



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. 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

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos 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)
- 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.

Closure Approved by: Jennifer Nobui Date: 06/14/2022
 Printed Name: Jennifer Nobui Title: Environmental Specialist A

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Received by OCD: 6/13/2022 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

Chad.Hensley@state.nm.us

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

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

RE: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 64833



Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>

To  Baker, Larry

 Reply	 Reply All	 Forward	
--	--	--	--

Tue 3/22/2022 4:16 PM

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 <Larry.Baker@apachecorp.com>**Sent:** Tuesday, March 22, 2022 1:03 PM**To:** Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>**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

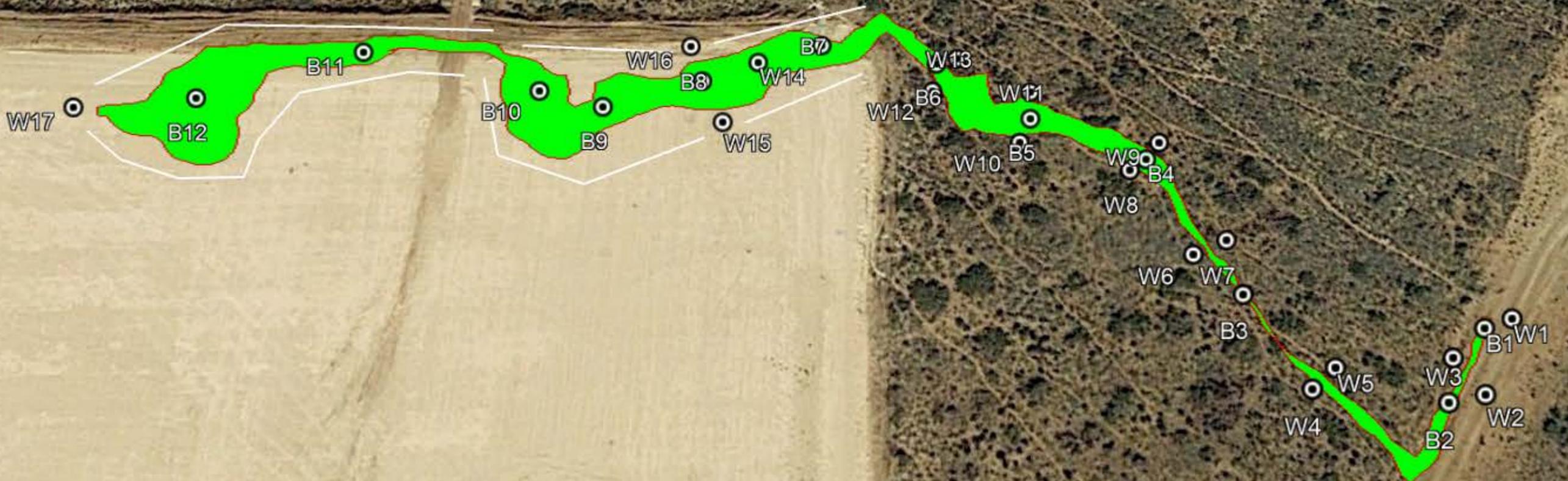
direct 432-818-1654 | Cell 432-215-2284

APACHE CORPORATION

303 Veterans Airpark Lane

Midland, TX 79705

ApacheCorp.com | [LinkedIn](#) | [Facebook](#) | [Twitter](#) | [StockTwits](#) | [YouTube](#)*Released to Imaging: 6/14/2022 11:33:14 AM*



Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
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

Apaches Blau & Tan 301 H Lee County
Bottoms GFB Points.

B1	@ 3'	32.5377112	-103.5529406
B2	@ 1'	32.5376063	-103.5530630
B3	@ 3'	32.5377352	-103.5532638
B4	@ 1'	32.5378861	-103.5533624
B5	@ 3'	32.5379424	-103.5535039
B6	@ 3'	32.5380009	-103.5536052
B7	@ 1'	32.5380153	-103.5537671
B8	@ 1'	32.53879746	-103.5539371
B9	@ 1'	32.5379658	-103.5540641
B10	@ 1'	32.5379740	-103.5541299

Apache Black & Tan 301H Lee County

walls Gps Points

W1	BGS	0-3'	32.5376422	-103.5529551
W2	BGS	0-1'	32.5376168	-103.5530117
W3	BGS	0-1'	32.5376317	-103.5530238
W4	BGS	0-3'	32.5376309	-103.5531881
W5	BGS	0-3'	32.5376447	-103.5531790
W6	BGS	0-3'	32.5377739	-103.5532873
W7	BGS	0-3'	32.5377852	-103.5532746
W8	BGS	0-1'	32.5378867	-103.5533570
W9	BGS	0-1'	32.5379022	-103.5533520
W10	BGS	0-3'	32.5379378 32.5379378	-103.5535197
W11	BGS	0-3'	32.5379528	-103.5535036
W12	BGS	0-3'	32.5380331	-103.55336494
W13	BGS	0-3'	32.5380464	-103.5536427
W14	BGS	0-1'	32.5379579	-103.5539669
W15	BGS	0-1'	32.5379859	-103.5539062
W16	BGS	0-1'	32.5379958	-103.5539478



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

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

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	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	03/28/2022	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.6 % 59.5-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

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	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	03/28/2022	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-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	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	03/28/2022	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, 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. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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*	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/28/2022	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	03/28/2022	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/28/2022	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	03/28/2022	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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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 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apurba</u> Project Manager: <u>Renee B.</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: _____ Project Location: <u>Study 3 Tom 2014</u> Sampler Name: <u>Joe Quimper</u> FOR LAB USE ONLY		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
BILL TO			
ANALYSIS REQUEST			
Lab I.D.	Sample I.D.	MATRIX	SAMPLING
<u>A221173</u>			
1	B1 @ 3'	(G)RAB OR (C)OMP. # CONTAINERS	DATE TIME
2	B2 @ 1'	GROUNDWATER	3/24 3:45
3	B3 @ 1'	WASTEWATER	X
4	B4 @ 1'	SOIL	X
5	B5 @ 3'	OIL	X
6	B6 @ 3'	SLUDGE	X
		OTHER:	
		ACID/BASE:	
		ICE / COOL	
		OTHER:	
		PRESERV:	

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Relinquished By: [Signature] Date: 3/24/2014 Received By: [Signature] Date: 1/6/14

Delivered By: (Circle One) UPS Bus Other: _____
 Observed Temp. °C: 2.46 Corrected Temp. °C: 2.18
 Sample Condition Cool Intact Yes No

Checked By: [Signature] Initials: [Signature]

Turnaround Time: _____ Standard Rush
 Thermometer ID #113 Correction Factor -0.5°C Bacteria (only) Sample Condition Cool Intact Yes No

Remarks: _____

Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____



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

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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*	<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 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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*	<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 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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*	<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 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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*	<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 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apex
 Project Manager: Bruce R.
 Address: _____
 City: _____ State: _____ Zip: _____
 P.O. #: _____ Company: _____
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Project #: _____ Project Owner: _____
 Project Name: _____
 Project Location: Black & Tom 3014
 Sampler Name: Joe Dussek
 Fax #: _____ Phone #: _____

Lab I.D.	Sample I.D.	FOR LAB USE ONLY		MATRIX	PRESERV	SAMPLING	DATE	TIME	REMARKS
		(G)RAB OR (C)OMP.	# CONTAINERS						
<u>H2A206</u>	<u>B7 @1'</u>	<input type="checkbox"/>	<u>1</u>	<input checked="" type="checkbox"/> GROUNDWATER	<input type="checkbox"/>	<input type="checkbox"/>	<u>3/25</u>	<u>1:00</u>	<u>OK</u>
	<u>B8 @1'</u>	<input type="checkbox"/>	<u>1</u>	<input checked="" type="checkbox"/> WASTEWATER	<input type="checkbox"/>	<input type="checkbox"/>	<u>3/25</u>	<u>1:08</u>	<u>Ext TPH</u>
	<u>B9 @1'</u>	<input type="checkbox"/>	<u>1</u>	<input checked="" type="checkbox"/> SOIL	<input type="checkbox"/>	<input type="checkbox"/>	<u>3/25</u>	<u>1:10</u>	<u>BTEX</u>
	<u>B10 @1'</u>	<input type="checkbox"/>	<u>1</u>	<input checked="" type="checkbox"/> OIL	<input type="checkbox"/>	<input type="checkbox"/>	<u>3/25</u>	<u>1:12</u>	

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Relinquished By: _____ Date: 3/25 Received By: _____
 Relinquished By: _____ Date: 4/20 Received By: _____
 Delivered By: (Circle One) Observed Temp. °C: 5.6 Sample Condition: Cool Intact
 Corrected Temp. °C: 5.1 Yes No
 Checked By: _____ (Initials)
 Turaround Time: _____ Standard Rush
 Thermometer ID #113 Bacteria (only) Sample Condition
 Correction Factor -0.5°C Yes No Yes No
 Corrected Temp. °C: _____



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

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	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	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.2 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

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	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	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	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	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/24/2022	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	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 89.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

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	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*	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	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 94.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.2 % 59.5-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	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*	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

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	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 90.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	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 99.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

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	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.7 % 59.5-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-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 91.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.1 % 59.5-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-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		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 96.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apustis		P.O. #:	
Project Manager: Bruce R.		Company:	
Address:	City:	State:	Zip:
Phone #:	Fax #:	Project Owner:	
Project #:		City:	State:
Project Name:		Phone #:	Zip:
Project Location: Bruce & Tom 301W		Fax #:	
Sampler Name: Joe Casarubios			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	CL	Ext TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					
A22172																
1	W01 BGS 0-3'	C	1								8/24	3:30				
2	W02 BGS 0-1'											3:31				
3	W03 BGS 0-1'											3:32				
4	W04 BGS 0-3'											3:33				
5	W05 BGS 0-3'											3:34				
6	W06 BGS 0-3'											3:35				
7	W07 BGS 0-3'											3:36				
8	W08 BGS 0-1'											3:37				
9	W09 BGS 0-1'											3:38				
10	W10 BGS 0-3'											3:40				

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Relinquished By: *[Signature]* Date: **3/24/22** Received By: *[Signature]* Date: **10/31**

Relinquished By: *[Signature]* Date: **10/31** Received By: *[Signature]* Date: **10/31**

Delivered By: (Circle One) UPS Bus Other: **#113**

Observed Temp. °C: **2.08** Sample Condition: Cool Intact

Corrected Temp. °C: **2.12** Yes No

Checked By: *[Signature]*

Turnaround Time: **Standard** **Rush**

Thermometer ID #113 Bacteria (only) Sample Condition

Correction Factor -0.5°C Cool Intact Observed Temp. °C

Yes No Yes No Yes No Yes No Yes No

Corrected Temp. °C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apuska Project Manager: River B.		BILL TO		ANALYSIS REQUEST	
Address: City: State: Zip:		P.O. #: Company: Attn: Address: City: State: Zip:			
Phone #: Fax #: Project #: Project Owner:		Address: City: State: Zip:			
Project Name: Project Location: Block 3 Tgm 201H		State: Phone #: Fax #:			
Sampler Name: Joe Gussner		Matrix:		Sampling:	
FOR LAB USE ONLY		PRESERV:		DATE TIME	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE TIME	X X X X
H221173 11 12 13	T: 3/24/22 W11 3535 0-3' W12 3505 0-3' W13 3505 0-3'	C1 C1 C1	/ / /	3/24 3:41 3/24 3:42 3/24 3:44	CC EXT TPH BTEX

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Relinquished By: [Signature] Date: 3/24/22 Time: 1:51	Received By: [Signature] Date: 3/24/22 Time: 2:12	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:
REMARKS:		

Delivered By: (Circle One) UPS - Bus - Other: Observed Temp. °C: **2.06** Sample Condition: Cool Intact Intact
 Corrected Temp. °C: **2.12** Yes No Yes No

Turnaround Time: Standard Rush Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C

Thermometer ID #413 Yes No No No



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

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		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 85.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.8 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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*	<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 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.7 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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*	<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 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apacher
 Project Manager: Praver R.
 Address: _____
 City: _____ State: _____ Zip: _____
 P.O. #: _____ Company: _____
 Attn: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 City: _____ State: _____ Zip: _____
 Project Name: _____
 Project Location: Black & Tom 30th
 Sampler Name: Joe Chausselet Jr.
 Fax #: _____
 Phone #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<u>H9A1207</u>														
	<u>1</u>	<u>W14</u>	<u>EGS 0-1'</u>	<u>✓</u>							<u>3/25</u>	<u>1:00</u>	<u>✓</u>	<u>CL</u>
	<u>2</u>	<u>W15</u>	<u>EGS 0-1'</u>	<u>✓</u>							<u>3/25</u>	<u>1:08</u>	<u>✓</u>	<u>EXT TPH</u>
	<u>3</u>	<u>W16</u>	<u>EGS 0-1'</u>	<u>✓</u>							<u>3/25</u>	<u>1:04</u>	<u>✓</u>	<u>RT6X</u>

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Refrigerated By: _____ Date: 3/25 Received By: _____
 Time: 4:30
 Relinquished By: _____ Date: 4/25 Received By: _____
 Time: 4:40

Delivered By: (Circle One) Standard Observed Temp. °C: 5.4 Sample Condition: Intact CHECKED BY: _____
 Corrected Temp. °C: 5.1 Cool Intact: Yes Bacteria (only) Sample Condition: _____
 Sampler - UPS - Bus - Other: _____ No Intact: No Observed Temp. °C: _____
 Turnaround Time: _____ Bacteria Intact: Yes Corrected Temp. °C: _____
 Thermometer ID #113 Correction Factor -0.5°C

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



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

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

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	04/21/2022	ND	416	104	400	3.77	

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*	10.9	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.4 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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*	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.1 % 59.5-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed 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 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.2 % 59.5-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	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		Analyzed 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 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	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 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.0 % 59.5-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apache
 Project Manager: Rene Baker
 Address: _____
 City: Hobbs State: NM Zip: 88240
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: _____
 Project Location: Blair 7 Tan 501 H
 Sampler Name: Joe Gumbel Jr.
 FOR LAB USE ONLY

P.O. #: _____ Company: _____
 Attn: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

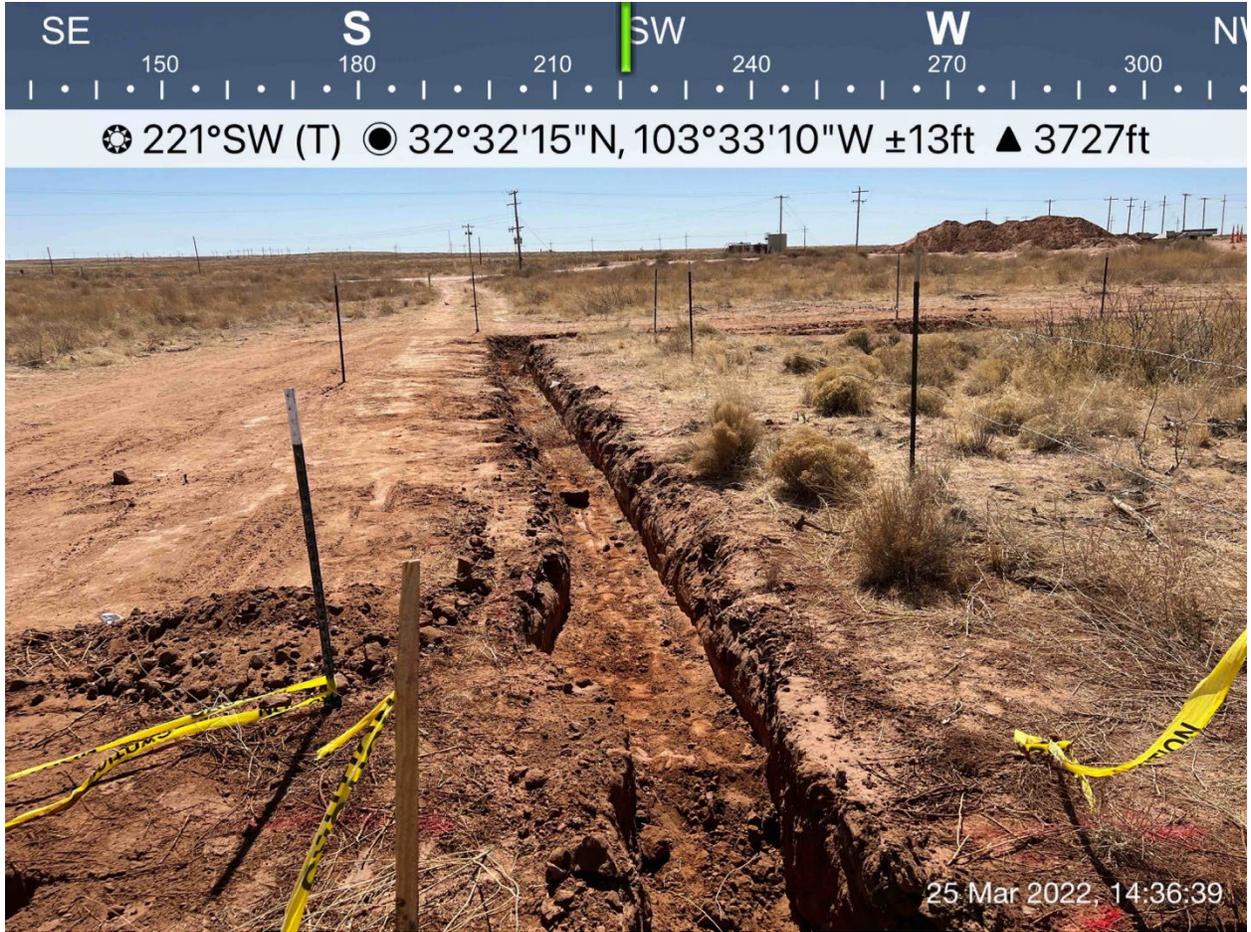
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CL	Ext TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<u>H201033</u>	<u>B11 e1'</u>		<u>1</u>							<u>4/20</u>	<u>9:47</u>	<u>+</u>	<u>+</u>	<u>+</u>
	<u>B12 e1'</u>		<u>1</u>							<u>4/20</u>	<u>9:48</u>	<u>+</u>	<u>+</u>	<u>+</u>
	<u>W17 BGS 0-1'</u>		<u>1</u>							<u>4/20</u>	<u>9:53</u>	<u>+</u>	<u>+</u>	<u>+</u>
	<u>B14 e3'</u>		<u>1</u>							<u>4/20</u>	<u>11:44</u>	<u>+</u>	<u>+</u>	<u>+</u>

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Relinquished By: _____ Date: 4/20 Received By: Joe Gumbel Jr.
 Relinquished By: _____ Date: 4/20 Received By: Joe Gumbel Jr.
 Relinquished By: _____ Date: _____ Received By: _____

Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS: Rush! get me!

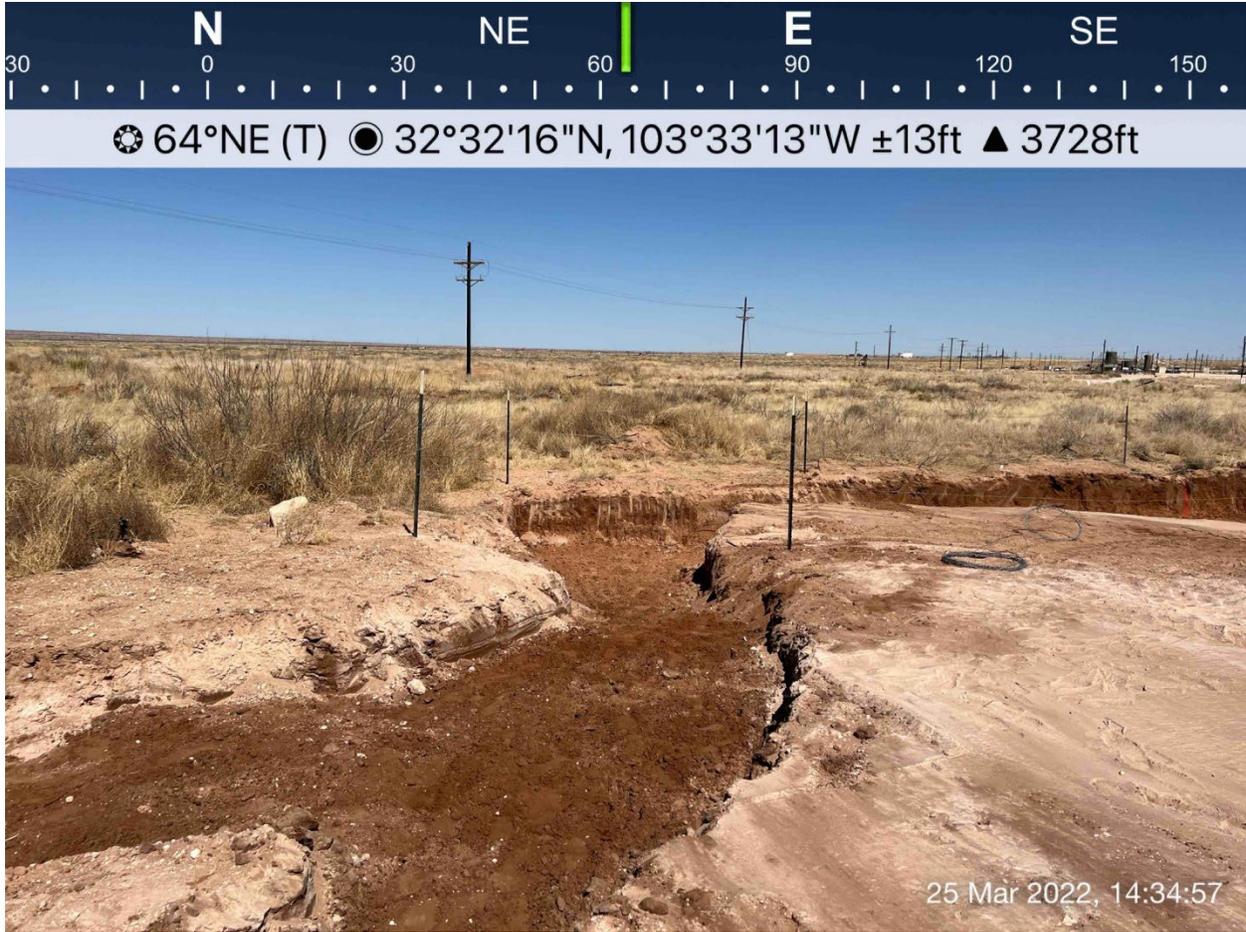
Delivered By: (Circle One) Observed Temp. °C: 5.30 Sample Condition: Intact Cool Intact
 Corrected Temp. °C: 4.80 Checked By: SR (Initials)
 Turnaround Time: _____ Standard Rush
 Thermometer ID #113 Correction Factor: -0.5°C Bacteria (only) Cool Intact Intact
 Corrected Temp. °C: _____

















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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

Action 116545

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 116545
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

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