



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

August 23, 2021

Re: NMGSAU # 373

Case # nAPP2100442670

Background:

On 12/29/2020 a release occurred due to a 3 inch poly line separated from the collar near the steel to poly transition. The release (GPS: 32.642640, -103.294748) is located west of Monument, New Mexico in unit letter K section 19 township 21S range 37E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest well of record suggest the groundwater depth below the release to be 21 feet below ground surface. A remediation plan was submitted and approved by OCD.

The release area was excavated to a depth of 2 foot. On 8/18/2021 final 5 point bottom and wall composite 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. Laboratory results were above table one standards for TPH at B8. B8 was excavated an additional 3 inches and a 5 point bottom composite sample not exceeding 200 square feet was collected and submitted to a commercial laboratory for analysis of TPH and BTEX. All excavated soil was hauled to an OCD approved disposal facility. The excavation was backfilled with clean imported caliche to ground surface and the pad was restored.

Apache Corporation has remediated the release to below table one standards and respectfully request that event # nAPP2100442670 be closed.

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

Submitted by;

Bruce Baker

Environmental Technician

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: 8/23/2021

email: larry.baker@apachecorp.com

Telephone: 432-631-6982

OCD Only

Received by: Chad Hensley

Date: 09/21/2021

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: 09/21/2021

Printed Name: Chad Hensley

Title: Environmental Specialist Advanced



Google Earth

Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
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Bottom Samples

8/18/2021	B1	2'	336	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642834, -103.294661
8/18/2021	B2	2'	352	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642792, -103.294653
8/18/2021	B3	2'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642753, -103.294640
8/18/2021	B4	2'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642762, -103.294611
8/18/2021	B5	2'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642768, -103.294574
8/18/2021	B6	2'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642765, -103.294539
8/18/2021	B7	2'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642736, -103.294550
8/18/2021	B8	2'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	95.4	18.6	32.642732, -103.294582
8/19/2021	B8	2.3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
8/18/2021	B9	2'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642723, -103.294601
8/18/2021	B10	2'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642715, -103.294623
8/18/2021	B11	2'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642684, -103.294588
8/18/2021	B12	2'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642655, -103.294586
8/18/2021	B13	2'	256	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642582, -103.294563

Wall Samples

8/18/2021	W1	0-2'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642787, -103.294537
8/18/2021	W2	0-2'	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642523, -103.294522
8/18/2021	W3	0-2'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642663, -103.294617
8/18/2021	W4	0-2'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.642804, -103.294693



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

August 19, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU #373

Enclosed are the results of analyses for samples received by the laboratory on 08/18/21 15:48.

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.

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGSAU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 1 (H212204-01)

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	08/19/2021	ND	1.80	90.2	2.00	10.3	
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/19/2021	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 2 (H212204-02)

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	08/19/2021	ND	1.80	90.2	2.00	10.3	
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/19/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-133

Surrogate: 1-Chlorooctadecane 113 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 3 (H212204-03)

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	08/19/2021	ND	1.80	90.2	2.00	10.3	
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/19/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 4 (H212204-04)

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	08/19/2021	ND	1.80	90.2	2.00	10.3	
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/19/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-133

Surrogate: 1-Chlorooctadecane 112 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 5 (H212204-05)

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	08/19/2021	ND	1.80	90.2	2.00	10.3	
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/19/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-133

Surrogate: 1-Chlorooctadecane 116 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 6 (H212204-06)

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	08/19/2021	ND	1.80	90.2	2.00	10.3		
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9		
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5		
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1		
Total BTEx	<0.300	0.300	08/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/19/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 7 (H212204-07)

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	08/19/2021	ND	1.80	90.2	2.00	10.3	
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 8 (H212204-08)

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	08/19/2021	ND	1.80	90.2	2.00	10.3		
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9		
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5		
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1		
Total BTEx	<0.300	0.300	08/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	95.4	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	18.6	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 97.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 9 (H212204-09)

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	08/19/2021	ND	1.80	90.2	2.00	10.3	
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 10 (H212204-10)

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	08/19/2021	ND	1.80	90.2	2.00	10.3	
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	211	105	200	7.58	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	222	111	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 11 (H212204-11)

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	08/19/2021	ND	1.80	90.2	2.00	10.3	
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	184	92.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	208	104	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 12 (H212204-12)

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	08/19/2021	ND	1.80	90.2	2.00	10.3	
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/19/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	184	92.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	208	104	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 95.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 13 (H212204-13)

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	08/19/2021	ND	1.80	90.2	2.00	10.3	
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	184	92.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	208	104	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 1 (H212204-14)

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	08/19/2021	ND	1.80	90.2	2.00	10.3	
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	184	92.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	208	104	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 2 (H212204-15)

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	08/19/2021	ND	1.80	90.2	2.00	10.3		
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9		
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5		
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1		
Total BTEx	<0.300	0.300	08/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	184	92.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	208	104	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 3 (H212204-16)

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	08/19/2021	ND	1.80	90.2	2.00	10.3	
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	184	92.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	208	104	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 96.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2021
 Reported: 08/19/2021
 Project Name: NMGS AU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 4 (H212204-17)

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	08/19/2021	ND	1.80	90.2	2.00	10.3	
Toluene*	<0.050	0.050	08/19/2021	ND	1.95	97.5	2.00	10.9	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	1.87	93.6	2.00	12.5	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	5.64	94.0	6.00	12.1	
Total BTX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/19/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2021	ND	184	92.2	200	8.14	
DRO >C10-C28*	<10.0	10.0	08/19/2021	ND	208	104	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	08/19/2021	ND					

Surrogate: 1-Chlorooctane 96.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 100 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



BILL TO

ANALYSIS REQUEST

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

101 East Marland, Hobbs, NM 88240
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Page 21 of 21



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August 20, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU #373

Enclosed are the results of analyses for samples received by the laboratory on 08/19/21 15:42.

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.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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: 08/19/2021
 Reported: 08/20/2021
 Project Name: NMGSAU #373
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 8 (H212221-01)

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	08/19/2021	ND	2.10	105	2.00	3.02	
Toluene*	<0.050	0.050	08/19/2021	ND	2.24	112	2.00	2.23	
Ethylbenzene*	<0.050	0.050	08/19/2021	ND	2.17	108	2.00	3.32	
Total Xylenes*	<0.150	0.150	08/19/2021	ND	6.47	108	6.00	3.37	
Total BTEX	<0.300	0.300	08/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	08/20/2021	ND	213	107	200	6.49	
DRO >C10-C28*	<10.0	10.0	08/20/2021	ND	199	99.5	200	0.290	
EXT DRO >C28-C36	<10.0	10.0	08/20/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

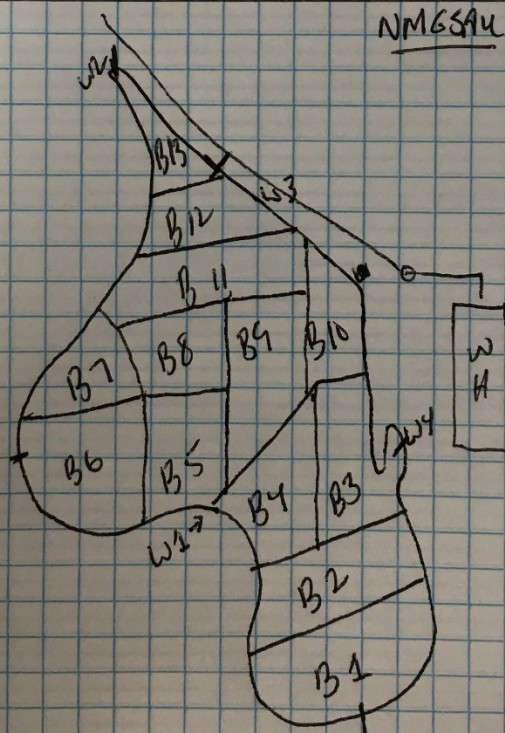


BILL TO

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NMGSAU 373 GPS Points + Field map

B4 - 32.642834, -103.294661
 B2 - 32.642742, -103.294653
 B3 - 32.642753, -103.294640
 B4 - 32.642762, -103.294611
 B5 - 32.642768, -103.294574
 B6 - 32.642765, -103.294539
 B7 - 32.642736, -103.294550
 B8 - 32.642732, -103.294582
 B9 - 32.642723, -103.294601
 B10 - 32.642725, -103.294623
 B11 - 32.642684, -103.294588
 B12 - 32.642655, -103.294586
 B13 - 32.642582, -103.294563
 W1 - 32.642787, -103.294537
 W2 - 32.642523, -103.294522
 W3 - 32.642663, -103.294617
 W4 - 32.642804, -103.294693

NMGSAU 373 FIELD MAP





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 43768

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 43768
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	9/21/2021