



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

January 5, 2023

Re: South Eunice Seven Rivers Queen 436
Case nAPP2217429592

Background:

On 6/22/2022 a release occurred due external corrosion on a steel flowline. The release (GPS: 32.344274, -103.226148) is located south of Eunice, New Mexico in unit letter M section 36 township 22S range 36E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest well suggest groundwater beneath the release to be 55 feet.

The release area was excavated to a depth of 3 feet. All excavated soil was hauled to an OCD approved disposal facility. On 12/15/2022 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. All Laboratory analysis were below table one standards for release less than 50 feet to groundwater. The excavation was backfilled with clean imported caliche to restore the lease road.

Apache Corporation has completed the remediation to below table one standards and respectfully request closure of event nAPP2217429529.

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

Submitted by.

Larry Baker

Environmental Technician
larry.baker@apachecorp.com
Cell# 432-818-1654

Incident ID	nAPP2217429592
District RP	
Facility ID	
Application ID	

Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Larry Baker Title: Environmental Tech Sr. Staff
 Signature: Larry Baker Date: 1/5/2022
 email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Jennifer Nobui Date: 01/31/2023
 Printed Name: Jennifer Nobui Title: Environmental Specialist A

From: [Baker, Larry](#)
To: [Nobui, Jennifer, EMNRD](#)
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 145310
Date: Tuesday, December 13, 2022 8:39:00 AM

Ms. Nobui,

Apache Corporation will be collecting final sampling on 12/15/2022 at 9:00 a.m. Please let me know if you have any questions or wish to discuss. Thanks and have a good day.

BRUCE BAKER

ENVIRONMENTAL TECHNICIAN SR STAFF

direct 432-818-1654 | Cell 432-250-8384

APACHE CORPORATION

303 Veterans Airpark Lane
Midland, TX 79705

[ApacheCorp.com](#) | [LinkedIn](#) | [Facebook](#) | [Twitter](#) | [StockTwits](#) | [YouTube](#)

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, September 26, 2022 11:21 AM
To: Baker, Larry <Larry.Baker@apachecorp.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 145310

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

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2217429592, with the following conditions:

- **Remediation Plan Approved with Conditions. The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater. Please remediate to the most stringent criteria in Table 1 or advance a boring to 51' for depth to groundwater determination.**

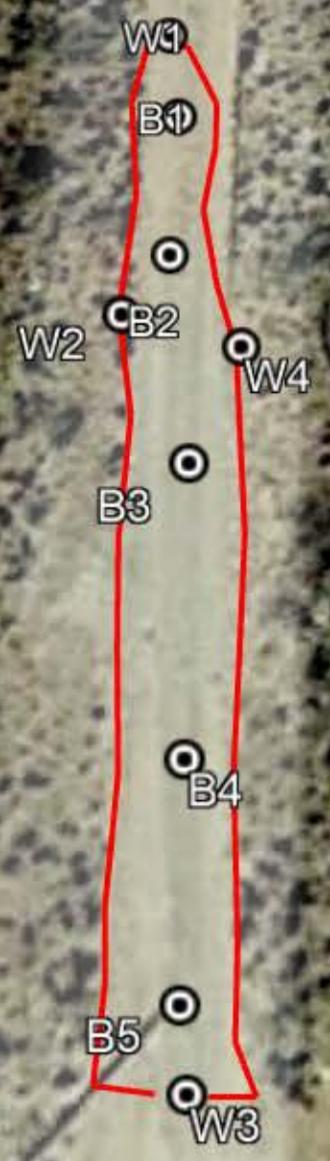
The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

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

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-470-3407
Jennifer.Nobui@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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50 ft

Final Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
12/15/2022	B1	3'	448	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3445990, -103.2261530
12/15/2022	B2	3'	544	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3445505, -103.2261540
12/15/2022	B3	3'	432	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3444741, -103.2261457
12/15/2022	B4	3'	512	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3443829, -103.2261386
12/15/2022	B5	3'	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3443137, -103.2261373
12/15/2022	W1	0-3'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3447313, -103.2261584
12/15/2022	W2	0-3'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3445194, -103.2261614
12/15/2022	W3	0-3'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3442817, -103.2261363
12/15/2022	W4	0-3'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3445089, -103.2261276



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

December 20, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SOUTH RIVER QUEEN UNIT 436

Enclosed are the results of analyses for samples received by the laboratory on 12/15/22 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

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:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT 436	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 1 @ 3' (H225930-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2022	ND	2.04	102	2.00	2.71	
Toluene*	<0.050	0.050	12/19/2022	ND	2.15	108	2.00	2.45	
Ethylbenzene*	<0.050	0.050	12/19/2022	ND	2.15	107	2.00	0.165	
Total Xylenes*	<0.150	0.150	12/19/2022	ND	6.56	109	6.00	0.549	
Total BTEX	<0.300	0.300	12/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/19/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	219	109	200	0.677	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	227	114	200	7.78	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT 436	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 2 @ 3' (H225930-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2022	ND	2.04	102	2.00	2.71	
Toluene*	<0.050	0.050	12/19/2022	ND	2.15	108	2.00	2.45	
Ethylbenzene*	<0.050	0.050	12/19/2022	ND	2.15	107	2.00	0.165	
Total Xylenes*	<0.150	0.150	12/19/2022	ND	6.56	109	6.00	0.549	
Total BTEX	<0.300	0.300	12/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/19/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	219	109	200	0.677	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	227	114	200	7.78	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.5 % 46.3-178

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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:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT 436	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 3 @ 3' (H225930-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2022	ND	2.04	102	2.00	2.71	
Toluene*	<0.050	0.050	12/19/2022	ND	2.15	108	2.00	2.45	
Ethylbenzene*	<0.050	0.050	12/19/2022	ND	2.15	107	2.00	0.165	
Total Xylenes*	<0.150	0.150	12/19/2022	ND	6.56	109	6.00	0.549	
Total BTEX	<0.300	0.300	12/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	12/19/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	219	109	200	0.677	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	227	114	200	7.78	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 92.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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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:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT 436	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 4 @ 3' (H225930-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2022	ND	2.04	102	2.00	2.71	
Toluene*	<0.050	0.050	12/19/2022	ND	2.15	108	2.00	2.45	
Ethylbenzene*	<0.050	0.050	12/19/2022	ND	2.15	107	2.00	0.165	
Total Xylenes*	<0.150	0.150	12/19/2022	ND	6.56	109	6.00	0.549	
Total BTEX	<0.300	0.300	12/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	12/19/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	219	109	200	0.677	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	227	114	200	7.78	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 88.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT 436	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 5 @ 3' (H225930-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2022	ND	2.15	107	2.00	2.13	
Toluene*	<0.050	0.050	12/19/2022	ND	2.24	112	2.00	2.45	
Ethylbenzene*	<0.050	0.050	12/19/2022	ND	2.28	114	2.00	2.40	
Total Xylenes*	<0.150	0.150	12/19/2022	ND	6.78	113	6.00	2.18	
Total BTEX	<0.300	0.300	12/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/19/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	219	109	200	0.677	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	227	114	200	7.78	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT 436	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 1 BGS 0-3' (H225930-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2022	ND	2.15	107	2.00	2.13	
Toluene*	<0.050	0.050	12/19/2022	ND	2.24	112	2.00	2.45	
Ethylbenzene*	<0.050	0.050	12/19/2022	ND	2.28	114	2.00	2.40	
Total Xylenes*	<0.150	0.150	12/19/2022	ND	6.78	113	6.00	2.18	
Total BTEX	<0.300	0.300	12/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/19/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	219	109	200	0.677	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	227	114	200	7.78	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.4 % 46.3-178

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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:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT 436	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 2 BGS 0-3' (H225930-07)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2022	ND	2.15	107	2.00	2.13	
Toluene*	<0.050	0.050	12/19/2022	ND	2.24	112	2.00	2.45	
Ethylbenzene*	<0.050	0.050	12/19/2022	ND	2.28	114	2.00	2.40	
Total Xylenes*	<0.150	0.150	12/19/2022	ND	6.78	113	6.00	2.18	
Total BTEX	<0.300	0.300	12/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/19/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	219	109	200	0.677	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	227	114	200	7.78	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT 436	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 3 BGS 0-3' (H225930-08)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2022	ND	2.15	107	2.00	2.13	
Toluene*	<0.050	0.050	12/19/2022	ND	2.24	112	2.00	2.45	
Ethylbenzene*	<0.050	0.050	12/19/2022	ND	2.28	114	2.00	2.40	
Total Xylenes*	<0.150	0.150	12/19/2022	ND	6.78	113	6.00	2.18	
Total BTEX	<0.300	0.300	12/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/19/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	219	109	200	0.677	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	227	114	200	7.78	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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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:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/20/2022	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT 436	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 4 BGS 0-3' (H225930-09)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2022	ND	2.15	107	2.00	2.13	
Toluene*	<0.050	0.050	12/19/2022	ND	2.24	112	2.00	2.45	
Ethylbenzene*	<0.050	0.050	12/19/2022	ND	2.28	114	2.00	2.40	
Total Xylenes*	<0.150	0.150	12/19/2022	ND	6.78	113	6.00	2.18	
Total BTEX	<0.300	0.300	12/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/19/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2022	ND	198	99.0	200	1.87	
DRO >C10-C28*	<10.0	10.0	12/17/2022	ND	208	104	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	12/17/2022	ND					

Surrogate: 1-Chlorooctane 62.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 67.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: *Apache*
 Project Manager: *Bruce Baker*
 Address:
 City: *Hobbs* State: *NM* Zip: *88400*
 Phone #: *7* Fax #: _____
 Project #: _____ Project Owner:
 Project Name:
 Project Location: *South River Queen Unit 43C*
 Sampler Name: *Soc Dreesack*
 P.O. #: _____ Company:
 Attn: _____ Address:
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	CI	BTEX	EXT TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
<i>H225930</i>	<i>B1@3'</i>	<input type="checkbox"/>	<i>1/3/15</i>	<i>8:18AM</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
	<i>B2@3'</i>	<input type="checkbox"/>		<i>8:20AM</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
	<i>B3@3'</i>	<input type="checkbox"/>		<i>8:22AM</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
	<i>B4@3'</i>	<input type="checkbox"/>		<i>8:24AM</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
	<i>B5@3'</i>	<input type="checkbox"/>		<i>8:26AM</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
	<i>B6@3'</i>	<input type="checkbox"/>		<i>8:24AM</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
	<i>B7@3'</i>	<input type="checkbox"/>		<i>8:16AM</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
	<i>B8@3'</i>	<input type="checkbox"/>		<i>8:18AM</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
	<i>B9@3'</i>	<input type="checkbox"/>		<i>8:20AM</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										

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Relinquished By: *Soc Dreesack*
 Date: *1/15/22*
 Received By: *[Signature]*
 Date: *3:00pm*
 Received By: *[Signature]*

Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS: *E-Mail Results*

Delivered By: (Circle One) Observed Temp. °C *2.4* Sample Condition: Cool Intact Yes No
 Corrected Temp. °C *1.8* Checked By: (Initials) *SD*
 Turbaround Time: _____ Standard Rush
 Thermometer ID #113 Bacteria (only) Sample Condition: Cool Intact Yes No
 Correction Factor -0.6°C Observed Temp. °C _____ Corrected Temp. °C _____



South Elevation

☉ 355°N (T) ☉ 32°20'39"N, 103°13'34"W ±9ft ▲ 3435ft



South Elevation

☉ 344°N (T) ● 32°20'39"N, 103°13'34"W ±13ft ▲ 3451ft



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 173003

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 173003
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	1/31/2023