0.050	0.050	10/07/2021	ND	2.08	104	2.00	5.67	
Total Xylenes*	<0.150	0.150	10/07/2021	ND	6.31	105	6.00	5.65	
Total BTEX	<0.300	0.300	10/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	10/07/2021	ND	416	104	400	0.00	
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	10/08/2021	ND	215	107	200	7.96	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	213	107	200	0.584	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					
Surrogate: 1-Chlorooctane	99.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	96.9	% 38.9-14	2						

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Celey D. Keine



Analytical Results For:

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

(--,

 Received:
 10/06/2021
 Sampling Date:
 10/06/2021

 Reported:
 10/08/2021
 Sampling Type:
 Soil

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

Project Location: NOT GIVEN

Sample ID: SP 5 @ 3' (H212792-16)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2021	ND	2.17	109	2.00	5.65	
Toluene*	<0.050	0.050	10/08/2021	ND	2.12	106	2.00	5.85	
Ethylbenzene*	<0.050	0.050	10/08/2021	ND	2.07	104	2.00	5.06	
Total Xylenes*	<0.150	0.150	10/08/2021	ND	6.26	104	6.00	4.73	
Total BTEX	<0.300	0.300	10/08/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/07/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2021	ND	215	107	200	7.96	
DRO >C10-C28*	<10.0	10.0	10/08/2021	ND	213	107	200	0.584	
EXT DRO >C28-C36	<10.0	10.0	10/08/2021	ND					
Surrogate: 1-Chlorooctane	93.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	88.8	% 38.9-14	22						

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Celey D. Keine

S-06



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

Notes and Definitions

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

3-00	matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

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Time: Date: Received By: Results are emailed. Please provide Email address: Received Email address: Received Email address: Received By: RemarkS: Rema	T-C-PSE MY IE. Leasuny and Jamages. Cardinat's lability and client's exclusive remedy for any clia analyses. All claims including those for negligence and any other cause whatsoever shall be deem service. In no event shall Cardinal be liable for incidental of consequental damages, including without affiliates of successors arising out of or related to the performance of strategy becaused to the construction.	im arising whether based in contract or t ed waived unless made in writing and re ut limitation, business interruptions, loss	ort, shall be limited to the amount paic ceived by Cardinal within 30 days after of use, or loss of profits incurred by c	by the client for the completion of the applicable lient, its subsidiaries,				
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	Corrected Temp. °C		(Initials)	Thermometer ID #113		Cool Intact ☐ Yes ☐ Yes	Observed Temp. °C	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Horsela	BILL TO		SISA IVNV		
Project Manager: Brew & Bullet	- 10		71471	OIO RECOEST	1
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EASE NOTE: Liability and Damages, Cardinal's liability and clients exclusive comody for any object.					
lyses. All claims including those for negligence and any other cause whatsoever shall be deemed waked unless made in writing and received by Cardinal within 30 days after completion of the applicable vice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of portis incurred by client, its subsidiaries, liahing or successors arising out of or related to the performance of services frequently for Cardinal which have very characteristic and the performance of services frequently for Cardinal Interventions of whothers very characteristics of portis incurred by client, its subsidiaries,	made in writing and received by Cardinal within 30 days aff ress interruptions, loss of use, or loss of profits incurred by heather such claim is board uson and of the above that	and by the client for the left completion of the applicable client, its subsidiaries,			
Date: Received By:	00111	Verbal Result: ☐ Yes	□ No Add'I Phone #:	ne #:	
elinquished By: Date: Received By	mora Melake	REMARKS: PROSCUENCY 13 19 CAN	chercy 13	ognowith.com	
Time:					4 M
Observed Temp. °C 4 3	Sample Condition CHECKED BY: Cool Intact (Initials)	Turnaround Time: S	Standard H Bac	Bacteria (only) Sample Condition)
ampler - UPS - Bus - Other: Corrected Temp. °C 3,8 c	is Pres	Thermometer ID #113 Correction Factor Name —	° -	Yes Yes Corrected Temp. °C	



October 22, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: BLACK & TAN

Enclosed are the results of analyses for samples received by the laboratory on 10/20/21 9:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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



10/20/2021

Soil

Analytical Results For:

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

Fax To: (575) 393-2432

Sampling Date:

Sampling Type:

Received: 10/20/2021 Reported: 10/22/2021

Project Name: BLACK & TAN Sampling Condition: Cool & Intact
Project Number: BLACK & TAN 27 Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: SP 7 @ 2' (H212944-01)

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	10/21/2021	ND	2.12	106	2.00	0.572	
Toluene*	< 0.050	0.050	10/21/2021	ND	2.08	104	2.00	0.534	
Ethylbenzene*	< 0.050	0.050	10/21/2021	ND	2.03	102	2.00	0.177	
Total Xylenes*	< 0.150	0.150	10/21/2021	ND	6.10	102	6.00	0.295	
Total BTEX	<0.300	0.300	10/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
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	10/20/2021	ND	207	104	200	3.45	
DRO >C10-C28*	65.3	10.0	10/20/2021	ND	194	97.0	200	3.04	
EXT DRO >C28-C36	20.8	10.0	10/20/2021	ND					
Surrogate: 1-Chlorooctane	71.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	70.8	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

 Received:
 10/20/2021
 Sampling Date:
 10/20/2021

 Reported:
 10/22/2021
 Sampling Type:
 Soil

Project Name: BLACK & TAN Sampling Condition: Cool & Intact
Project Number: BLACK & TAN 27 Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: SP 7 @ 3' (H212944-02)

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	10/21/2021	ND	2.12	106	2.00	0.572	
Toluene*	<0.050	0.050	10/21/2021	ND	2.08	104	2.00	0.534	
Ethylbenzene*	<0.050	0.050	10/21/2021	ND	2.03	102	2.00	0.177	
Total Xylenes*	<0.150	0.150	10/21/2021	ND	6.10	102	6.00	0.295	
Total BTEX	<0.300	0.300	10/21/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
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	10/20/2021	ND	207	104	200	3.45	
DRO >C10-C28*	26.3	10.0	10/20/2021	ND	194	97.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	10/20/2021	ND					
Surrogate: 1-Chlorooctane	90.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	88.4	% 38.9-14	2						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Apochal	BILL TO	ANALYSIS DEOLIEST
Project Manager: Bruce Bullium	- 1	
Address:	Company:	
City: Holdes State: NIX Zip: 88 240	Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name:	State: Zip:	-
Project Location: Black 3 Tun 27	#	
Sampler Name: Che () 10 Sc 10/11 dr.	Fax #:	
VATER		
	UDGE THER: CID/BASE) COO THER:	
1- (0	1000000 X V	
	1 10-20 8:22 X X	
EASE 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 alyses. 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 amount paid by the client for the paid by the client for the amount paid by the client for	ized or tort, shall be limited to the amount paid by the client for the amount and received by Cardinal within 30 days after completion of the amount and	
listes 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 ablive stated reasons or otherwise.	ns, loss of use, or loss of profils incurred by client, its subsidiaries, aim is base⊄ upon any of the ab⁻ve stated reasons or otherwise.	
10-2081	All Results are emailed. Please provide Email address:	□ No Add'I Phone #: ase provide Email address:
	REMARKS: Email	Dearry Baker
ampler - UPS - Bus - Other: Corrected Temp. °C 4.6 Cool Infact Coo	dition CHECKED BY: Turnaround Time: Standard (Initials) Thermometer ID #113 No Correction Factor Name 1	Bacteria (Cool Inta
† "Cardinal cannot accept verbal ch	ges. Please email changes to cele∮.keene@	allabsnm.com

Page 5 of 5



December 02, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: BLACK & TAN 301H

Enclosed are the results of analyses for samples received by the laboratory on 12/01/21 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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:
 12/01/2021
 Sampling Date:
 12/01/2021

 Reported:
 12/02/2021
 Sampling Type:
 Soil

Project Name: BLACK & TAN 301H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: H 1 (H213439-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2021	ND	2.01	101	2.00	7.44	
Toluene*	<0.050	0.050	12/02/2021	ND	2.06	103	2.00	9.64	
Ethylbenzene*	<0.050	0.050	12/02/2021	ND	2.06	103	2.00	11.3	
Total Xylenes*	<0.150	0.150	12/02/2021	ND	6.30	105	6.00	10.6	
Total BTEX	<0.300	0.300	12/02/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/02/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2021	ND	212	106	200	3.90	
DRO >C10-C28*	11.8	10.0	12/02/2021	ND	222	111	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	12/02/2021	ND					
Surrogate: 1-Chlorooctane	119	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	121	% 38.9-14	2						

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Celeg & Freene



Analytical Results For:

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

Received: 12/01/2021 Sampling Date: 12/01/2021

Reported: 12/02/2021 Sampling Type: Soil

Project Name: BLACK & TAN 301H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC/

Project Location: NOT GIVEN

ma/ka

Sample ID: H 2 (H213439-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2021	ND	2.01	101	2.00	7.44	
Toluene*	<0.050	0.050	12/02/2021	ND	2.06	103	2.00	9.64	
Ethylbenzene*	<0.050	0.050	12/02/2021	ND	2.06	103	2.00	11.3	
Total Xylenes*	<0.150	0.150	12/02/2021	ND	6.30	105	6.00	10.6	
Total BTEX	<0.300	0.300	12/02/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/02/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2021	ND	212	106	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/02/2021	ND	222	111	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	12/02/2021	ND					
Surrogate: 1-Chlorooctane	105	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	106	% 38.9-14	2						

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Celey D. Keine



Analytical Results For:

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

Received: 12/01/2021 Sampling Date: 12/01/2021

Reported: 12/02/2021 Sampling Type: Soil

Project Name: BLACK & TAN 301H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: H 3 (H213439-03)

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	12/02/2021	ND	2.01	101	2.00	7.44	
Toluene*	<0.050	0.050	12/02/2021	ND	2.06	103	2.00	9.64	
Ethylbenzene*	< 0.050	0.050	12/02/2021	ND	2.06	103	2.00	11.3	
Total Xylenes*	<0.150	0.150	12/02/2021	ND	6.30	105	6.00	10.6	
Total BTEX	<0.300	0.300	12/02/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/02/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2021	ND	212	106	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/02/2021	ND	222	111	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	12/02/2021	ND					
Surrogate: 1-Chlorooctane	124	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	124	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 12/01/2021 Sampling Date: 12/01/2021

Reported: 12/02/2021 Sampling Type: Soil

Project Name: BLACK & TAN 301H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: H 4 (H213439-04)

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	12/02/2021	ND	2.01	101	2.00	7.44	
Toluene*	<0.050	0.050	12/02/2021	ND	2.06	103	2.00	9.64	
Ethylbenzene*	<0.050	0.050	12/02/2021	ND	2.06	103	2.00	11.3	
Total Xylenes*	<0.150	0.150	12/02/2021	ND	6.30	105	6.00	10.6	
Total BTEX	<0.300	0.300	12/02/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/02/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2021	ND	212	106	200	3.90	
DRO >C10-C28*	<10.0	10.0	12/02/2021	ND	222	111	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	12/02/2021	ND					
Surrogate: 1-Chlorooctane	97.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	97.0	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



Notes and Definitions

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 7 of 7

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 64833

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	64833
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	12/29/2021