



303 Veterans Airpark Lane Midland, TX 79705

## **Closure Report**

May 16, 2021

Re: EAU 121

Case # NRM2021222458

On 7/22/2020 a release occurred due to a corroded 2-inch valve resulting in the loss of oil and produced water. The release (GPS: 32.7724266, -104.2583466) is located east of Artesia, NM in unit letter P section 3 township 18S range 27E. A groundwater survey was conducted utilizing USGS wells of record with an elevation of 3,479 with the elevation at the release area being 3,510. The difference between elevation suggests the groundwater depth at the release area is 64'. This area is also found to be in high karst. A remediation plan was submitted and approved by OCD on 2/16/2021.

The release area was excavated to depths of 1', 2' and 8'. All excavated soil was hauled to an OCD approved facility. Final 5 point bottom and wall composite samples were collected not exceeding 200 square feet and submitted to a commercial laboratory for chloride, TPH, and BTEX. Once laboratory results were below table one standards for releases less than or equal to 50 feet to groundwater the excavation was backfilled with clean imported caliche and the pad restored.

Apache Corporation has remediated the release to below table one standards and respectfully request that event # NRM2021222458 be closed.

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

Submitted by;

*Larry Baker*

**Environmental Technician**

[larry.baker@apachecorp.com](mailto:larry.baker@apachecorp.com)

**Cell# 432-631-6982**

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.

Signature: Larry Baker

Date: 5/16/2021

email: larry.baker@apachecorp.com

Telephone: 432-631-6982

**OCD Only**

Received by: Chad Hensley

Date: 06/18/2021

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: Chad Hensley

Date: 06/18/2021

Printed Name: Chad Hensley

Title: Environmental Specialist Advanced











## Final Samples

Apache EAU #121

4/15/21

B1	32.7724228	-104.2583596
B2	32.7723701	-104.2583522
B3	32.7724282	-104.2583591
B4	32.7723681	-104.2583683
B5	32.7724042	-104.2584441
B6	32.7723698	-104.2584045
B7	32.7723980	-104.2584836
B8	32.7723864	-104.2585531
W1	32.7723904	-104.2583422
W2	32.7723924	-104.2585447
W3	32.7723543	-104.2585490
W4	32.7723650	-104.2585933
W5	32.7723771	-104.2585648
B9	32.7723656	-104.2585715
B10	32.7723571	-104.2586754
B11	32.7723380	-104.2587324
B12	32.7723055	-104.2587663
B13	32.7722765	-104.2587904
W6	32.7722489	-104.2588172
W7	32.7723811	-104.2584592
W8	32.7723952	-104.2584370



## Final Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
4/15/2021	B1	1'	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.5	<10.0
4/15/2021	B2	1'	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.9	<10.0
4/15/2021	B3	1'	384	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22	<10.0
4/15/2021	B4	1'	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
4/15/2021	B5	1'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.8	<10.0
4/15/2021	B6	1'	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.5	<10.0
4/15/2021	B7	1'	448	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	326	70.9
4/22/2021	B7	2'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
4/15/2021	B8	1'	512	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.7	<10.0
4/15/2021	B9	6'	668	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
4/22/2021	B9	7.5'	768								
4/26/2021	B9	8'	16								
4/15/2021	B10	1'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	88.3	11.4
4/15/2021	B11	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
4/15/2021	B12	1'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.9	<10.0
4/15/2021	B13	1'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
4/15/2021	W1	0-1'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
4/15/2021	W2	1-6'	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
4/15/2021	W3	1-6'	256	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
4/15/2021	W4	1-6'	448	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
4/15/2021	W5	1-6'	464	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
4/15/2021	W6	0-1'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	48.3	<10.0
4/22/2021	W7	1-2'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
4/22/2021	W8	1-2'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0





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

---

April 20, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU 121

Enclosed are the results of analyses for samples received by the laboratory on 04/15/21 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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](http://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, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 1 @ 1' (H210967-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2021	ND	2.13	106	2.00	4.22	
Toluene*	<0.050	0.050	04/19/2021	ND	2.04	102	2.00	3.70	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.00	99.9	2.00	4.35	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.90	98.4	6.00	4.04	
Total BTX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/19/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2021	ND	211	106	200	3.62	
DRO >C10-C28*	18.5	10.0	04/16/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/16/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 2 @ 1' (H210967-02)**

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	04/19/2021	ND	2.13	106	2.00	4.22	
Toluene*	<0.050	0.050	04/19/2021	ND	2.04	102	2.00	3.70	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.00	99.9	2.00	4.35	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.90	98.4	6.00	4.04	
Total BTEX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/19/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2021	ND	211	106	200	3.62	
DRO >C10-C28*	31.9	10.0	04/16/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/16/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 3 @ 1' (H210967-03)**

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	04/19/2021	ND	2.13	106	2.00	4.22		
Toluene*	<0.050	0.050	04/19/2021	ND	2.04	102	2.00	3.70		
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.00	99.9	2.00	4.35		
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.90	98.4	6.00	4.04		
Total BTEx	<0.300	0.300	04/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/19/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2021	ND	211	106	200	3.62	
DRO >C10-C28*	22.0	10.0	04/16/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/16/2021	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.1 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 4 @ 1' (H210967-04)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2021	ND	2.11	106	2.00	5.00	
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9	
Total BTX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/19/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2021	ND	211	106	200	3.62	
DRO >C10-C28*	<10.0	10.0	04/16/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/16/2021	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.7 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 5 @ 1' (H210967-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2021	ND	2.11	106	2.00	5.00	
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9	
Total BTX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/19/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2021	ND	211	106	200	3.62	
DRO >C10-C28*	19.8	10.0	04/16/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/16/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 6 @ 1' (H210967-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2021	ND	2.11	106	2.00	5.00	
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9	
Total BTX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/19/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2021	ND	211	106	200	3.62	
DRO >C10-C28*	12.5	10.0	04/16/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/16/2021	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.4 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 7 @ 1' (H210967-07)**

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	04/19/2021	ND	2.11	106	2.00	5.00	
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9	
Total BTEX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/19/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2021	ND	211	106	200	3.62	
DRO >C10-C28*	326	10.0	04/16/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	70.9	10.0	04/16/2021	ND					

Surrogate: 1-Chlorooctane 95.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 8 @ 1' (H210967-08)**

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	04/19/2021	ND	2.11	106	2.00	5.00	
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9	
Total BTEX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	04/19/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2021	ND	211	106	200	3.62	
DRO >C10-C28*	22.7	10.0	04/16/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/16/2021	ND					

Surrogate: 1-Chlorooctane 97.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.8 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 1 BGS 0-1' (H210967-09)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2021	ND	2.11	106	2.00	5.00	
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9	
Total BTX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	04/19/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2021	ND	211	106	200	3.62	
DRO >C10-C28*	<10.0	10.0	04/16/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/16/2021	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.1 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 2 BGS 1-6' (H210967-10)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2021	ND	2.11	106	2.00	5.00	
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9	
Total BTX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/19/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2021	ND	211	106	200	3.62	
DRO >C10-C28*	<10.0	10.0	04/16/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/16/2021	ND					

Surrogate: 1-Chlorooctane 94.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.9 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 3 BGS 1-6' (H210967-11)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2021	ND	2.11	106	2.00	5.00	
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9	
Total BTX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/19/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2021	ND	211	106	200	3.62	
DRO >C10-C28*	<10.0	10.0	04/16/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/16/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 4 BGS 1-6' (H210967-12)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2021	ND	2.11	106	2.00	5.00	
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9	
Total BTX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	04/19/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2021	ND	211	106	200	3.62	
DRO >C10-C28*	<10.0	10.0	04/16/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/16/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 5 BGS 1-6' (H210967-13)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2021	ND	2.11	106	2.00	5.00	
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9	
Total BTX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	04/19/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2021	ND	211	106	200	3.62	
DRO >C10-C28*	<10.0	10.0	04/16/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/16/2021	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 9 @ 6' (H210967-14)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2021	ND	2.11	106	2.00	5.00		
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47		
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4		
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9		
Total BTX	<0.300	0.300	04/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	04/19/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2021	ND	211	106	200	3.62	
DRO >C10-C28*	<10.0	10.0	04/17/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/17/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 6 BGS 0-1' (H210967-15)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2021	ND	2.11	106	2.00	5.00	
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9	
Total BTX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

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	04/19/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2021	ND	211	106	200	3.62	
DRO >C10-C28*	48.3	10.0	04/17/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/17/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 10 @ 1' (H210967-16)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2021	ND	2.11	106	2.00	5.00	
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9	
Total BTEX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

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	04/19/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2021	ND	211	106	200	3.62	
DRO >C10-C28*	88.3	10.0	04/17/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	11.4	10.0	04/17/2021	ND					

Surrogate: 1-Chlorooctane 96.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 11 @ 1' (H210967-17)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2021	ND	2.11	106	2.00	5.00		
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47		
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4		
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9		
Total BTX	<0.300	0.300	04/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.3-129

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	04/19/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2021	ND	211	106	200	3.62	
DRO >C10-C28*	<10.0	10.0	04/17/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/17/2021	ND					

Surrogate: 1-Chlorooctane 95.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.0 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 12 @ 1' (H210967-18)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2021	ND	2.11	106	2.00	5.00	
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9	
Total BTX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

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	04/19/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2021	ND	211	106	200	3.62	
DRO >C10-C28*	10.9	10.0	04/17/2021	ND	217	109	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/17/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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  
 JEFFREY BROOM  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received: 04/15/2021  
 Reported: 04/20/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/15/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 13 @ 1' (H210967-19)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2021	ND	2.11	106	2.00	5.00	
Toluene*	<0.050	0.050	04/19/2021	ND	2.06	103	2.00	7.47	
Ethylbenzene*	<0.050	0.050	04/19/2021	ND	2.01	101	2.00	10.4	
Total Xylenes*	<0.150	0.150	04/19/2021	ND	5.81	96.8	6.00	11.9	
Total BTX	<0.300	0.300	04/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

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	04/19/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2021	ND	188	94.1	200	1.02	
DRO >C10-C28*	<10.0	10.0	04/16/2021	ND	192	95.9	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	04/16/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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

---

### 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

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.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Aggreko</u>		P.O. #:		BILL TO				ANALYSIS REQUEST			
Project Manager: <u>Jeff Brown</u>		Company:									
Address:		Attn:									
City: <u>Hobbs</u>		Address:									
State: <u>NM</u> Zip: <u>88240</u>		City:									
Phone #:		Fax #:									
Project #:		Project Owner:									
Project Name:		State:		Zip:							
Project Location: <u>EAU 181</u>		Phone #:									
Sample Name: <u>soil</u>		Fax #:									
FOR LAB USE ONLY											
Lab I.D. <u>H210967</u>		Sample I.D.									
		(G)RAB OR (C)OMP									
		# CONTAINERS									
		GROUNDWATER									
		WASTEWATER									
		SOLID									
		OIL									
		SLUDGE									
		OTHER :									
		ACID/BASE:									
		ICE COOL									
		OTHER :									
		DATE		TIME							
1		B1 0-1'		4/15		10:28		C		Ext TPH	
2		B2 0-1'		4/15		10:30		/		/	
3		B3 0-1'		4/15		10:32		/		/	
4		B4 0-1'		4/15		10:34		/		/	
5		B5 0-1'		4/15		10:36		/		/	
6		B6 0-1'		4/15		10:38		/		/	
7		B7 0-1'		4/15		10:40		/		/	
8		B8 0-1'		4/15		10:42		/		/	
9		B9 0-1'		4/15		10:44		/		/	
10		B10 0-1'		4/15		11:08		/		/	

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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Joe Currence Jr.</u>	Date: <u>4/15</u>	Received By: <u>Janet Oldaker</u>	Date: <u>4/15</u>
Relinquished By:	Date:	Received By:	Date:
Time:	Time:	Time:	Time:

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact		Thermometer ID #113	Rush	Cool Intact	Observed Temp. °C
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C

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

**BILL TO**

## ANALYSIS REQUEST

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





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

---

April 23, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU 121

Enclosed are the results of analyses for samples received by the laboratory on 04/22/21 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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](http://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: 04/22/2021  
 Reported: 04/23/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/22/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: B 9 @ 7.5' (H211039-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	04/23/2021	ND	416	104	400	0.00	

**Sample ID: B 7 @ 2' (H211039-02)**

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	04/23/2021	ND	2.11	106	2.00	6.84	
Toluene*	<0.050	0.050	04/23/2021	ND	2.02	101	2.00	6.99	
Ethylbenzene*	<0.050	0.050	04/23/2021	ND	2.04	102	2.00	7.59	
Total Xylenes*	<0.150	0.150	04/23/2021	ND	5.94	99.1	6.00	6.96	
Total BTEx	<0.300	0.300	04/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2021	ND	231	116	200	8.01	
DRO >C10-C28*	<10.0	10.0	04/23/2021	ND	210	105	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	04/23/2021	ND					

Surrogate: 1-Chlorooctane 85.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.4 % 38.9-142

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: 04/22/2021  
 Reported: 04/23/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/22/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: W 7 BGS 1-2' (H211039-03)**

BTX 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	04/23/2021	ND	2.11	106	2.00	6.84	
Toluene*	<0.050	0.050	04/23/2021	ND	2.02	101	2.00	6.99	
Ethylbenzene*	<0.050	0.050	04/23/2021	ND	2.04	102	2.00	7.59	
Total Xylenes*	<0.150	0.150	04/23/2021	ND	5.94	99.1	6.00	6.96	
Total BTX	<0.300	0.300	04/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	128	16.0	04/23/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2021	ND	231	116	200	8.01	
DRO >C10-C28*	<10.0	10.0	04/23/2021	ND	210	105	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	04/23/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.8 % 38.9-142

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: 04/22/2021  
 Reported: 04/23/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/22/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: W 8 BGS 1-2' (H211039-04)**

BTX 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	04/23/2021	ND	2.11	106	2.00	6.84		
Toluene*	<0.050	0.050	04/23/2021	ND	2.02	101	2.00	6.99		
Ethylbenzene*	<0.050	0.050	04/23/2021	ND	2.04	102	2.00	7.59		
Total Xylenes*	<0.150	0.150	04/23/2021	ND	5.94	99.1	6.00	6.96		
Total BTX	<0.300	0.300	04/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 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	96.0	16.0	04/23/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2021	ND	231	116	200	8.01	
DRO >C10-C28*	<10.0	10.0	04/23/2021	ND	210	105	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	04/23/2021	ND					

Surrogate: 1-Chlorooctane 89.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.1 % 38.9-142

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

---

### 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

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.

A handwritten signature in cursive script, appearing to read "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

<b>Company Name:</b> <u>Apex</u>		<b>P.O. #:</b>		<b>ANALYSIS REQUEST</b>																																					
<b>Project Manager:</b> <u>Jeff Brown</u>		<b>Company:</b>																																							
<b>Address:</b>		<b>Attn:</b>																																							
<b>City:</b> <u>Hobbs</u>		<b>State:</b> <u>NM</u>		<b>Zip:</b> <u>88240</u>																																					
<b>Phone #:</b>		<b>Fax #:</b>		<b>Address:</b>																																					
<b>Project #:</b>		<b>City:</b>		<b>State:</b>		<b>Zip:</b>																																			
<b>Project Location:</b> <u>CAU #121</u>		<b>Phone #:</b>																																							
<b>Sample Name:</b> <u>See Attached</u>		<b>Fax #:</b>																																							
<b>FOR LAB USE ONLY</b>																																									
<b>Lab I.D.</b>		<b>Sample I.D.</b>		<b>GROUNDWATER</b>		<b>WASTEWATER</b>		<b>SOIL</b>		<b>OIL</b>		<b>SLUDGE</b>		<b>OTHER :</b>		<b>ACID/BASE:</b>		<b>ICE / COOL</b>		<b>OTHER :</b>		<b>DATE</b>		<b>TIME</b>		<b>ANALYSIS REQUEST</b>															
<u>H211039</u>		<u>18A @ 7.5'</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>4/22 9:50</u>		<u>1</u>		<u>1</u>		<u>1</u>													
<u>287</u>		<u>2'</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>4/22 10:51</u>		<u>1</u>		<u>1</u>		<u>1</u>													
<u>307</u>		<u>3GS 1-2'</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>4/22 11:24</u>		<u>1</u>		<u>1</u>		<u>1</u>													
<u>408</u>		<u>3GS 1-2'</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>4/22 11:26</u>		<u>1</u>		<u>1</u>		<u>1</u>													
<b>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 analysis. 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, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above cited sections or other law.</b>														<b>Relinquished By:</b>		<b>Date:</b> <u>4/22</u>		<b>Received By:</b> <u>Jeff Brown</u>		<b>Date:</b> <u>4/25/20</u>		<b>Time:</b> <u>4:25pm</u>		<b>Time:</b>		<b>Observed Temp. °C</b> <u>5.2</u>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b> <u>(initials)</u>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>	
														<b>Relinquished By:</b> <u>Jeff Brown</u>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b>							
														<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Observed Temp. °C</b>		<b>Corrected Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only)</b>		<b>Sample Condition</b> </							



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

---

April 27, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU 121

Enclosed are the results of analyses for samples received by the laboratory on 04/26/21 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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](http://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, stylized 'C' and 'K'.

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: 04/26/2021  
 Reported: 04/27/2021  
 Project Name: EAU 121  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 04/26/2021  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: B 9 @ 8' (H211063-01)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	04/27/2021	ND	400	100	400	3.92	

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

---

### 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

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.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager

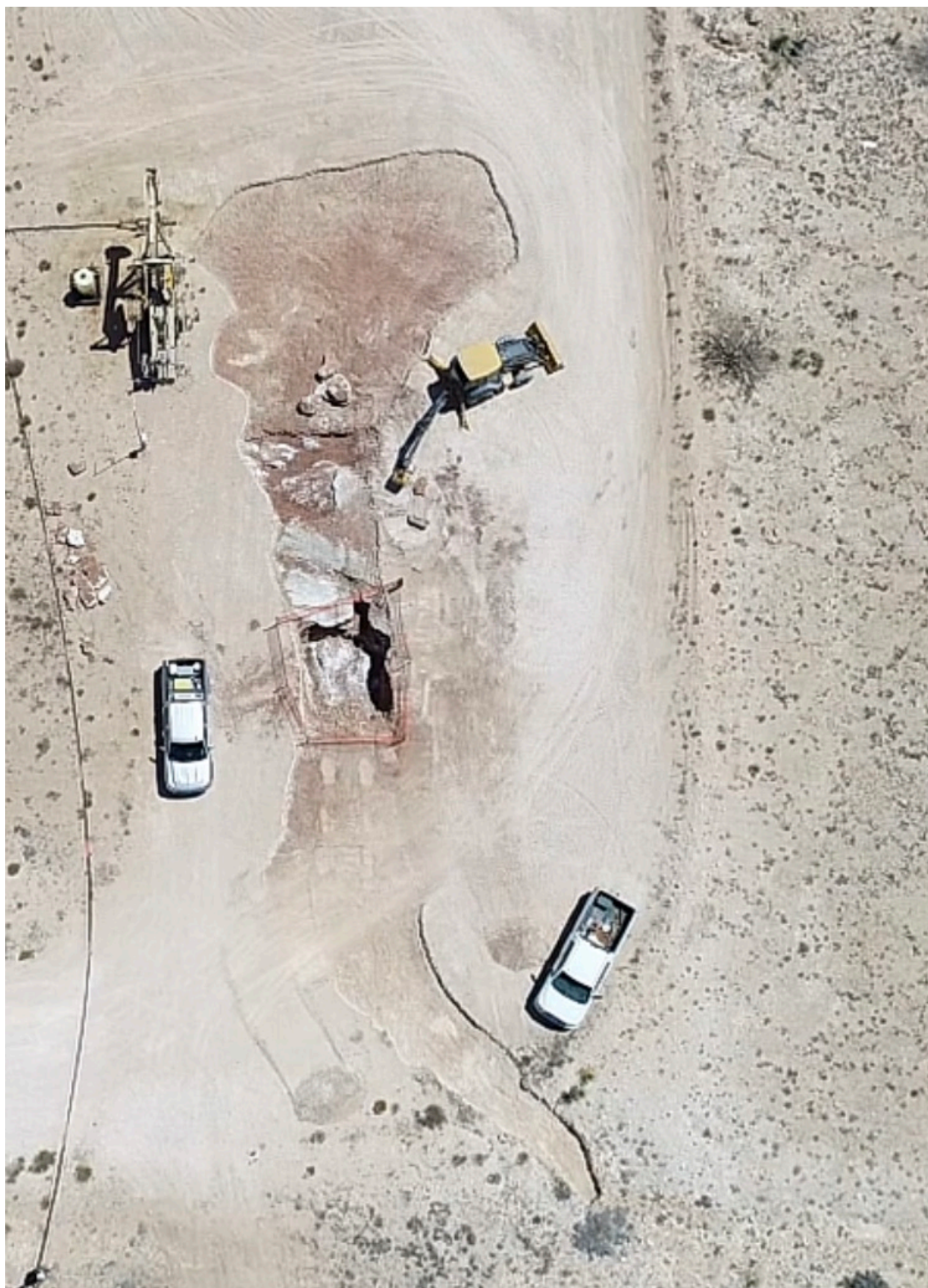


# Bill To

ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to [cery.aveille@canonmiami.org](mailto:cery.aveille@canonmiami.org)













☀ 208°SW (T) ☉ 32°46'20"N, 104°15'30"W ±13ft ▲ 3509ft



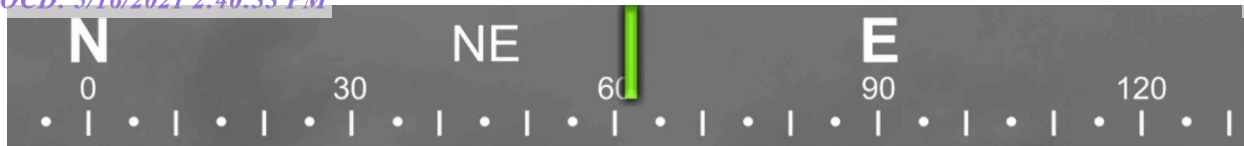




☀ 39°NE (T) ● 32°46'20"N, 104°15'31"W ±13ft ▲ 3505ft







☉ 62°NE (T) ☉ 32°46'20"N, 104°15'31"W ±13ft ▲ 3515ft







**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  
  
Action 28358

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 28358
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	6/18/2021