



303 Veterans Airpark Lane Midland, TX 79705

## **Closure Report**

March 17, 2021

Re: Hawk B 3 #4

Case # nRM2019630782

On 6/18/2020 a release occurred due to a stuffing box failure. The release (GPS: 32.5065041, -103.1445084) is located north of Eunice, New Mexico in unit letter I section 3 township 21S range 37E. On 2/1/2021 a soil bore (GPS: 32.509909, -103.148437) was conducted .32 miles north of the release. The soil bore was advanced to a depth of 57 feet. The bore hole was left open for 48 hours and gauged for the presence of water. According to the contractor soil log there was no presence of water to 57 feet. The bore hole indicates that the groundwater beneath the release is 51-100 feet to groundwater.

On 2/8/2021 final 5 point composite surface samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All laboratory analysis were below table one standards.

Apache Corporation has demonstrated that the release is below table one standards for releases 51-100 feet to groundwater and respectfully request that event #nRM2019630782 be closed.

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

Submitted by;

*Bruce Baker*

**Environmental Technician**

*larry.baker@apachecorp.com*

**Cell# 432-631-6982**

Incident ID	NRM2019630782
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: 3/17/2021  
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

**OCD Only**

Received by: Cristina Eads Date: 03/17/2021

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: *Cristina Eads* Date: 07/19/2021  
 Printed Name: Cristina Eads Title: Environmental Specialist

NEDU 206

Bore Hole

Hawk B 3 # 4

18

© 2021 Google

Google Earth

1734 ft

BH

H3

**BORING LOCATION:** APACHE CORPORATION NEDU #206  
DESERT SAND DRILLING

**DATE:** 2/1/2021

DEPTH (FEET BGL)		THICKNESS	TYPE OF SOIL	WATER BEARING	
FROM	TO			YES	NO
0'	5'	5'	TOPSOIL		X
5'	10'	5'	CALICHE		X
10'	20'	10'	CALICHE/RED SAND		X
20'	38'	18'	RED SAND/CLAY		X
38'	48'	10'	RED SAND		X
48'	57'	9'	TAN SAND/RED CLAY		X



121 ft

## Delineation Samples

Sample Date	Sample ID	Depth	Chloride Field	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
8/27/2020	SP 1	S	2,817	2160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	173	106	32.506529 -103.144423
8/27/2020		1'	905										
8/27/2020		2'	1268	944	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
8/27/2020		3'	896										
8/27/2020		4'	393	496	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
8/27/2020	HC1	S	378	288	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	33.7	14.1	32.50668 -103.14449
8/27/2020	HC2	S	358	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.50640 -103.14437
8/27/2020	HC3	S	293	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.50577 -103.14437
8/27/2020	HC4	S	146	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.50631 -103.14445

## Final Samples

Sample Date	Sample ID	Depth	Chloride Field	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
2/8/2021	B1	S	NA	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.2	<10.0	32.50662 -103.14456
2/8/2021	B2	S	NA	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.50665 -103.14451
2/8/2021	B3	S	NA	1380	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	90.5	55.3	32.50664 -103.14446
2/8/2021	B4	S	NA	768	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	59.8	38.6	32.50623 -103.14443
2/8/2021	B5	S	NA	2320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	58.4	45.6	32.50648 -103.14438
2/8/2021	B6	S	NA	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.5	13.6	32.50643 -103.14437
2/8/2021	B7	S	NA	560	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.7	<10.0	32.50639 -103.14437
2/8/2021	B8	S	NA	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.50633 -103.14437
2/8/2021	B9	S	NA	464	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.50628 -103.14437

2/8/2021	B10	S	NA	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.50623 -103.14436
2/8/2021	B11	S	NA	512	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.50617 -103.14436
2/8/2021	B12	S	NA	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.50609 -103.14435
2/8/2021	B13	S	NA	576	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.50603 -103.14435
2/8/2021	B14	S	NA	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.50596 -103.14436
2/8/2021	B15	S	NA	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.50591 -103.14437
2/8/2021	B16	S	NA	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.50586 -103.14438
2/8/2021	B17	S	NA	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.50582 -103.14438



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

---

August 28, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: HAWK B -3 #4

Enclosed are the results of analyses for samples received by the laboratory on 08/27/20 10:56.

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:	08/27/2020	Sampling Date:	08/27/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: SP 1 @ SURFACE (H002263-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2020	ND	2.07	104	2.00	2.83	
Toluene*	<0.050	0.050	08/28/2020	ND	2.06	103	2.00	3.51	
Ethylbenzene*	<0.050	0.050	08/28/2020	ND	2.04	102	2.00	3.11	
Total Xylenes*	<0.150	0.150	08/28/2020	ND	5.90	98.4	6.00	3.16	
Total BTEX	<0.300	0.300	08/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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
<b>Chloride</b>	<b>2160</b>	16.0	08/28/2020	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	08/28/2020	ND	212	106	200	3.97	
<b>DRO &gt;C10-C28*</b>	<b>173</b>	10.0	08/28/2020	ND	224	112	200	1.95	
<b>EXT DRO &gt;C28-C36</b>	<b>106</b>	10.0	08/28/2020	ND					

Surrogate: 1-Chlorooctane 134 % 44.3-144

Surrogate: 1-Chlorooctadecane 141 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	08/27/2020	Sampling Date:	08/27/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: SP 1 @ 2' (H002263-02)**

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	08/28/2020	ND	2.07	104	2.00	2.83	
Toluene*	<0.050	0.050	08/28/2020	ND	2.06	103	2.00	3.51	
Ethylbenzene*	<0.050	0.050	08/28/2020	ND	2.04	102	2.00	3.11	
Total Xylenes*	<0.150	0.150	08/28/2020	ND	5.90	98.4	6.00	3.16	
Total BTEX	<0.300	0.300	08/28/2020	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	944	16.0	08/28/2020	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	08/28/2020	ND	212	106	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/28/2020	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	08/28/2020	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 122 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	08/27/2020	Sampling Date:	08/27/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: SP 1 @ 4' (H002263-03)**

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	08/28/2020	ND	2.07	104	2.00	2.83	
Toluene*	<0.050	0.050	08/28/2020	ND	2.06	103	2.00	3.51	
Ethylbenzene*	<0.050	0.050	08/28/2020	ND	2.04	102	2.00	3.11	
Total Xylenes*	<0.150	0.150	08/28/2020	ND	5.90	98.4	6.00	3.16	
Total BTEX	<0.300	0.300	08/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	496	16.0	08/28/2020	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	08/28/2020	ND	212	106	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/28/2020	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	08/28/2020	ND					

Surrogate: 1-Chlorooctane 131 % 44.3-144

Surrogate: 1-Chlorooctadecane 140 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	08/27/2020	Sampling Date:	08/27/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: HC 1 (H002263-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2020	ND	2.07	104	2.00	2.83	
Toluene*	<0.050	0.050	08/28/2020	ND	2.06	103	2.00	3.51	
Ethylbenzene*	<0.050	0.050	08/28/2020	ND	2.04	102	2.00	3.11	
Total Xylenes*	<0.150	0.150	08/28/2020	ND	5.90	98.4	6.00	3.16	
Total BTEX	<0.300	0.300	08/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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
<b>Chloride</b>	<b>288</b>	16.0	08/28/2020	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	08/28/2020	ND	212	106	200	3.97	
<b>DRO &gt;C10-C28*</b>	<b>33.7</b>	10.0	08/28/2020	ND	224	112	200	1.95	
<b>EXT DRO &gt;C28-C36</b>	<b>14.1</b>	10.0	08/28/2020	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 124 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	08/27/2020	Sampling Date:	08/27/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: HC 2 (H002263-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2020	ND	2.07	104	2.00	2.83	
Toluene*	<0.050	0.050	08/28/2020	ND	2.06	103	2.00	3.51	
Ethylbenzene*	<0.050	0.050	08/28/2020	ND	2.04	102	2.00	3.11	
Total Xylenes*	<0.150	0.150	08/28/2020	ND	5.90	98.4	6.00	3.16	
Total BTEX	<0.300	0.300	08/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	08/28/2020	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	08/28/2020	ND	212	106	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/28/2020	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	08/28/2020	ND					

Surrogate: 1-Chlorooctane 115 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	08/27/2020	Sampling Date:	08/27/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: HC 3 (H002263-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2020	ND	2.07	104	2.00	2.83	
Toluene*	<0.050	0.050	08/28/2020	ND	2.06	103	2.00	3.51	
Ethylbenzene*	<0.050	0.050	08/28/2020	ND	2.04	102	2.00	3.11	
Total Xylenes*	<0.150	0.150	08/28/2020	ND	5.90	98.4	6.00	3.16	
Total BTEX	<0.300	0.300	08/28/2020	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	128	16.0	08/28/2020	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	08/27/2020	ND	202	101	200	2.63	
DRO >C10-C28*	<10.0	10.0	08/27/2020	ND	205	103	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	08/27/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	08/27/2020	Sampling Date:	08/27/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: HC 4 (H002263-07)**

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	08/28/2020	ND	2.07	104	2.00	2.83	
Toluene*	<0.050	0.050	08/28/2020	ND	2.06	103	2.00	3.51	
Ethylbenzene*	<0.050	0.050	08/28/2020	ND	2.04	102	2.00	3.11	
Total Xylenes*	<0.150	0.150	08/28/2020	ND	5.90	98.4	6.00	3.16	
Total BTEX	<0.300	0.300	08/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	48.0	16.0	08/28/2020	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	08/27/2020	ND	202	101	200	2.63	
DRO >C10-C28*	<10.0	10.0	08/27/2020	ND	205	103	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	08/27/2020	ND					

Surrogate: 1-Chlorooctane 99.1 % 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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=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*

Celey D. Keene, Lab Director/Quality Manager







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

---

February 11, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: HAWK B -3 #4

Enclosed are the results of analyses for samples received by the laboratory on 02/08/21 15:20.

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:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 1 (H210318-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2021	ND	2.18	109	2.00	1.83	
Toluene*	<0.050	0.050	02/10/2021	ND	2.16	108	2.00	2.19	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.10	105	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.11	102	6.00	2.55	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>32.0</b>	16.0	02/10/2021	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	02/10/2021	ND	213	106	200	0.435	
<b>DRO &gt;C10-C28*</b>	<b>15.2</b>	10.0	02/10/2021	ND	209	105	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 67.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 65.2 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 2 (H210318-02)**

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	02/10/2021	ND	2.18	109	2.00	1.83	
Toluene*	<0.050	0.050	02/10/2021	ND	2.16	108	2.00	2.19	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.10	105	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.11	102	6.00	2.55	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/10/2021	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	02/10/2021	ND	213	106	200	0.435	
DRO >C10-C28*	<10.0	10.0	02/10/2021	ND	209	105	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 77.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.1 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 3 (H210318-03)**

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	02/10/2021	ND	2.21	110	2.00	3.20	
Toluene*	<0.050	0.050	02/10/2021	ND	2.17	108	2.00	3.89	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.11	105	2.00	4.27	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.13	102	6.00	4.81	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1380</b>	16.0	02/10/2021	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	02/10/2021	ND	213	106	200	0.435	
<b>DRO &gt;C10-C28*</b>	<b>90.5</b>	10.0	02/10/2021	ND	209	105	200	5.31	
<b>EXT DRO &gt;C28-C36</b>	<b>55.3</b>	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 69.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.5 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 4 (H210318-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2021	ND	2.21	110	2.00	3.20	
Toluene*	<0.050	0.050	02/10/2021	ND	2.17	108	2.00	3.89	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.11	105	2.00	4.27	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.13	102	6.00	4.81	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>768</b>	16.0	02/10/2021	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	02/10/2021	ND	213	106	200	0.435	
<b>DRO &gt;C10-C28*</b>	<b>59.8</b>	10.0	02/10/2021	ND	209	105	200	5.31	
<b>EXT DRO &gt;C28-C36</b>	<b>38.6</b>	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 77.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.8 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 5 (H210318-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2021	ND	2.21	110	2.00	3.20	
Toluene*	<0.050	0.050	02/10/2021	ND	2.17	108	2.00	3.89	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.11	105	2.00	4.27	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.13	102	6.00	4.81	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2320</b>	16.0	02/10/2021	ND	400	100	400	3.92	QM-07

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	02/10/2021	ND	213	106	200	0.435	
<b>DRO &gt;C10-C28*</b>	<b>58.4</b>	10.0	02/10/2021	ND	209	105	200	5.31	
<b>EXT DRO &gt;C28-C36</b>	<b>45.6</b>	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 66.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 70.9 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 6 (H210318-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2021	ND	2.21	110	2.00	3.20	
Toluene*	<0.050	0.050	02/10/2021	ND	2.17	108	2.00	3.89	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.11	105	2.00	4.27	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.13	102	6.00	4.81	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>400</b>	16.0	02/10/2021	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	02/10/2021	ND	213	106	200	0.435	
<b>DRO &gt;C10-C28*</b>	<b>19.5</b>	10.0	02/10/2021	ND	209	105	200	5.31	
<b>EXT DRO &gt;C28-C36</b>	<b>13.6</b>	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 63.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 64.7 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 7 (H210318-07)**

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	02/10/2021	ND	2.21	110	2.00	3.20	
Toluene*	<0.050	0.050	02/10/2021	ND	2.17	108	2.00	3.89	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.11	105	2.00	4.27	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.13	102	6.00	4.81	
Total BTEX	<0.300	0.300	02/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>560</b>	16.0	02/10/2021	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	02/10/2021	ND	213	106	200	0.435	
<b>DRO &gt;C10-C28*</b>	<b>14.7</b>	10.0	02/10/2021	ND	209	105	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 68.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.4 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 8 (H210318-08)**

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	02/10/2021	ND	2.21	110	2.00	3.20	
Toluene*	<0.050	0.050	02/10/2021	ND	2.17	108	2.00	3.89	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.11	105	2.00	4.27	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.13	102	6.00	4.81	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/10/2021	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	02/10/2021	ND	213	106	200	0.435	
DRO >C10-C28*	<10.0	10.0	02/10/2021	ND	209	105	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 69.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 70.3 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 9 (H210318-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2021	ND	2.21	110	2.00	3.20	
Toluene*	<0.050	0.050	02/10/2021	ND	2.17	108	2.00	3.89	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.11	105	2.00	4.27	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.13	102	6.00	4.81	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/10/2021	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	02/10/2021	ND	213	106	200	0.435	
DRO >C10-C28*	<10.0	10.0	02/10/2021	ND	209	105	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 74.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.2 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 10 (H210318-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2021	ND	2.21	110	2.00	3.20	
Toluene*	<0.050	0.050	02/10/2021	ND	2.17	108	2.00	3.89	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.11	105	2.00	4.27	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.13	102	6.00	4.81	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/10/2021	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	02/10/2021	ND	213	106	200	0.435	
DRO >C10-C28*	<10.0	10.0	02/10/2021	ND	209	105	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 67.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 66.8 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 11 (H210318-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2021	ND	2.21	110	2.00	3.20	
Toluene*	<0.050	0.050	02/10/2021	ND	2.17	108	2.00	3.89	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.11	105	2.00	4.27	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.13	102	6.00	4.81	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	02/10/2021	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	02/10/2021	ND	224	112	200	0.237	
DRO >C10-C28*	<10.0	10.0	02/10/2021	ND	220	110	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 73.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 65.5 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 12 (H210318-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2021	ND	2.21	110	2.00	3.20	
Toluene*	<0.050	0.050	02/10/2021	ND	2.17	108	2.00	3.89	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.11	105	2.00	4.27	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.13	102	6.00	4.81	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	02/10/2021	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	02/10/2021	ND	224	112	200	0.237	
DRO >C10-C28*	<10.0	10.0	02/10/2021	ND	220	110	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 75.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 70.7 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 13 (H210318-13)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2021	ND	2.21	110	2.00	3.20	
Toluene*	<0.050	0.050	02/10/2021	ND	2.17	108	2.00	3.89	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.11	105	2.00	4.27	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.13	102	6.00	4.81	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/10/2021	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	02/10/2021	ND	224	112	200	0.237	
DRO >C10-C28*	<10.0	10.0	02/10/2021	ND	220	110	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 76.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.9 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 14 (H210318-14)**

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	02/10/2021	ND	2.21	110	2.00	3.20	
Toluene*	<0.050	0.050	02/10/2021	ND	2.17	108	2.00	3.89	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.11	105	2.00	4.27	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.13	102	6.00	4.81	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>176</b>	16.0	02/10/2021	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	02/10/2021	ND	224	112	200	0.237	
DRO >C10-C28*	<10.0	10.0	02/10/2021	ND	220	110	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 75.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 70.6 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 15 (H210318-15)**

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	02/10/2021	ND	2.21	110	2.00	3.20	
Toluene*	<0.050	0.050	02/10/2021	ND	2.17	108	2.00	3.89	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.11	105	2.00	4.27	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.13	102	6.00	4.81	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/10/2021	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	02/10/2021	ND	224	112	200	0.237	
DRO >C10-C28*	<10.0	10.0	02/10/2021	ND	220	110	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 71.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 65.8 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 16 (H210318-16)**

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	02/10/2021	ND	2.21	110	2.00	3.20	
Toluene*	<0.050	0.050	02/10/2021	ND	2.17	108	2.00	3.89	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.11	105	2.00	4.27	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.13	102	6.00	4.81	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/10/2021	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	02/10/2021	ND	224	112	200	0.237	
DRO >C10-C28*	<10.0	10.0	02/10/2021	ND	220	110	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 67.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 60.8 % 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  
 BRUCE BAKER  
 2350 W. MARLAND BLVD.  
 HOBBS NM, 88240  
 Fax To: (575) 393-2432

Received:	02/08/2021	Sampling Date:	02/08/2021
Reported:	02/11/2021	Sampling Type:	Soil
Project Name:	HAWK B -3 #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	HAWK B-3 #4		

**Sample ID: B 17 (H210318-17)**

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	02/10/2021	ND	2.21	110	2.00	3.20	
Toluene*	<0.050	0.050	02/10/2021	ND	2.17	108	2.00	3.89	
Ethylbenzene*	<0.050	0.050	02/10/2021	ND	2.11	105	2.00	4.27	
Total Xylenes*	<0.150	0.150	02/10/2021	ND	6.13	102	6.00	4.81	
Total BTEX	<0.300	0.300	02/10/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/10/2021	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	02/10/2021	ND	224	112	200	0.237	
DRO >C10-C28*	<10.0	10.0	02/10/2021	ND	220	110	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	02/10/2021	ND					

Surrogate: 1-Chlorooctane 62.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 56.2 % 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

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apache Corporation  
 Project Manager: Bruce Bekker  
 Address: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 City: \_\_\_\_\_ Attn: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Project Name: Hawk B3 #4  
 Project Location: Hawk B3 #4  
 Sampler Name: Jeff Brown  
 P.O. #: \_\_\_\_\_ Company: \_\_\_\_\_  
 Address: \_\_\_\_\_ Attn: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	CL-	BTEX	EXT. TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:					
H210318	B1	C	0			✓					8/18/01	1030	✓		
	B2	C	0			✓					1032	1032	✓		
	B3	C	0			✓					1033	1033	✓		
	B4	C	0			✓					1034	1034	✓		
	B5	C	0			✓					1035	1035	✓		
	B6	C	0			✓					1036	1036	✓		
	B7	C	0			✓					1037	1037	✓		
	B8	C	0			✓					1038	1038	✓		
	B9	C	0			✓					1039	1039	✓		
	B10	C	0			✓					8/18/01	1040	✓		

FOR LAB USE ONLY

Relinquished By: Jeff Brown  
 Date: 8/18/01  
 Time: 1520

Received By: [Signature]  
 Date: 8/18/01  
 Time: 1520

Relinquished By: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Observed Temp. °C: 29  
 Corrected Temp. °C: \_\_\_\_\_

Sample Condition: Cool Intact  Yes  No

Checked By: [Signature]

Remarks: \_\_\_\_\_

Standard  Bacteria (only)   
 Cool Intact  Observed Temp. °C: \_\_\_\_\_  
 Corrected Temp. °C: \_\_\_\_\_



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: <i>Apache Corporation</i> Project Manager: <i>Bruce Baker</i>		P.O. #: Company: Attn: Address: City: State: Zip:	
Address: City: State: Zip:		Fax #: Project Owner: City: State: Zip:	
Phone #: Project #: Project Name: <i>Hawk B3 #4</i> Project Location: <i>Hawk B3 #4</i>		Phone #: Fax #: Project Name: <i>Hawk B3 #4</i> Project Location: <i>Hawk B3 #4</i>	
Sampler Name: <i>Jeff Brown</i>		Fax #: PRESERV:	
FOR LAB USE ONLY		SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	DATE TIME
<i>H21038</i>			
<i>11 B11</i>		<input checked="" type="checkbox"/>	<i>8/8/01 1041</i>
<i>12 B12</i>		<input checked="" type="checkbox"/>	<i>1042</i>
<i>13 B13</i>		<input checked="" type="checkbox"/>	<i>1043</i>
<i>14 B14</i>		<input checked="" type="checkbox"/>	<i>1044</i>
<i>15 B15</i>		<input checked="" type="checkbox"/>	<i>1045</i>
<i>16 B16</i>		<input checked="" type="checkbox"/>	<i>1046</i>
<i>17 B17</i>		<input checked="" type="checkbox"/>	<i>8/8/01 1047</i>
Relinquished By: <i>Jeff Brown</i>		Received By: <i>Juanita Chaboye</i>	
Date: <i>2/8/01</i>		Date: <i>8/8/01</i>	
Time: <i>1520</i>		Time:	
Relinquished By:		Received By:	
Date:		Date:	
Time:		Time:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: <i>2.9</i> Corrected Temp. °C:	
Sample Condition Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) Sample Condition: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush		CHECKED BY: (Initials) <i>J.C.</i> Turnaround Time:	
Thermometer ID #113 Correction Factor None		Bacteria (only) Sample Condition: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C:	
REMARKS:			
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:			

WGS84 32.50671,  
±20ft -103.14451

ft  
±10ft 3472

°T  
±10 N350



17Mar21 14:02 Ad-hoc  
Hobbs, NM 88231, United States © 17-Mar-21 14:02:43

**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 21121

**CONDITIONS**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 21121
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
ceads	None	7/19/2021