

303 Veterans Airpark Lane Midland, TX 79705

Closure Report

June 9, 2022

Re: Black and Tan 301H Case: nAPP2125731884

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.

The release area was excavated in accordance with the OCD approved remediation plan to depths of 1 to 3 feet. On 3/24/2022 final 5-point composite bottom and wall samples were collected in accordance with the OCD approved remediation plan and all samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory analysis for B4 were above reclamation standards for chloride. B4 was further excavated to 3 feet. On 4/20/2022 final 5-point composite bottom and wall samples were collected in accordance with the OCD approved remediation plan and submitted to a commercial laboratory for analysis for B4 were above reclamation standards for chloride. B4 was further excavated to 3 feet. On 4/20/2022 final 5-point composite bottom and wall samples were collected in accordance with the OCD approved remediation plan and submitted to a commercial laboratory for analysis. All excavated soil was hauled to an OCD approved disposal facility. The pasture area was backfilled with clean imported topsoil to ground surface and contoured to the surrounding area. The pad area was backfilled with clean imported caliche and the pad restored. The pasture will be seeded in accordance with the surface landowner guidelines.

Apache Corporation has completed remediation the release to below table one standards and respectfully request that event nAPP2125731884 be closed.

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

Submitted by;

Bruce Baker

Environmental Technician larry.baker@apachecorp.com Cell# 432-215-2284

Oil Conservation Division

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

 \checkmark Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

 Printed Name:
 Larry Baker
 Title:
 Environmental Tech Sr. Staff

 Signature:
 Larry Baker
 Date:
 6/9/2022

 email:
 larry.baker@apachecorp.com
 Telephone:
 432-215-2284

 OCD Only Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Title: Environmental Specialist A

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From: OCDOnline@state.nm.us < OCDOnline@state.nm.us > Received by OCD: 0/13/2022 3:29:47 PM Sent: Wednesday, December 29, 2021 12:10 PM To: Baker, Larry <Larry.Baker@apachecorp.com Subject: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 64833

To whom it may concern (c/o Larry Baker for APACHE CORPORATION),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2125731884, with the following conditions:

None

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Chad Hensley Environmental Science & Specialist 575-703-1723 <u>Chad.Hensley@state.nm.us</u>

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505 *Released to Imaging: 6/14/2022 11:33:14 AM* Page 3 of 63

Received by CONServation Division (OCD) has approved the application, Application ID: 64833



Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us> To OBaker, Larry

Mr. Baker,

Extension to 04/29/2022 is approved.

NOTE: The OCD requires a copy of all correspondence relative to remedial projects be included in all proposal and/or final closure reports. Correspondence required to be included in reports may include, but not necessarily limited to, extension requests, liner inspection notifications, sample event notifications, spill/release/fire notifications, and variance requests. This will allow for notifications and requests to become a documented part of the incident file.

Chad Hensley • Environmental Science & Specialist Environmental Bureau EMNRD - Oil Conservation Division 811 First St. | Artesia, NM 88210 Office: 575.748.1283 | Cell: 575-703-1723 chad.hensley@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Baker, Larry <<u>Larry.Baker@apachecorp.com</u>> Sent: Tuesday, March 22, 2022 1:03 PM To: Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>> Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 64833

Mr. Hensley,

Apache Corporation would like to begin final sampling in accordance with the approve remediation plan at the Black and Tan 301H (nAPP2125731884) on Thursday 3/24/2022 at 1:30 PM MST. Also we had issue getting the AFE approved internally and would like to request a 30 day extension to complete the remediation and submit the closure report. Please let me know if you have any questions or wish to discuss. Thanks and have a good day.

BRUCE BAKER

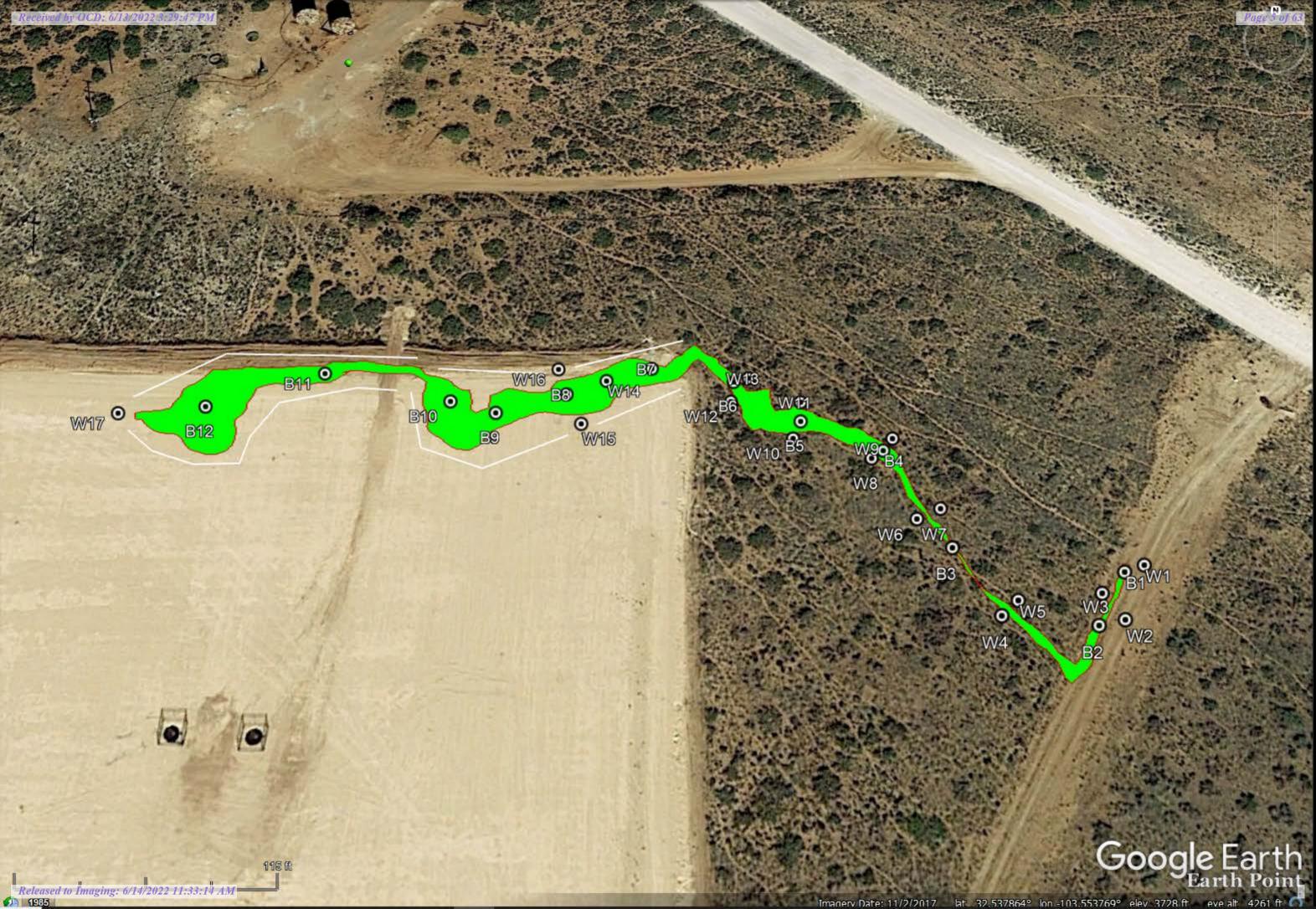
ENVIRONMENTAL TECHNICIAN SR direct 432-818-1654 | Cell 432-215-2284

APACHE CORPORATION 303 Veterans Airpark Lane Midland, TX 79705 ApacheCorp.com | LinkedIn | Facebook | Twitter | StockTwits | YouTube

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← Reply	(5) Reply All	→ Forward	
		Tue 3/22/2022	4:16 PN



Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenze	Total	Total	GRO	DRO	EXT DRO
Date			Lab			ne	Xylenes	BTEX			
3/24/2022	B1	3'	80	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	B2	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.1	19.1
3/24/2022	B3	3'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	B4	1'	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	177	37.1
4/20/2022	B4	3'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	B5	3'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	B6	3'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/25/2022	B7	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/25/2022	B8	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/25/2022	B9	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/25/2022	B10	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
4/20/2022	B11	1'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.9	<10.0
4/20/2022	B12	1'	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.0	<10.0
3/24/2022	W1	0-3'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W2	0-1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W3	0-1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.6	<10.0
3/24/2022	W4	0-3'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W5	0-3'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.5	<10.0
3/24/2022	W6	0-3'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W7	0-3'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.0	<10.0
3/24/2022	W8	0-1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W9	0-1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W10	0-3'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W11	0-3'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W12	0-3'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.9	<10.0
3/24/2022	W13	0-3'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/25/2022	W14	0-1'	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.6	<10.0
3/25/2022	W15	0-1'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/25/2022	W16	0-1'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
4/20/2022	W17	0-1'	288.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0

Black & Tan 301 H Law Country Apceches Bottoms GBB Points. -103.5529406 03' 32.5377112 BI -103.5530630 32.5376063 B2 01' -103.5532638 B3 @3' 32.5377352 -103.5533624 32.5378861 By OI' -103. 5535039 B5 @3' 32.5379424 Blo O3' -103 5536052 32.5380009 Brol 32.5380153 -103.5537671 32.53\$79746 -103.5539311 BS @1' -103.5546641 BG OI' 32.5379658 -103.5541299 32, 5379740 BIO @1'

Hpache Place \$ Teen 3014 Les Country walls Gps Points 32.5376422 -103.552951 WI BOS 0-3' 32.5376168 -103.5530117 BGS O-1' 62 w3 Box 0-1' 32.5376317 -103.5530238 W4 B65 0-3' 32-5376309 -103.5531881 W5 BGS 0-3' 32.5376447 -103.5531790 W4 BGS 0-3' 32.5377739 -103.5532873 (N) BCS 0-3' 32.55377852 -103.5532746 -103.5533570 W8 BGS 0-1' 32.5378867 -103.5533520 32.5329022 N9 BGS O-1' 32.5379378 -103.5535197 0-3' NOLO BUS 52.5379528 -103.5535036 WIL BOS O-3' 1012 BGS 0-3' 32.5380331 -103.55336494 32.5380464 -109.5536427 W13 BGS 0-3' 32, 5379579 -103.5539669 WH BLAS 0-1' -103.5539062 WIS BESS 0-1' 32.5379859 WILL BOS O-1' 32.5279958 -103.5539478



March 29, 2022

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 03/24/22 16:51.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: B 1 @ 3' (H221173-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/27/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/27/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/27/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/27/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/27/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	80.0	16.0	03/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	92.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	98.6	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: B 2 @ 1' (H221173-02)

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	03/27/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/27/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/27/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/27/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/27/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	32.0	16.0	03/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	44.1	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	19.1	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	97.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	103	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: B 3 @ 3' (H221173-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/27/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/27/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/27/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/27/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	64.0	16.0	03/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	102	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	109	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: B 4 @ 1' (H221173-04)

BTEX 8021B	mg/	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/27/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/27/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/27/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/27/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	224	16.0	03/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	177	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	37.1	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	101	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	110 9	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: B 5 @ 3' (H221173-05)

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	03/27/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/27/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/27/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/27/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/27/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	80.0	16.0	03/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	105	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	112 9	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: B 6 @ 3' (H221173-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2022	ND	1.79	89.3	2.00	2.77	
Toluene*	<0.050	0.050	03/28/2022	ND	2.00	100	2.00	3.08	
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.11	106	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.57	109	6.00	2.55	
Total BTEX	<0.300	0.300	03/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	80.0	16.0	03/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	106	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	113 9	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Д oratories J

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 17 of 63



March 31, 2022

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 03/25/22 16:40.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	03/25/2022	Sampling Date:	03/25/2022
Reported:	03/31/2022	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: B 7 @ 1' (H221206-01)

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	03/30/2022	ND	2.03	102	2.00	7.29	
Toluene*	<0.050	0.050	03/30/2022	ND	2.00	100	2.00	8.40	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.99	99.6	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.13	102	6.00	8.33	
Total BTEX	<0.300	0.300	03/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	32.0	16.0	03/30/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2022	ND	223	112	200	1.62	
DRO >C10-C28*	<10.0	10.0	03/29/2022	ND	241	120	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	03/29/2022	ND					
Surrogate: 1-Chlorooctane	91.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	95.6	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/25/2022	Sampling Date:	03/25/2022
Reported:	03/31/2022	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: B 8 @ 1' (H221206-02)

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	03/30/2022	ND	2.03	102	2.00	7.29	
Toluene*	<0.050	0.050	03/30/2022	ND	2.00	100	2.00	8.40	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.99	99.6	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.13	102	6.00	8.33	
Total BTEX	<0.300	0.300	03/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	48.0	16.0	03/30/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2022	ND	223	112	200	1.62	
DRO >C10-C28*	<10.0	10.0	03/29/2022	ND	241	120	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	03/29/2022	ND					
Surrogate: 1-Chlorooctane	88.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.2	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/25/2022	Sampling Date:	03/25/2022
Reported:	03/31/2022	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: B 9 @ 1' (H221206-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2022	ND	2.03	102	2.00	7.29	
Toluene*	<0.050	0.050	03/30/2022	ND	2.00	100	2.00	8.40	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.99	99.6	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.13	102	6.00	8.33	
Total BTEX	<0.300	0.300	03/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	48.0	16.0	03/30/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2022	ND	223	112	200	1.62	
DRO >C10-C28*	<10.0	10.0	03/29/2022	ND	241	120	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	03/29/2022	ND					
Surrogate: 1-Chlorooctane	95.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	104	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/25/2022	Sampling Date:	03/25/2022
Reported:	03/31/2022	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: B 10 @ 1' (H221206-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2022	ND	2.03	102	2.00	7.29	
Toluene*	<0.050	0.050	03/30/2022	ND	2.00	100	2.00	8.40	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.99	99.6	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.13	102	6.00	8.33	
Total BTEX	<0.300	0.300	03/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	32.0	16.0	03/30/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2022	ND	223	112	200	1.62	
DRO >C10-C28*	<10.0	10.0	03/29/2022	ND	241	120	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	03/29/2022	ND					
Surrogate: 1-Chlorooctane	97.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	106	% 59.5-14							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	ny claim arising whether based in contract or tort, shall be limited to the amount paid by the of Jeenned waived unsess made in writing and received by Cardinal within 30 days after complete without limitation, business interruptions, loss of use, or loss of profits incurred by client, its su	lient for the applicable ubsidiaries,
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March 29, 2022

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 03/24/22 16:51.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: W 1 BGS 0-3' (H221172-01)

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	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	48.0	16.0	03/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	185	92.4	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	177	88.4	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	75.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	74.2	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: W 2 BGS 0-1' (H221172-02)

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	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	32.0	16.0	03/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	185	92.4	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	177	88.4	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	77.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	76.3	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: W 3 BGS 0-1' (H221172-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	16.0	16.0	03/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	185	92.4	200	6.75	
DRO >C10-C28*	17.6	10.0	03/28/2022	ND	177	88.4	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	88.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.1	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: W 4 BGS 0-3' (H221172-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	16.0	16.0	03/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	89.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	92.9	% 59.5-14	2						

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: W 5 BGS 0-3' (H221172-05)

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	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	32.0	16.0	03/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	15.5	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	93.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101	% 59.5-14	2						

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: W 6 BGS 0-3' (H221172-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	<16.0	16.0	03/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	94.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	99.2	% 59.5-14	2						

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: W 7 BGS 0-3' (H221172-07)

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	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	48.0	16.0	03/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	12.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	96.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	103	% 59.5-14	2						

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: W 8 BGS 0-1' (H221172-08)

BTEX 8021B	mg,	′kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	32.0	16.0	03/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	90.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.6	% 59.5-14	2						

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: W 9 BGS 0-1' (H221172-09)

BTEX 8021B	mg	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	48.0	16.0	03/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	99.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	104	% 59.5-14	2						

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: W 10 BGS 0-3' (H221172-10)

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	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	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	80.0	16.0	03/28/2022	ND	432	108	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	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	95.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101 9	59.5-14	2						

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: W 11 BGS 0-3' (H221172-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	32.0	16.0	03/28/2022	ND	432	108	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	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	93.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	98.7	% 59.5-14	2						

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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: W 12 BGS 0-3' (H221172-12)

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	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150 0.150		03/26/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/26/2022	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	96.0	16.0	03/28/2022	ND	432	108	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	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	44.9	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	urrogate: 1-Chlorooctane 91.3 % 66.9-130		6						
Surrogate: 1-Chlorooctadecane	96.1	% 59.5-14	2						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: W 13 BGS 0-3' (H221172-13)

BTEX 8021B	mg/	′kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150 0.150		03/26/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 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	64.0	16.0	03/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					
Surrogate: 1-Chlorooctane	urrogate: 1-Chlorooctane 96.2 % 66.9-130		6						
Surrogate: 1-Chlorooctadecane	100 9	% 59.5-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 16 of 17

Received by OCD: 6/13/2022 3:29:47 PM

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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Sample Condition CHECKED BY: Turnaround Time: Cool Intact (Initials) Pres Yes Yes Correction Factor -0.5°C Correction Factor -0.5°C	Verbal Result: All Results are el REMARKS:	If and client's exclusive remedy for any client ansing whether based in contract or total, shall be limited to the amount paid by the client for the any other cause whatsoever shall be deemed waived unless meake in writing and received by Cardinal within 30 days after completion of the applicable for consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, formance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Anter Sland	D	X 14.51X 15 1	GROUN WASTE SOIL OIL SLUDG OTHER ACID/B/ ICE / CC OTHER DATE	IDWATE WATER E : ASE: DOL :	R	MATRIX PRESERV. SAMPLING	Phone #:	State: Zip:	City:	Address:	Attn:	Company:	P.O. #:	BILL TO
Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C 13 5°C I Nc No Corrected Temp. °C	□ Yes □ No Add'I Phone #: mailed. Please provide Email address:			*		*	Ex	TEX						4				ANALYSIS REQUEST



March 31, 2022

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 03/25/22 16:40.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	03/25/2022	Sampling Date:	03/25/2022
Reported:	03/31/2022	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: W 14 BGS 0-1' (H221207-01)

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	03/30/2022	ND	2.03	102	2.00	7.29	
Toluene*	<0.050	0.050	03/30/2022	ND	2.00	100	2.00	8.40	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.99	99.6	2.00	7.91	
Total Xylenes*	es* <0.150 0.150		03/30/2022	ND	6.13	102	6.00	8.33	
Total BTEX	<0.300	0.300	03/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	Analyzed By: GM								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/30/2022	ND	416	104	400	3.77	
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	03/29/2022	ND	223	112	200	1.62	
DRO >C10-C28*	22.6	10.0	03/29/2022	ND	241	120	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	03/29/2022	ND					
Surrogate: 1-Chlorooctane	urrogate: 1-Chlorooctane 85.0 % 66.9-130		6						
Surrogate: 1-Chlorooctadecane	91.8	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/25/2022	Sampling Date:	03/25/2022
Reported:	03/31/2022	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: W 15 BGS 0-1' (H221207-02)

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	03/30/2022	ND	2.03	102	2.00	7.29	
Toluene*	<0.050	0.050	03/30/2022	ND	2.00	100	2.00	8.40	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.99	99.6	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.13	102	6.00	8.33	
Total BTEX	<0.300	0.300	03/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 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	144	16.0	03/30/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2022	ND	223	112	200	1.62	
DRO >C10-C28*	<10.0	10.0	03/29/2022	ND	241	120	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	03/29/2022	ND					
Surrogate: 1-Chlorooctane	91.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	99.7	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/25/2022	Sampling Date:	03/25/2022
Reported:	03/31/2022	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: W 16 BGS 0-1' (H221207-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2022	ND	2.03	102	2.00	7.29	
Toluene*	<0.050	0.050	03/30/2022	ND	2.00	100	2.00	8.40	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.99	99.6	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.13	102	6.00	8.33	
Total BTEX	<0.300	0.300	03/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	96.0	16.0	03/30/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2022	ND	223	112	200	1.62	
DRO >C10-C28*	<10.0	10.0	03/29/2022	ND	241	120	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	03/29/2022	ND					
Surrogate: 1-Chlorooctane	92.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101	% 59.5-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by OCD: 6/13/2022 3:29:47 PM

Company Name:	BILL TO	ANALYSIS REQUEST
Project Manager: Apricial R	P.O. #:	
Address:	Company:	
City: State: Zip:	Attn:	
ne #:	Address:	
Project #: Project Owner:	City:	
ame	State: Zip:	
Project Location: Rhuch & Tow 3014	H Phone #:	
~	Fax #:	
	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D. (G)RAB OR (C)OMF # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	GX+TP4 RTGX
1 WH 3050-1'		
3 W/W BGS 0-1, 01	/ your star they want	
Dama	armages. 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 hope 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 application of the	able
	dinal, regardless of whether such claim is based upon any of the adove sated reasons or otherway. Received By: Verbal Result:	□ Yes □ No Add'I Phone #:
Relinquished By:	MI II	All Results are emailed. Please provide Email address. REMARKS:
Delivered By: (Circle One) Observed Temp. °C 5.6	Sample Condition CHECKED BY: Turnaround Time:	Standard Rush
Sampler - UPS - Bus - Other: Corrected Temp. °C 5/	es Yes Thermometer ID	#113 Tes Tes Corrected Temp. °C





April 21, 2022

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 04/20/22 16:33.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	04/20/2022	Sampling Date:	04/20/2022
Reported:	04/21/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: B 11 @ 1' (H221633-01)

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	04/21/2022	ND	1.89	94.4	2.00	12.4	
Toluene*	<0.050	0.050	04/21/2022	ND	1.89	94.4	2.00	13.1	
Ethylbenzene*	<0.050	0.050	04/21/2022	ND	1.81	90.3	2.00	13.2	
Total Xylenes*	<0.150	0.150	04/21/2022	ND	5.63	93.8	6.00	13.6	
Total BTEX	<0.300	0.300	04/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	80.0	16.0	04/21/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/21/2022	ND	208	104	200	3.11	
DRO >C10-C28*	10.9	10.0	04/21/2022	ND	186	93.1	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	04/21/2022	ND					
Surrogate: 1-Chlorooctane	88.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.4	% 59.5-14	•						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/20/2022	Sampling Date:	04/20/2022
Reported:	04/21/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: B 12 @ 1' (H221633-02)

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	04/21/2022	ND	1.89	94.4	2.00	12.4	
Toluene*	<0.050	0.050	04/21/2022	ND	1.89	94.4	2.00	13.1	
Ethylbenzene*	<0.050	0.050	04/21/2022	ND	1.81	90.3	2.00	13.2	
Total Xylenes*	<0.150	0.150	04/21/2022	ND	5.63	93.8	6.00	13.6	
Total BTEX	<0.300	0.300	04/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	176	16.0	04/21/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/21/2022	ND	208	104	200	3.11	
DRO >C10-C28*	43.0	10.0	04/21/2022	ND	186	93.1	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	04/21/2022	ND					
Surrogate: 1-Chlorooctane	86.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.1	% 59.5-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/20/2022	Sampling Date:	04/20/2022
Reported:	04/21/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: W 17 BGS 0-1' (H221633-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result Reporting Limi		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/21/2022	ND	1.89	94.4	2.00	12.4	
Toluene*	<0.050	0.050	04/21/2022	ND	1.89	94.4	2.00	13.1	
Ethylbenzene*	<0.050	0.050	04/21/2022	ND	1.81	90.3	2.00	13.2	
Total Xylenes*	<0.150	0.150	04/21/2022	ND	5.63	93.8	6.00	13.6	
Total BTEX	<0.300	0.300	04/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	288	16.0	04/21/2022 ND		400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/21/2022	ND	208	104	200	3.11	
DRO >C10-C28*	<10.0	10.0	04/21/2022	ND	186	93.1	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	04/21/2022	ND					
Surrogate: 1-Chlorooctane	83.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.2	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/20/2022	Sampling Date:	04/20/2022
Reported:	04/21/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: B 4 @ 3' (H221633-04)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					Qualifier
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	
Benzene*	<0.050	0.050	04/21/2022	ND	1.89	94.4	2.00	12.4	
Toluene*	<0.050	0.050	04/21/2022	ND	1.89	94.4	2.00	13.1	
Ethylbenzene*	<0.050	0.050	04/21/2022	ND	1.81	90.3	2.00	13.2	
Total Xylenes*	<0.150	0.150	04/21/2022	ND	5.63	93.8	6.00	13.6	
Total BTEX	<0.300	0.300	04/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	16.0	16.0	04/21/2022	ND 400		100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/21/2022	ND	208	104	200	3.11	
DRO >C10-C28*	<10.0	10.0	04/21/2022	ND	186	93.1	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	04/21/2022	ND					
Surrogate: 1-Chlorooctane	93.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.0	% 59.5-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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

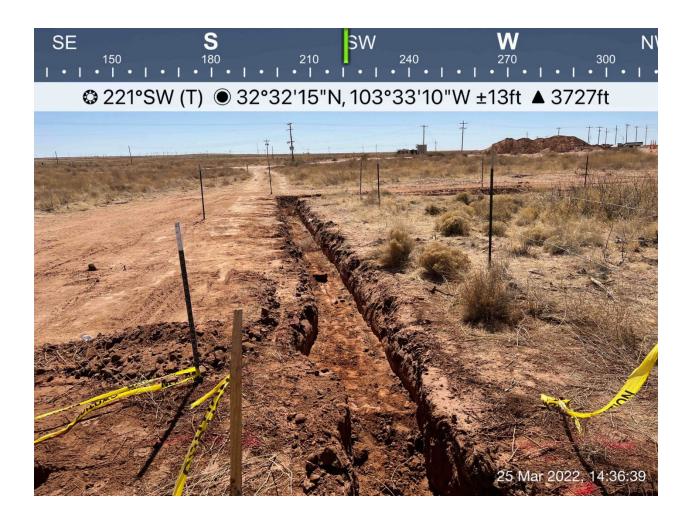
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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Recei	ived by O			3:29:4													ŀ	Page 54 of	° 63
	ner: Correct	Time:	Time U ad	service. In one event shall Cardinal be labely or incidental or consequential damages shall be deemed waived unless made in writing and reviewed by Cardinal whith 30 days after completion of the service. In one event shall Cardinal be labely or incidental or consequential damages, including whithing minimation, business interruptions, loss of use, or loss of profits incurred by client, its substances of services hereunder by Cardinal, regardless of whether such claim is based upon any of the citore store stores or, or otherwise.	NOTE: Liability and Damages. Cardin		1201	G)RAE # CONT GROUN	Lab I.D. Sample I.D. B OR (C)OM TAINERS NDWATER WATER	FOR LAB USE ONLY	Sampler Name: Just Onur the Jon.		Project #: Project Owner	Phone #:	N I V	Project Manager: Bruce Bulk	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: 10	Laboratories	
Contrained cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	n CHECKED BY: Turnaround Time: Standard ☐ Bacteria (only) Sample Condition (Initials) Themometer ID #113 Correction Factor Nease - ○		All Results are emailed. Please provide Email address:	shall be deemed waived unless made in writing and received by Contral within 30 days after completion of the being for the including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries applicable inder by Cardinal writing and the store days after completion of the applicable inder by Cardinal writing and the store store track of the subsidiaries of whether such claim is based upon any of the store claims are otherwise.		t t t this of the second secon		OTHER ACID/BA ICE / CC OTHER DATE TIME CL Ext	ASE: DOL	PRESERV. SAMPLING	#	State: Zip:	Address:	Attn:	Company:	P.O. # ANALYSIS REQUEST		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	

















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

District IV 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

APACHE CORPORATION	OGRID: 873 Action Number:
Midland, TX 79705	116545
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Closure Report Approved.	6/14/2022

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Action 116545