



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

August 8, 2024

Re: Oxy Malt-O-Meal State # 1 Battery
Case # 2RP-4506/ nAB1733957568

On 11/22/2017 a release occurred due to a gasket failure on the heater treater. The release area is located east of Artesia, New Mexico (GPS Coordinates 32.8177147, -104.1701431) in unit letter L section 22 township 17S range 28E. A search for groundwater wells in the vicinity of the release was conducted utilizing information obtained from the NMOSE and USGS. The estimated groundwater level below the release is 58 feet. A remediation plan was submitted and approved by OCD on 6/14/2018.

In 2018 the release area was excavated to depths of 6 inches to 3 feet. All excavated material was hauled to an OCD approved disposal facility. Final samples were collected in accordance with the approved remediation plan and submitted to a commercial laboratory for chloride, TPH, and BTEX. The area inside the battery next to the heater treater was excavated to a depth of 6 inches. A vertical was advanced at SP 5 to a depth of 14 feet with a hand auger to its maximum depth. The battery is at a higher elevation than the pasture area due to the construction of the pad for the battery. A deeper excavation could not be achieved due to the heater treater being in the area. Individual grab samples along with 3 five-point bottom composite samples not to exceed 200 square feet were collected in the release area on the pad. Two individual sample points (SP 6 and SP 13) were slightly over table one standards for TPH for releases 51-100 feet to groundwater. The composite samples confirmed that the two areas were small and not representative of the overall area. The pasture area was backfilled with clean imported topsoil to ground surface and contoured to the surrounding area. The pasture area was re-seeded in accordance with the New Mexico State Land Office guidance.

Upon review of the lab data, it was observed that a few wall samples were not taken to a commercial laboratory and two bottom samples collected at 3 feet at SP 1 and SP 4 were above OCD reclamation standards for the top four feet. In October 2020 Apache Corporation utilizing a drawn map and GPS coordinates went back to those area and collected wall samples utilizing a hand auger and submitted to a commercial laboratory for analysis of chloride. A hand auger was advanced at SP 1 and SP 4 to a depth of 4 feet. Samples were collected in one-foot intervals and field titrated for chlorides. Field titrations were reclamation standards in both areas at 3 feet. The top 3 feet was excavated and stockpiled near the excavation. Then in both areas the 3-4-foot intervals were removed and hauled to an OCD approved disposal facility. A bottom grab sample was collected and submitted to a commercial laboratory for analysis of chloride at 4 feet. 5-point wall composite samples were collected on each wall of both excavations at the 3-to-4-foot interval and submitted to a commercial laboratory for analysis of chloride. The top 3 feet of excavated soil was returned to the excavation and clean imported topsoil was utilized to complete backfilling to ground surface and contoured to the surrounding area. The disturbed area was re-seeded.

OCD denied closure report on 9/21/2022 due to groundwater interpretation and horizontal sampling was not adequate. After conversation with the agency, they accepted the groundwater data and asked to take horizontal samples. On 10/7/2022 5- point horizontal composite samples were collected on the lease pad not to exceed 200 square feet and a grab sample was collected at W2. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

Apache Corporation has completed remediation to table one standards for releases 51-100 and reclaimed the pasture to reclamation standards. Apache Corporation respectfully request closure of this event.

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

Submitted by.

Larry Baker

Environmental Specialist Sr.

larry.baker@apachecorp.com

Cell# 432-250-8384

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 Specialist Sr.
 Signature: *Larry Baker* Date: 8/9/2024
 email: larry.baker@apachecorp.com Telephone: 432-250-8384

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: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NOV 29 2017

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
RECEIVED accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB1733A575UB

OPERATOR

Initial Report Final Report

Name of Company	Apache Corporation <i>#B73</i>	Contact	Bruce Baker
Address	2350 W Marland Street, Hobbs, NM 88240	Telephone No.	(432) 631-6982
Facility Name	Oxy Malt-O-Meal State # 1 Battery	Facility Type	Battery

Surface Owner State	Mineral Owner State	API No.	30-015-30577
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	22	17S	28E	1800'	FSL	660'	FWL	Eddy

Latitude 32.8177147 Longitude -104.1701431

NATURE OF RELEASE

Type of Release	Oil and Produced Water	Volume of Release	4 barrels of oil and 4 barrels of produced water	Volume Recovered	3 barrels of oil and 1 barrel of produced water
Source of Release	Heater Treater	Date and Hour of Occurrence	11/22/2017	Date and Hour of Discovery	11/22/2017 at 8:30 a.m.
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Bruce Baker	Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The gasket on the heater treater failed resulting in the release of fluids. The heater treater was isolated and a vacuum truck was dispatched to pick up standing fluid.

Describe Area Affected and Cleanup Action Taken.*

The release affected the area in the containment around the heater treater and approximately 1,000 square feet of pasture northeast of facility. Another area of pasture approximately 300 square feet was affected by overspray northwest of the facility. The release area was mapped and surface field samples collected.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Bruce Baker</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Bruce Baker	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Environmental Technician	Approval Date: <i>11/30/17</i>	Expiration Date: <i>N/A</i>
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval: <i>See Attached</i>	Attached <input type="checkbox"/> <i>2RP-4500</i>
Date: 11/29/2017	Phone: (432) 631-6982	

* Attach Additional Sheets If Necessary

From: [Maxwell, Ashley, EMNRD](#)
To: [Baker, Larry](#)
Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 10913
Date: Wednesday, September 21, 2022 11:48:22 AM

Bruce,

Thank you for your quick response. I appreciate the additional information. OCD accepts groundwater at 58 feet per the previous agency approval. Please send me a follow up email once you have submitted a report with the additional horizontal samples to the permitting portal.

Let me know if you have any additional questions.

Thanks,
Ashley

Ashley Maxwell • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>

From: Baker, Larry <Larry.Baker@apachecorp.com>
Sent: Wednesday, September 21, 2022 9:13 AM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 10913

Ms. Maxwell,

I see your point on the horizontal delineation but in regards to groundwater a remediation plan was submitted indicating that groundwater was 58 feet. OCD approved that plan without any dispute regarding the depth of groundwater which an operator has to conclude that the depth of groundwater was agreed to by the agency at the time of approval. Apache Corporation will collect horizontal samples that demonstrate that contamination has not left the pad area but would like for the agency to reconsider its position on the depth to groundwater since the agency approved the plan with no dispute of the groundwater data provided. 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* 432-215-2284
APACHE CORPORATION
303 Veterans Airpark Lane

1220 South St. Francis Drive
Santa Fe, NM 87505

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 W16
 W13 W15
 W14

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40 ft
 Released to Imaging: 10/3/2024 8:15:09 AM
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Pasture Final Wall Samples

Date	Map ID	Sample ID	Depth	Lab Cl-	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS
10/8/2018	W1	WP1		48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8179823, -104.169817
10/8/2018	W2	WP2		208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	177	33	32.8180271, -104.1696325
10/8/2018	W3	WP3		<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8180539, -104.1695037
10/8/2018	W4	WP4		80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8180635, -104.1693176
10/8/2018	W5	WP5		80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8181429, -104.1692663
10/8/2018	W6	WP6		32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.818058, -104.1693760
8/7/2020	W7	WP7		<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.818156, -104.1693723
10/10/2018	W8	WP 8		80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8180959, -104.1695617
8/7/2020	W8	WP8		<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/10/2018	W9	WP9		96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8180779, -104.1697193
8/7/2020	W9	WP 9		32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/19/2018	W10	East Point 1@ 3'		144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.81800345, -104.1698262
10/19/2018	W11	North Point 1@ 3'		736	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	N/A
10/23/2020	W11	W11		112									

10/23/2020	W12	W12		80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/23/2020	W13	W13		336									32.818019, -104.169864
10/23/2020	W14	W14		416									32.818007, -104.169850
10/23/2020	W15	W15		160									32.818021, -104.169831
10/23/2020	W16	W16		144									32.818033, -104.169847
10/23/2020	W17	W17		160									32.818063, -104.169886
10/23/2020	W18	W18		192									32.818050, -104.169870
10/23/2020	W19	W19		112									32.818064, -104.169854
10/23/2020	W20	W20		352									32.818064, -104.169854

Pasture Final Bottom Samples

Date	Lab ID	Depth	Lab Cl-	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS
10/8/2018	SP1 @3'	3'	1540	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.818018, 104.169854
10/23/2020	SP 1	4'	752									
10/8/2018	SP2@3'	3'	480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8180643, -104.1698417
10/8/2018	SP3@3'	3'	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8180480, -104.1697837
10/8/2018	SP4@3'	3'	1170	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.818062, -104.169876
10/23/2020	SP4@3'	4'	144									

Field Cl- Vertical Data

Date	Sample ID	Depth	Field CL-
10/23/2020	SP 1	1'	147
		2'	171
		3'	737
		4'	749

10/23/2020	SP 4	1'	169
		2'	171
		3'	640
		4'	437



SP4
 SP3
 SP1
 WP1
 SP5
 SP17
 SP14
 SP8
 SP7
 SP11
 SP6
 SP12
 SP15
 SP10
 SP16
 SP9
 SP13
 W12
 W10
 WP9
 WP2
 WP3
 WP8

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Battery and Pad Samples

Date	Sample ID	Depth	Field Cl-	Lab Cl-	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
10/10/2018	SP 5	12'	1679	2240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	45.9	<10.0
		14'		1230	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
10/10/2018	SP 6	6"	962	1040	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1080	211
10/10/2018	SP 7	6"	245	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	286	114
10/10/2018	SP 8	6"	382	288	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.3	22.1
10/10/2018	SP 9	6"	4524	7520	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
10/10/2018	SP 10	6"	491	368	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
10/10/2018	SP11	6"	633	288	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
10/10/2018	SP12	6"	4706									
10/10/2018	SP 13	6"	267	16	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	1040	190
10/10/2018	SP14	6"	N/A									
10/10/2018	SP15	6"	N/A									
10/10/2018	SP16	6"	N/A									
10/10/2018	SP 17	6"	N/A	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
10/10/2018	CP1	6"	N/A	1570	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	168	41.2
10/10/2018	CP2	6"	N/A	4560	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	117	40.9
10/10/2018	CP3	6"	N/A	2200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.3	<10.0

Final Samples Collected 10/7/2022

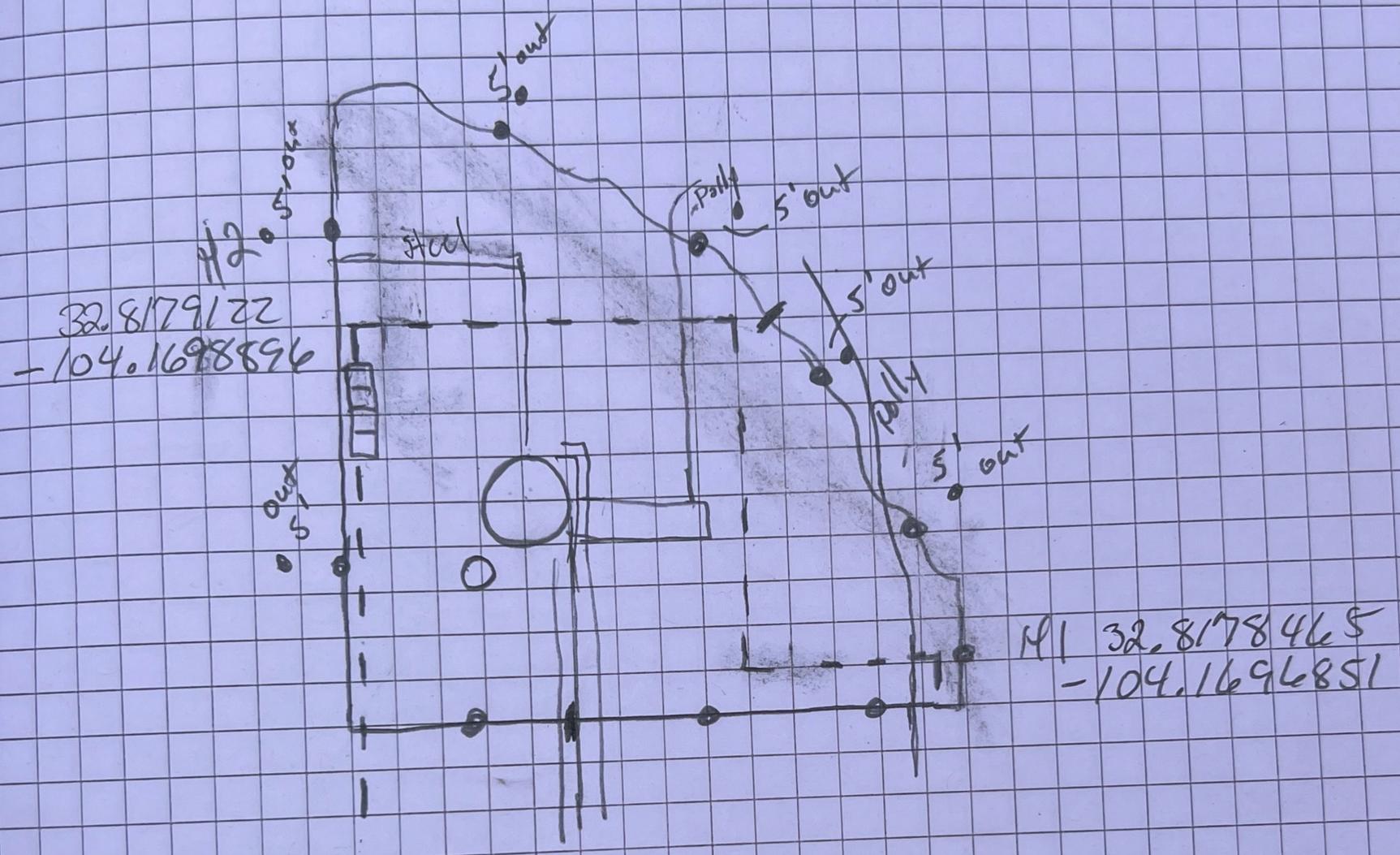
Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
10/7/2022	W2	1.3'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8180271 -104.169325
	H1	Surface	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8178465, -104.1696851
	H2	Surface	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8179122, -104.1698896



93 ft

Oct 7 2022

Apache Oxy Malt-O-meal



W2 @ 15" in pasture
 32.8180271
 -104.169325



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

August 12, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: MALT-O-MEAL ST #1

Enclosed are the results of analyses for samples received by the laboratory on 08/07/20 13:54.

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 "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:	08/07/2020	Sampling Date:	08/07/2020
Reported:	08/12/2020	Sampling Type:	Soil
Project Name:	MALT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: WP 7 (H002058-01)

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	08/10/2020	ND	2.03	102	2.00	1.13	
Toluene*	<0.050	0.050	08/10/2020	ND	2.03	102	2.00	0.930	
Ethylbenzene*	<0.050	0.050	08/10/2020	ND	2.03	102	2.00	1.07	
Total Xylenes*	<0.150	0.150	08/10/2020	ND	5.92	98.7	6.00	1.06	
Total BTEX	<0.300	0.300	08/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/11/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2020	ND	196	98.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	08/11/2020	ND	197	98.4	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/11/2020	ND					

Surrogate: 1-Chlorooctane 93.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/07/2020	Sampling Date:	08/07/2020
Reported:	08/12/2020	Sampling Type:	Soil
Project Name:	MALT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: WP 8 (H002058-02)

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	08/10/2020	ND	2.03	102	2.00	1.13	
Toluene*	<0.050	0.050	08/10/2020	ND	2.03	102	2.00	0.930	
Ethylbenzene*	<0.050	0.050	08/10/2020	ND	2.03	102	2.00	1.07	
Total Xylenes*	<0.150	0.150	08/10/2020	ND	5.92	98.7	6.00	1.06	
Total BTEX	<0.300	0.300	08/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	<16.0	16.0	08/11/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2020	ND	196	98.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	08/11/2020	ND	197	98.4	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/11/2020	ND					

Surrogate: 1-Chlorooctane 88.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.9 % 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:	08/07/2020	Sampling Date:	08/07/2020
Reported:	08/12/2020	Sampling Type:	Soil
Project Name:	MALT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: WP 9 (H002058-03)

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	08/10/2020	ND	2.03	102	2.00	1.13	
Toluene*	<0.050	0.050	08/10/2020	ND	2.03	102	2.00	0.930	
Ethylbenzene*	<0.050	0.050	08/10/2020	ND	2.03	102	2.00	1.07	
Total Xylenes*	<0.150	0.150	08/10/2020	ND	5.92	98.7	6.00	1.06	
Total BTEX	<0.300	0.300	08/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	32.0	16.0	08/11/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2020	ND	196	98.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	08/11/2020	ND	197	98.4	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/11/2020	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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

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



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

October 26, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: OXY MALT-O-MEAL

Enclosed are the results of analyses for samples received by the laboratory on 10/23/20 17:19.

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 "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:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/26/2020	Sampling Type:	Soil
Project Name:	OXY MALT-O-MEAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 4' (H002840-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	10/26/2020	ND	432	108	400	3.77	

Sample ID: SP 4 @ 4' (H002840-02)

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	10/26/2020	ND	432	108	400	3.77	

Sample ID: W 11 (H002840-03)

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	10/26/2020	ND	432	108	400	7.69	

Cardinal Laboratories

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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:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/26/2020	Sampling Type:	Soil
Project Name:	OXY MALT-O-MEAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W 12 (H002840-04)

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	10/26/2020	ND	1.94	97.1	2.00	12.3	
Toluene*	<0.050	0.050	10/26/2020	ND	1.88	93.9	2.00	12.8	
Ethylbenzene*	<0.050	0.050	10/26/2020	ND	1.83	91.4	2.00	12.7	
Total Xylenes*	<0.150	0.150	10/26/2020	ND	5.28	87.9	6.00	12.4	
Total BTEX	<0.300	0.300	10/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	80.0	16.0	10/26/2020	ND	432	108	400	7.69	

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	10/26/2020	ND	213	106	200	5.43	
DRO >C10-C28*	<10.0	10.0	10/26/2020	ND	178	88.9	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	10/26/2020	ND					

Surrogate: 1-Chlorooctane 127 % 44.3-144

Surrogate: 1-Chlorooctadecane 130 % 42.2-156

Cardinal Laboratories

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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:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/26/2020	Sampling Type:	Soil
Project Name:	OXY MALT-O-MEAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W 13 (H002840-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/26/2020	ND	432	108	400	7.69	

Sample ID: W 14 (H002840-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	10/26/2020	ND	432	108	400	7.69	

Sample ID: W 15 (H002840-07)

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	10/26/2020	ND	432	108	400	7.69	

Sample ID: W 16 (H002840-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/26/2020	ND	432	108	400	7.69	

Sample ID: W 17 (H002840-09)

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	10/26/2020	ND	432	108	400	7.69	

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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:	10/23/2020	Sampling Date:	10/23/2020
Reported:	10/26/2020	Sampling Type:	Soil
Project Name:	OXY MALT-O-MEAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W 18 (H002840-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/26/2020	ND	432	108	400	7.69	

Sample ID: W 19 (H002840-11)

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	10/26/2020	ND	432	108	400	7.69	

Sample ID: W 20 (H002840-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/26/2020	ND	432	108	400	7.69	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Apache Corporation</i> Project Manager: <i>Bruce Baker</i>		P.O. #: Company:													
Address: City: State: Zip:		Attn: Address:													
Phone #: Fax #: Project #: Project Owner:		City: State: Zip:													
Project Name: <i>Dry-Malt-S-Meal</i> Project Location: <i>Dry-Malt-O-Meal</i>		State: Zip:													
Sampler Name: <i>Jeff Brown</i>		Phone #: Fax #:													
FOR LAB USE ONLY															
Lab I.D.: <i>HDD284D</i>	Sample I.D.:	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX: <table border="1" style="font-size: small;"> <tr><td>GROUNDWATER</td><td></td></tr> <tr><td>WASTEWATER</td><td></td></tr> <tr><td>SOIL</td><td></td></tr> <tr><td>OIL</td><td></td></tr> <tr><td>SLUDGE</td><td></td></tr> <tr><td>OTHER :</td><td></td></tr> </table>	GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :	
GROUNDWATER															
WASTEWATER															
SOIL															
OIL															
SLUDGE															
OTHER :															
		ACID/BASE: ICE / COOL OTHER :	PRESERV:												
		DATE TIME	SAMPLING												
<i>1</i>	<i>SP1 @ 4'</i>		<i>10/23/20</i>												
<i>2</i>	<i>SP4 @ 4'</i>		<i>14:05</i>												
<i>3</i>	<i>W11</i>		<i>14:09</i>												
<i>4</i>	<i>W12</i>		<i>14:11</i>												
<i>5</i>	<i>W13</i>		<i>15:53</i>												
<i>6</i>	<i>W14</i>		<i>15:54</i>												
<i>7</i>	<i>W15</i>		<i>15:55</i>												
<i>8</i>	<i>W16</i>		<i>15:56</i>												
<i>9</i>	<i>W17</i>		<i>15:57</i>												
<i>10</i>	<i>W18</i>		<i>15:58</i>												

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Relinquished By: *Jeff Brown*
 Date: *10/23/20*
 Time: *5:19*
 Received By: *Wade Henderson*
 Date: _____
 Time: _____

Delivered By: (Circle One) *U.S.* Observed Temp. °C *4.5*
 Sampler - UPS - Bus - Other: Corrected Temp. °C _____
 Sample Condition: Intact Cool Yes No Yes No
 CHECKED BY: *[Signature]*
 Turnaround Time: *Standard* *Rush*
 Thermometer ID #113 Bacteria (only)
 Correction Factor None Cool Intact Sample Condition
 Corrected Temp. °C _____

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: *Apache Corporation*
 Project Manager: *Bruce Baker*
 Address: _____
 City: _____ State: _____ Zip: _____
 P.O. #: _____
 Company: _____
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Project #: _____
 Project Owner: _____
 Project Name: *Dry-Mat-O-Meat*
 Project Location: *Dry-Mat-O-Meat*
 Sampler Name: *Jeff Brown*
 P. O. #: _____
 Company: _____
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Project #: _____
 Project Owner: _____
 Project Name: _____
 Project Location: _____
 Sampler Name: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	CL	BTEX	EXT. TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
<i>HD0284D</i>													<i>10/23/20</i>	<i>15:59</i>	<i>✓</i>		
<i>11</i>	<i>W19</i>												<i>10/23/20</i>	<i>16:00</i>	<i>✓</i>		
<i>12</i>	<i>W20</i>																

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: _____
 Date: *10/23/20*
 Time: *5:15*
 Received By: *Scotti Stevenson*
 Date: _____
 Time: _____

Delivered By: (Circle One) Observed Temp. °C *4.5*
 Corrected Temp. °C _____
 Sampler - UPS - Bus - Other: _____
 Sample Condition: Cool Intact Yes No
 Checked By: *[Signature]*

Turnaround Time: _____ Standard Rush
 Bacteria (only) Sample Condition: Cool Intact Yes No
 Corrected Temp. °C _____
 Verbal Results: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____
 REMARKS: _____



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

October 16, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: MELT-O-MEAL ST #1

Enclosed are the results of analyses for samples received by the laboratory on 10/09/18 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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:	10/09/2018	Sampling Date:	10/08/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP #1 @ 3' (H802878-01)

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	10/11/2018	ND	2.08	104	2.00	0.394	
Toluene*	<0.050	0.050	10/11/2018	ND	2.05	103	2.00	0.223	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.08	104	2.00	0.0577	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	5.99	99.8	6.00	0.0492	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	10/11/2018	ND	448	112	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	10/11/2018	ND	200	100	200	0.492	
DRO >C10-C28*	<10.0	10.0	10/11/2018	ND	194	97.0	200	0.0124	
EXT DRO >C28-C36	<10.0	10.0	10/11/2018	ND					

Surrogate: 1-Chlorooctane 93.4 % 41-142

Surrogate: 1-Chlorooctadecane 93.6 % 37.6-147

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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:	10/09/2018	Sampling Date:	10/08/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP #2 @ 3' (H802878-02)

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	10/11/2018	ND	2.08	104	2.00	0.394	
Toluene*	<0.050	0.050	10/11/2018	ND	2.05	103	2.00	0.223	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.08	104	2.00	0.0577	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	5.99	99.8	6.00	0.0492	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	10/11/2018	ND	448	112	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	10/11/2018	ND	200	100	200	0.492	
DRO >C10-C28*	<10.0	10.0	10/11/2018	ND	194	97.0	200	0.0124	
EXT DRO >C28-C36	<10.0	10.0	10/11/2018	ND					

Surrogate: 1-Chlorooctane 92.7 % 41-142

Surrogate: 1-Chlorooctadecane 92.3 % 37.6-147

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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:	10/09/2018	Sampling Date:	10/08/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP #3 @ 3' (H802878-03)

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	10/11/2018	ND	2.08	104	2.00	0.394	
Toluene*	<0.050	0.050	10/11/2018	ND	2.05	103	2.00	0.223	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.08	104	2.00	0.0577	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	5.99	99.8	6.00	0.0492	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/11/2018	ND	448	112	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	10/11/2018	ND	200	100	200	0.492	
DRO >C10-C28*	<10.0	10.0	10/11/2018	ND	194	97.0	200	0.0124	
EXT DRO >C28-C36	<10.0	10.0	10/11/2018	ND					

Surrogate: 1-Chlorooctane 88.2 % 41-142

Surrogate: 1-Chlorooctadecane 87.8 % 37.6-147

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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:	10/09/2018	Sampling Date:	10/08/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP #4 @ 3' (H802878-04)

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	10/11/2018	ND	2.08	104	2.00	0.394	
Toluene*	<0.050	0.050	10/11/2018	ND	2.05	103	2.00	0.223	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.08	104	2.00	0.0577	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	5.99	99.8	6.00	0.0492	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	10/11/2018	ND	448	112	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	10/11/2018	ND	200	100	200	0.492	
DRO >C10-C28*	<10.0	10.0	10/11/2018	ND	194	97.0	200	0.0124	
EXT DRO >C28-C36	<10.0	10.0	10/11/2018	ND					

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 85.6 % 37.6-147

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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:	10/09/2018	Sampling Date:	10/08/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: WP #1 @ 1' (H802878-05)

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	10/11/2018	ND	2.08	104	2.00	0.394	
Toluene*	<0.050	0.050	10/11/2018	ND	2.05	103	2.00	0.223	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.08	104	2.00	0.0577	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	5.99	99.8	6.00	0.0492	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

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	10/11/2018	ND	448	112	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	10/11/2018	ND	200	100	200	0.492	
DRO >C10-C28*	<10.0	10.0	10/11/2018	ND	194	97.0	200	0.0124	
EXT DRO >C28-C36	<10.0	10.0	10/11/2018	ND					

Surrogate: 1-Chlorooctane 93.4 % 41-142

Surrogate: 1-Chlorooctadecane 93.3 % 37.6-147

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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:	10/09/2018	Sampling Date:	10/08/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: WP #2 @ 1' (H802878-06)

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	10/11/2018	ND	2.08	104	2.00	0.394	
Toluene*	<0.050	0.050	10/11/2018	ND	2.05	103	2.00	0.223	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.08	104	2.00	0.0577	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	5.99	99.8	6.00	0.0492	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/11/2018	ND	448	112	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	10/11/2018	ND	200	100	200	0.492	
DRO >C10-C28*	177	10.0	10/11/2018	ND	194	97.0	200	0.0124	
EXT DRO >C28-C36	33.0	10.0	10/11/2018	ND					

Surrogate: 1-Chlorooctane 81.3 % 41-142

Surrogate: 1-Chlorooctadecane 90.4 % 37.6-147

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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:	10/09/2018	Sampling Date:	10/08/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: WP #3 @ 1' (H802878-07)

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	10/11/2018	ND	2.08	104	2.00	0.394	
Toluene*	<0.050	0.050	10/11/2018	ND	2.05	103	2.00	0.223	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.08	104	2.00	0.0577	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	5.99	99.8	6.00	0.0492	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-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	10/11/2018	ND	448	112	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	10/11/2018	ND	200	100	200	0.492	
DRO >C10-C28*	<10.0	10.0	10/11/2018	ND	194	97.0	200	0.0124	
EXT DRO >C28-C36	<10.0	10.0	10/11/2018	ND					

Surrogate: 1-Chlorooctane 96.3 % 41-142

Surrogate: 1-Chlorooctadecane 96.4 % 37.6-147

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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:	10/09/2018	Sampling Date:	10/08/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: WP #4 @ 1' (H802878-08)

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	10/11/2018	ND	2.08	104	2.00	0.394	
Toluene*	<0.050	0.050	10/11/2018	ND	2.05	103	2.00	0.223	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.08	104	2.00	0.0577	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	5.99	99.8	6.00	0.0492	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/11/2018	ND	448	112	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	10/11/2018	ND	200	100	200	0.492	
DRO >C10-C28*	<10.0	10.0	10/11/2018	ND	194	97.0	200	0.0124	
EXT DRO >C28-C36	<10.0	10.0	10/11/2018	ND					

Surrogate: 1-Chlorooctane 97.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.8 % 37.6-147

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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:	10/09/2018	Sampling Date:	10/08/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: WP #5 @ 1' (H802878-09)

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	10/11/2018	ND	2.08	104	2.00	0.394	
Toluene*	<0.050	0.050	10/11/2018	ND	2.05	103	2.00	0.223	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.08	104	2.00	0.0577	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	5.99	99.8	6.00	0.0492	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/11/2018	ND	448	112	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	10/11/2018	ND	200	100	200	0.492	
DRO >C10-C28*	<10.0	10.0	10/11/2018	ND	194	97.0	200	0.0124	
EXT DRO >C28-C36	<10.0	10.0	10/11/2018	ND					

Surrogate: 1-Chlorooctane 93.7 % 41-142

Surrogate: 1-Chlorooctadecane 95.0 % 37.6-147

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:	10/09/2018	Sampling Date:	10/08/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: WP #6 @ 1' (H802878-10)

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	10/11/2018	ND	2.08	104	2.00	0.394	
Toluene*	<0.050	0.050	10/11/2018	ND	2.05	103	2.00	0.223	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.08	104	2.00	0.0577	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	5.99	99.8	6.00	0.0492	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

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	10/11/2018	ND	448	112	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	10/11/2018	ND	200	100	200	0.492	
DRO >C10-C28*	<10.0	10.0	10/11/2018	ND	194	97.0	200	0.0124	
EXT DRO >C28-C36	<10.0	10.0	10/11/2018	ND					

Surrogate: 1-Chlorooctane 98.3 % 41-142

Surrogate: 1-Chlorooctadecane 98.7 % 37.6-147

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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

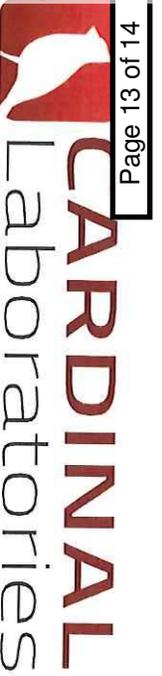
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Apache
 Project Manager: Bruce Baker
 Address: _____
 City: Hobbs State: NM Zip: 88240
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: _____

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

Project Location: Oxy-Mult O well St #1
 Sampler Name: Joe Olin Sacke
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)GRAB OR (C)COMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<u>A82878</u>	<u>SP #1</u>	<u>(G)</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>10-8-8</u>	<u>11:52 AM</u>	<u>Ext. TPH</u>						
	<u>SP #2</u>	<u>(G)</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>10-8-8</u>	<u>11:55 AM</u>	<u>BTEX</u>						
	<u>SP #3</u>	<u>(G)</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>10-8-8</u>	<u>12:05 PM</u>							
	<u>SP #4</u>	<u>(G)</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>10-8-8</u>	<u>12:13 PM</u>							
	<u>WP #1</u>	<u>(C)</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>10-8-8</u>	<u>11:54 AM</u>							
	<u>WP #2</u>	<u>(C)</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>10-8-8</u>	<u>12:01 PM</u>							
	<u>WP #3</u>	<u>(C)</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>10-8-8</u>	<u>12:08 PM</u>							
	<u>WP #4</u>	<u>(C)</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>10-8-8</u>	<u>12:13 PM</u>							
	<u>WP #5</u>	<u>(C)</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>10-8-8</u>	<u>12:19 PM</u>							
	<u>WP #6</u>	<u>(C)</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>10-8-8</u>	<u>12:24 PM</u>							

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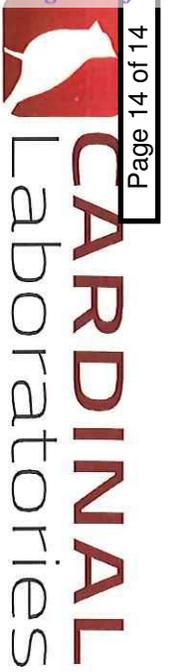
Relinquished By: Sosel Dunc Date: 10-9-18 Time: 10:15
 Received By: Jerman Blakely

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: 36c #97
 Sample Condition: Cool Intact
 Yes No

CHECKED BY: (Initials) JA

* Cardinal cannot accept verbal chain-of-custody. Please fax written chain-of-custody to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Apaches</u> Project Manager: <u>Bruce Baker</u>		P.O. #: Company:	
Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn: Address:	
Phone #: Project #: Project Name:		City: State: Zip:	
Project Location: <u>Dry mlt 0 med STA#1</u>		Phone #: Fax #:	
Sampler Name: <u>Joe Quiscido</u>		PRESERV ICE / COOL OTHER:	
FOR LAB USE ONLY		SAMPLING DATE TIME	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS
12 WP # 8 @ 1'		GROUNDWATER	WASTEWATER
13 WP # 9 @ 1'		SOIL	OIL
14 SP5 @ 3'		SLUDGE	OTHER:
15 SP5 @ 3'		ACID/BASE:	ICE / COOL
16 SP5 @ 4'		OTHER:	OTHER:
17 SP5 @ 4'		DATE 10/5/18	TIME 14:30
18 WP # 7 @ 1'		10-8-18 2:30pm	10-8-18 2:30pm
19 WP # 9 @ 1'		10-8-18 2:43pm	10-8-18 2:43pm
20 SP5 @ 3'		10-8-18 3:24pm	10-8-18 3:24pm
21 SP5 @ 3'		10-8-18 3:46pm	10-8-18 3:46pm
22 SP5 @ 4'		10-8-18 3:50pm	10-8-18 3:50pm
23 SP5 @ 4'		10-8-18 4:00pm	10-8-18 4:00pm
Relinquished By: <u>[Signature]</u> Date: <u>10-9-18</u> Time: <u>14:15</u>		Received By: <u>[Signature]</u>	
Relinquished By: <u>[Signature]</u> Date: <u>10-9-18</u> Time: <u>14:15</u>		Received By: <u>[Signature]</u>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>3.6c #97</u>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
CHECKED BY: (Initials) <u>[Initials]</u>		REMARKS:	
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		Add'l Phone #:	
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:		Add'l Fax #:	
REMARKS:		10/11/18 Canceled	

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

October 17, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: MELT-O-MEAL ST #1

Enclosed are the results of analyses for samples received by the laboratory on 10/10/18 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/10/2018	Sampling Date:	10/10/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 6 @ 6" (H802895-01)

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	10/12/2018	ND	1.96	98.0	2.00	3.32	
Toluene*	<0.050	0.050	10/12/2018	ND	1.82	90.9	2.00	5.13	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	1.81	90.5	2.00	4.41	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	5.38	89.7	6.00	4.17	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	10/15/2018	ND	384	96.0	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	10/12/2018	ND	190	95.0	200	0.209		
DRO >C10-C28*	1080	50.0	10/12/2018	ND	195	97.7	200	1.78	QM-07	
EXT DRO >C28-C36	211	50.0	10/12/2018	ND						

Surrogate: 1-Chlorooctane 99.5 % 41-142

Surrogate: 1-Chlorooctadecane 151 % 37.6-147

Cardinal Laboratories

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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:	10/10/2018	Sampling Date:	10/10/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 7 @ 6" (H802895-02)

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	10/12/2018	ND	1.96	98.0	2.00	3.32	
Toluene*	<0.050	0.050	10/12/2018	ND	1.82	90.9	2.00	5.13	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	1.81	90.5	2.00	4.41	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	5.38	89.7	6.00	4.17	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.8-142

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	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	190	95.0	200	0.209	
DRO >C10-C28*	286	10.0	10/12/2018	ND	195	97.7	200	1.78	
EXT DRO >C28-C36	114	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 95.8 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

Cardinal Laboratories

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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:	10/10/2018	Sampling Date:	10/10/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 8 @ 6" (H802895-03)

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	10/12/2018	ND	1.96	98.0	2.00	3.32	
Toluene*	<0.050	0.050	10/12/2018	ND	1.82	90.9	2.00	5.13	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	1.81	90.5	2.00	4.41	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	5.38	89.7	6.00	4.17	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	190	95.0	200	0.209	
DRO >C10-C28*	31.3	10.0	10/12/2018	ND	195	97.7	200	1.78	
EXT DRO >C28-C36	22.1	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 83.6 % 37.6-147

Cardinal Laboratories

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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:	10/10/2018	Sampling Date:	10/10/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 9 @ 6" (H802895-04)

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	10/12/2018	ND	1.96	98.0	2.00	3.32	
Toluene*	<0.050	0.050	10/12/2018	ND	1.82	90.9	2.00	5.13	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	1.81	90.5	2.00	4.41	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	5.38	89.7	6.00	4.17	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7520	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	190	95.0	200	0.209	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	195	97.7	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 95.0 % 41-142

Surrogate: 1-Chlorooctadecane 88.4 % 37.6-147

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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:	10/10/2018	Sampling Date:	10/10/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 5 @ 12' (H802895-05)

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	10/12/2018	ND	1.96	98.0	2.00	3.32	
Toluene*	<0.050	0.050	10/12/2018	ND	1.82	90.9	2.00	5.13	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	1.81	90.5	2.00	4.41	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	5.38	89.7	6.00	4.17	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	190	95.0	200	0.209	
DRO >C10-C28*	45.6	10.0	10/12/2018	ND	195	97.7	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 98.1 % 41-142

Surrogate: 1-Chlorooctadecane 94.7 % 37.6-147

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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:	10/10/2018	Sampling Date:	10/10/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 5 @ 14' (H802895-06)

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	10/12/2018	ND	1.96	98.0	2.00	3.32	
Toluene*	<0.050	0.050	10/12/2018	ND	1.82	90.9	2.00	5.13	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	1.81	90.5	2.00	4.41	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	5.38	89.7	6.00	4.17	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	190	95.0	200	0.209	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	195	97.7	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 96.3 % 41-142

Surrogate: 1-Chlorooctadecane 91.2 % 37.6-147

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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:	10/10/2018	Sampling Date:	10/10/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 10 @ 1' (H802895-07)

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	10/12/2018	ND	1.96	98.0	2.00	3.32	
Toluene*	<0.050	0.050	10/12/2018	ND	1.82	90.9	2.00	5.13	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	1.81	90.5	2.00	4.41	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	5.38	89.7	6.00	4.17	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	190	95.0	200	0.209	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	195	97.7	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 93.7 % 41-142

Surrogate: 1-Chlorooctadecane 88.0 % 37.6-147

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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:	10/10/2018	Sampling Date:	10/10/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP11 @ 6" (H802895-08)

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	10/12/2018	ND	1.96	98.0	2.00	3.32	
Toluene*	<0.050	0.050	10/12/2018	ND	1.82	90.9	2.00	5.13	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	1.81	90.5	2.00	4.41	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	5.38	89.7	6.00	4.17	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	190	95.0	200	0.209	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	195	97.7	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

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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:	10/10/2018	Sampling Date:	10/10/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 13 @ 6" (H802895-09)

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	10/12/2018	ND	1.96	98.0	2.00	3.32	
Toluene*	<0.050	0.050	10/12/2018	ND	1.82	90.9	2.00	5.13	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	1.81	90.5	2.00	4.41	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	5.38	89.7	6.00	4.17	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.8-142

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	10/15/2018	ND	384	96.0	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	10/11/2018	ND	194	97.1	200	2.97		
DRO >C10-C28*	1040	50.0	10/11/2018	ND	191	95.3	200	0.689	QM-07	
EXT DRO >C28-C36	190	50.0	10/11/2018	ND						

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 149 % 37.6-147

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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:	10/10/2018	Sampling Date:	10/10/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 17 @ 6" (H802895-10)

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	10/12/2018	ND	1.96	98.0	2.00	3.32	
Toluene*	<0.050	0.050	10/12/2018	ND	1.82	90.9	2.00	5.13	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	1.81	90.5	2.00	4.41	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	5.38	89.7	6.00	4.17	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	190	95.0	200	0.209	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	195	97.7	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 95.5 % 41-142

Surrogate: 1-Chlorooctadecane 85.0 % 37.6-147

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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:	10/10/2018	Sampling Date:	10/10/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CP #1 @ 6" (H802895-11)

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	10/12/2018	ND	1.96	98.0	2.00	3.32	
Toluene*	<0.050	0.050	10/12/2018	ND	1.82	90.9	2.00	5.13	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	1.81	90.5	2.00	4.41	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	5.38	89.7	6.00	4.17	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	190	95.0	200	0.209	
DRO >C10-C28*	168	10.0	10/12/2018	ND	195	97.7	200	1.78	
EXT DRO >C28-C36	41.2	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 84.5 % 41-142

Surrogate: 1-Chlorooctadecane 84.0 % 37.6-147

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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:	10/10/2018	Sampling Date:	10/10/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CP #2 @ 6" (H802895-12)

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	10/12/2018	ND	1.96	98.0	2.00	3.32	
Toluene*	<0.050	0.050	10/12/2018	ND	1.82	90.9	2.00	5.13	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	1.81	90.5	2.00	4.41	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	5.38	89.7	6.00	4.17	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	117	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	40.9	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 94.5 % 41-142

Surrogate: 1-Chlorooctadecane 97.4 % 37.6-147

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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:	10/10/2018	Sampling Date:	10/10/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CP #3 @ 6" (H802895-13)

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	10/12/2018	ND	1.96	98.0	2.00	3.32	
Toluene*	<0.050	0.050	10/12/2018	ND	1.82	90.9	2.00	5.13	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	1.81	90.5	2.00	4.41	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	5.38	89.7	6.00	4.17	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	17.3	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 93.2 % 41-142

Surrogate: 1-Chlorooctadecane 92.0 % 37.6-147

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:	10/10/2018	Sampling Date:	10/10/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: WP #8 @ 1' (H802895-14)

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	10/12/2018	ND	1.96	98.0	2.00	3.32	
Toluene*	<0.050	0.050	10/12/2018	ND	1.82	90.9	2.00	5.13	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	1.81	90.5	2.00	4.41	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	5.38	89.7	6.00	4.17	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 95.8 % 41-142

Surrogate: 1-Chlorooctadecane 92.8 % 37.6-147

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:	10/10/2018	Sampling Date:	10/10/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: WP #9 @ 1' (H802895-15)

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	10/12/2018	ND	1.96	98.0	2.00	3.32	
Toluene*	<0.050	0.050	10/12/2018	ND	1.82	90.9	2.00	5.13	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	1.81	90.5	2.00	4.41	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	5.38	89.7	6.00	4.17	
Total BTEX	<0.300	0.300	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/15/2018	ND	384	96.0	400	8.00	

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	10/12/2018	ND	192	96.2	200	0.369	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	189	94.3	200	0.397	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					

Surrogate: 1-Chlorooctane 94.9 % 41-142

Surrogate: 1-Chlorooctadecane 92.3 % 37.6-147

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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

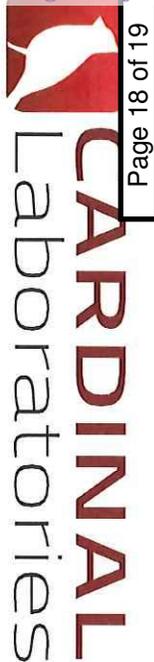
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

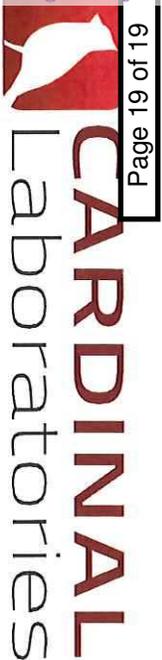
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Appexive</u>		P.O. #:		BILL TO		ANALYSIS REQUEST									
Project Manager: <u>Bruce Baker</u>		Company:													
Address:		Attn:													
City: <u>Hobbs</u>		State: <u>NM</u>		Zip: <u>88240</u>											
Phone #:		Fax #:		Address:											
Project #:		Project Owner:		City:											
Project Name:		State:		Zip:											
Project Location: <u>Cardinal Leasing Dry melt-G-mel SH</u>		Phone #:													
Sampler Name: <u>Joe Quispe</u>		Fax #:													
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING									
Lab I.D. <u>H02895</u>		Sample I.D.		(G)RAB OR (C)OMP.		DATE		TIME		CI		EXT. TPH		BTEX	
1		SP 6 @ 10"		1		10-10-18		9:50am		/		/		/	
2		SP 7 @ 6'		1		10-10-18		9:59am		/		/		/	
3		SP 8 @ 6'		1		10-10-18		10:05am		/		/		/	
4		SP 9 @ 10"		1		10-10-18		10:11am		/		/		/	
5		SP 5 @ 12'		1		10-10-18		10:20am		/		/		/	
6		SP 5 @ 14'		1		10-10-18		10:35am		/		/		/	
7		SP 10 @ 1'		1		10-10-18		11:04am		/		/		/	
8		SP 11 @ 6"		1		10-10-18		11:13pm		/		/		/	
9		SP 13 @ 6"		1		10-10-18		11:20pm		/		/		/	
10		SP 17 @ 10"		1		10-10-18		12:16		/		/		/	

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Relinquished By: Joe Quispe Date: 10-10-18 Time: 11:55
 Received By: Jamora Alder
 Delivered By: (Circle One) 575 #997 Sample Condition: Cool Intact
 Sampler - UPS - Bus - Other: 70 Yes No

REMARKS: Email results



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

61 of 19 page

BILL TO

ANALYSIS REQUEST

Company Name: <i>Speckle</i>		P.O. #:																		
Project Manager: <i>Bruce Baker</i>		Company:																		
Address:		Attn:																		
City: <i>Hobbs</i>		Address:																		
State: <i>NM</i> Zip: <i>88240</i>		City:																		
Phone #:		State:																		
Fax #:		Zip:																		
Project #: _____		Project Owner:																		
Project Name:																				
Project Location: <i>Dry melt p meal SL 1</i>		Phone #:																		
Sampler Name: <i>Joe Quiescena</i>		Fax #:																		
FOR LAB USE ONLY																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME						
<i>AS02875</i>																				
	<i>11</i>	<i>CP # 1</i>	<i>1</i>	<i>/</i>		<i>/</i>							<i>10-10-18</i>	<i>2:02pm</i>	<i>/</i>	<i>/</i>	<i>/</i>			
	<i>12</i>	<i>CP # 2</i>	<i>1</i>	<i>/</i>		<i>/</i>							<i>10-10-18</i>	<i>2:09pm</i>	<i>/</i>	<i>/</i>	<i>/</i>			
	<i>13</i>	<i>CP # 3</i>	<i>1</i>	<i>/</i>		<i>/</i>							<i>10-10-18</i>	<i>2:14pm</i>	<i>/</i>	<i>/</i>	<i>/</i>			
	<i>14</i>	<i>WSP # 8</i>	<i>1</i>	<i>/</i>		<i>/</i>							<i>10-10-18</i>	<i>2:20pm</i>	<i>/</i>	<i>/</i>	<i>/</i>			
	<i>15</i>	<i>WSP # 9</i>	<i>1</i>	<i>/</i>		<i>/</i>							<i>10-10-18</i>	<i>2:25pm</i>	<i>/</i>	<i>/</i>	<i>/</i>			

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Reinquired By: *[Signature]* Date: *10-10-18* Time: *12:55* Received By: *Jamarcus [Signature]*

Relinquished By: _____ Date: _____ Time: _____

Delivered By: (Circle One) UPS Bus Other: *Sic #97*

Sample Condition: Cool Intact Yes No

CHECKED BY: (Initials) *JP*

REMARKS: *Email Results*

Phone Result: Yes No Add'l Phone #: _____

Fax Result: Yes No Add'l Fax #: _____



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

October 24, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: MELT-O-MEAL ST #1

Enclosed are the results of analyses for samples received by the laboratory on 10/19/18 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/19/2018	Sampling Date:	10/19/2018
Reported:	10/24/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: EAST POINT 1 @ 3' (H803016-01)

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	10/22/2018	ND	2.34	117	2.00	2.12	
Toluene*	<0.050	0.050	10/22/2018	ND	2.22	111	2.00	0.802	
Ethylbenzene*	<0.050	0.050	10/22/2018	ND	2.18	109	2.00	2.88	
Total Xylenes*	<0.150	0.150	10/22/2018	ND	6.66	111	6.00	2.30	
Total BTEX	<0.300	0.300	10/22/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/23/2018	ND	432	108	400	7.69	

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	10/22/2018	ND	216	108	200	2.31	
DRO >C10-C28*	<10.0	10.0	10/22/2018	ND	211	106	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	10/22/2018	ND					

Surrogate: 1-Chlorooctane 85.7 % 41-142

Surrogate: 1-Chlorooctadecane 81.0 % 37.6-147

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:	10/19/2018	Sampling Date:	10/19/2018
Reported:	10/24/2018	Sampling Type:	Soil
Project Name:	MELT-O-MEAL ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: NORTH POINT 1 @ 3' (H803016-02)

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	10/22/2018	ND	2.34	117	2.00	2.12	
Toluene*	<0.050	0.050	10/22/2018	ND	2.22	111	2.00	0.802	
Ethylbenzene*	<0.050	0.050	10/22/2018	ND	2.18	109	2.00	2.88	
Total Xylenes*	<0.150	0.150	10/22/2018	ND	6.66	111	6.00	2.30	
Total BTEX	<0.300	0.300	10/22/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	10/23/2018	ND	432	108	400	7.69	

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	10/22/2018	ND	216	108	200	2.31	
DRO >C10-C28*	<10.0	10.0	10/22/2018	ND	211	106	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	10/22/2018	ND					

Surrogate: 1-Chlorooctane 90.1 % 41-142

Surrogate: 1-Chlorooctadecane 86.3 % 37.6-147

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

October 12, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: OXY MALT-O-MEAL

Enclosed are the results of analyses for samples received by the laboratory on 10/07/22 13:30.

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:	10/07/2022	Sampling Date:	10/07/2022
Reported:	10/12/2022	Sampling Type:	Soil
Project Name:	OXY MALT-O-MEAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 2 @ 1'3" (H224722-01)

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	10/11/2022	ND	1.95	97.4	2.00	1.84	
Toluene*	<0.050	0.050	10/11/2022	ND	1.92	96.0	2.00	3.03	
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	1.89	94.5	2.00	2.49	
Total Xylenes*	<0.150	0.150	10/11/2022	ND	5.77	96.2	6.00	2.72	
Total BTEX	<0.300	0.300	10/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2022	ND	384	96.0	400	4.08	

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	10/11/2022	ND	195	97.4	200	4.38	
DRO >C10-C28*	<10.0	10.0	10/11/2022	ND	192	96.1	200	12.6	
EXT DRO >C28-C36	<10.0	10.0	10/11/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/07/2022	Sampling Date:	10/07/2022
Reported:	10/12/2022	Sampling Type:	Soil
Project Name:	OXY MALT-O-MEAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 1 SURFACE (H224722-02)

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	10/11/2022	ND	1.95	97.4	2.00	1.84	
Toluene*	<0.050	0.050	10/11/2022	ND	1.92	96.0	2.00	3.03	
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	1.89	94.5	2.00	2.49	
Total Xylenes*	<0.150	0.150	10/11/2022	ND	5.77	96.2	6.00	2.72	
Total BTEX	<0.300	0.300	10/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2022	ND	384	96.0	400	4.08	

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	10/11/2022	ND	195	97.4	200	4.38	
DRO >C10-C28*	<10.0	10.0	10/11/2022	ND	192	96.1	200	12.6	
EXT DRO >C28-C36	<10.0	10.0	10/11/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 128 % 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:	10/07/2022	Sampling Date:	10/07/2022
Reported:	10/12/2022	Sampling Type:	Soil
Project Name:	OXY MALT-O-MEAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 2 SURFACE (H224722-03)

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	10/11/2022	ND	1.95	97.4	2.00	1.84	
Toluene*	<0.050	0.050	10/11/2022	ND	1.92	96.0	2.00	3.03	
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	1.89	94.5	2.00	2.49	
Total Xylenes*	<0.150	0.150	10/11/2022	ND	5.77	96.2	6.00	2.72	
Total BTEX	<0.300	0.300	10/11/2022	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	208	16.0	10/11/2022	ND	384	96.0	400	4.08	

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	10/11/2022	ND	195	97.4	200	4.38	
DRO >C10-C28*	<10.0	10.0	10/11/2022	ND	192	96.1	200	12.6	
EXT DRO >C28-C36	<10.0	10.0	10/11/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 130 % 46.3-178

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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

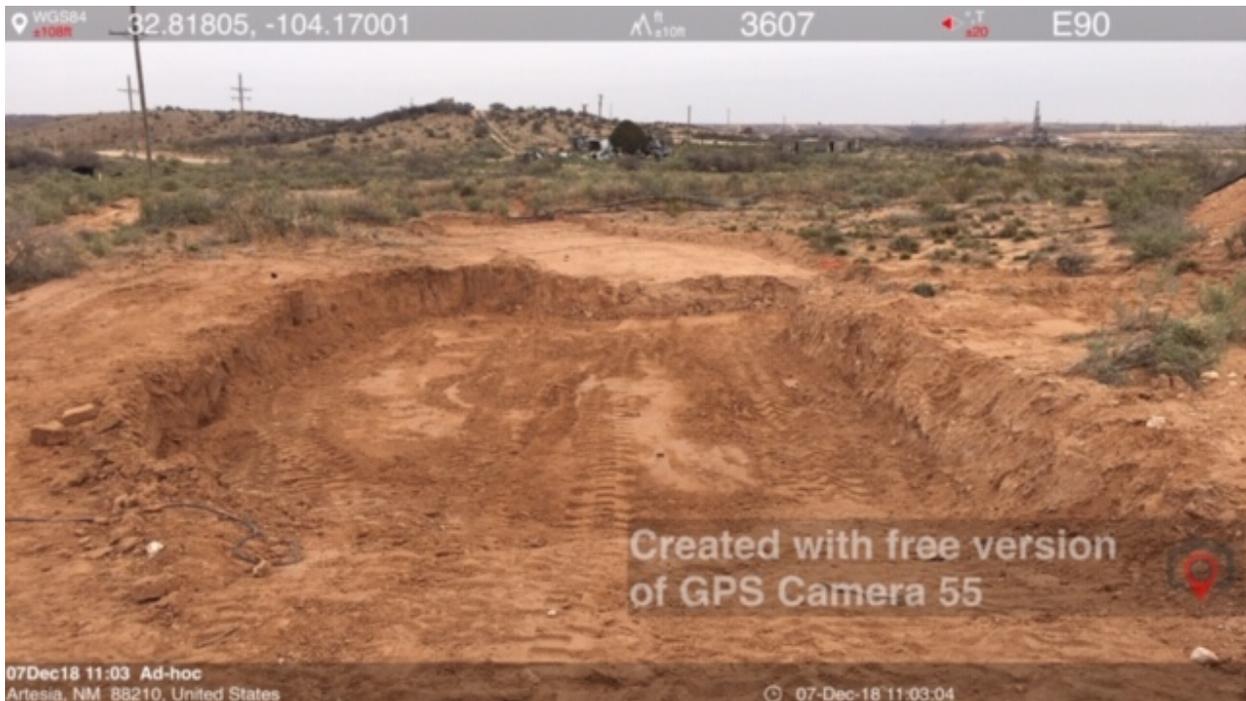
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager







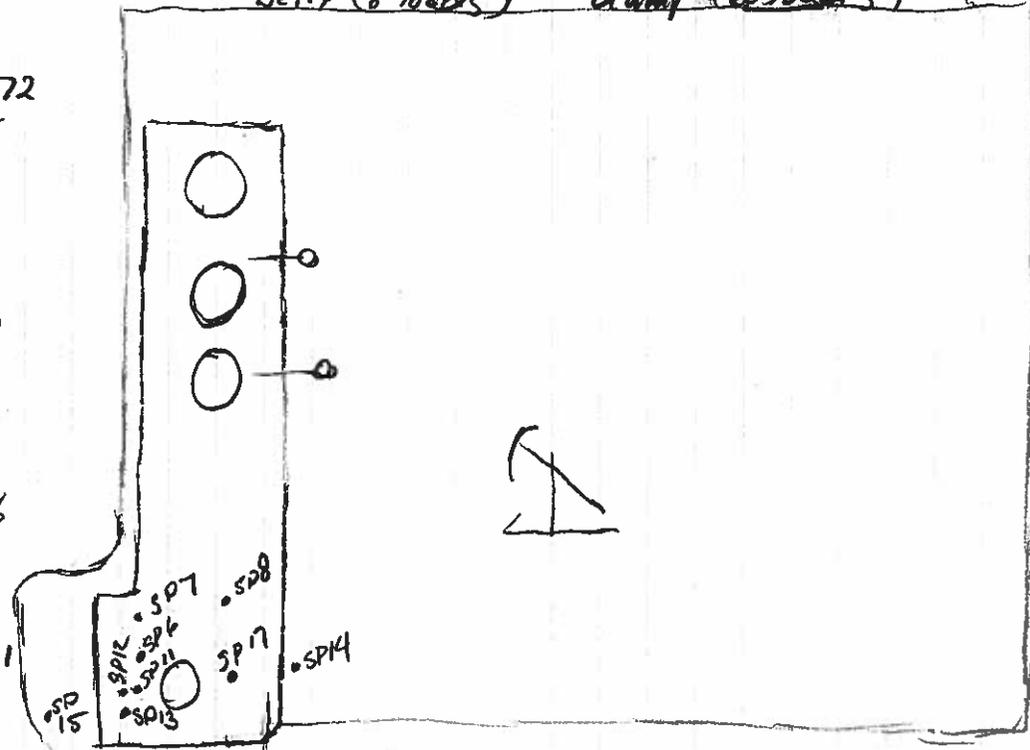


SP1 @ 3' East wall
32.8180345 - 104.1698262
SP2 @ 3" North wall

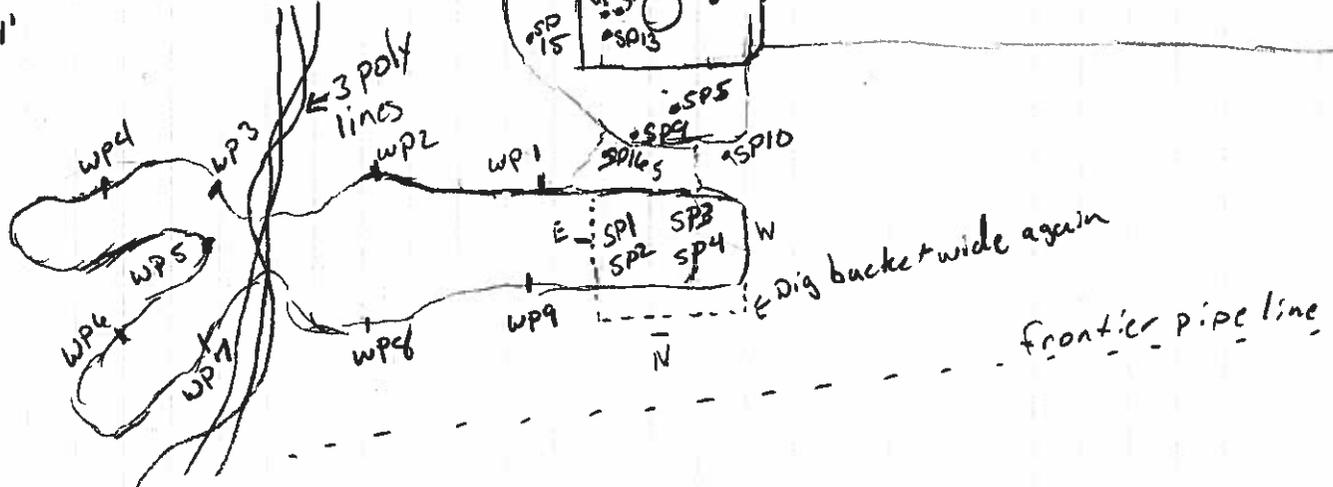
haul out 13 load cont Dirt
belly (8 loads) dump (5) loads

12-6-18 - 3 loads
12-7-18 - 10 loads
12-10-18 - 6 loads

- Wall p1 @ 1' 32.8179823 - 104.1698172
- WP2 @ 1' 32.9180271 - 104.1696325
- WP3 @ 1' 32.8190539 - 104.1695037
- WP4 @ 1' 32.8180635 - 104.1693176
- WP5 @ 1' 32.8181429 - 104.1692663
- WP6 @ 1' 32.8180558 - 104.1693760
- WP7 @ 1' 32.8181156 - 104.1693723
- WP8 @ 1' 32.8180959 - 104.1695617
- WP9 @ 1' 32.8180779 - 104.1697193
- SP1 @ 3' 32.8180178 - 104.1698568
- SP2 @ 3' 32.8180643 - 104.1698417
- SP3 @ 3' 32.8180480 - 104.1697937
- SP4 @ 3' 32.8180317 - 104.1698581
- SP5 @ 14'



Done



- SP6 @ 6" 32.8178570 - 104.1698236
- SP7 @ 6" 32.8178350 - 104.1698189
- SP8 @ 6" 32.8178251 - 104.1698692
- SP9 @ 6" 32.8179127 - 104.1699145
- SP10 @ 1' 32.8179468 - 104.1699114
- SP11 @ 6" 32.8178570 - 104.1699236

- SP12 @ 6" 32.8178570 - 104.1698236
- SP13 @ 6"
- SP14 @ 6" 32.8178423 - 104.1699074
- SP15 @ 6" 32.8179691 - 104.1697565
- SP16 @ 6" 32.8179201 - 104.1697971
- SP17 @ 6" 32.8178570 - 104.1699236

Apache Bruce Baker.

Loc: Oxy metho-meal

10/10/18

Soil/water

Results

Calitchi: SP 5 @ 12' GPS ~~32.8178570-104.1648236~~

11.0/30.9 0.60 2.80. 1,679

Calitchi: SP 6 @ 6" GPS 32.8178570-104.1648236

11.2/30.9 ~~0.25~~ 0.35 2.75 962

Calitchi: SP 7 @ 6" 32.8178350-104.1648189

11.0/30.1 0.09 2.73 (245)

Calitchi: SP 8 @ 6" 32.8178251-104.1648692

11.2/30.6 0.14 2.79 (382)

Calitchi: SP 9 @ 6" 32.8179127-104.1648145

11.0/30.4 1.64 2.74 4,524

SP 5 @ 14'

Calitchi: 11.8/30.8 0.47 2.61 1,226

Calitchi: SP 10 @ 1" 32.8179468-104.1649114

11.2/30.6 0.18 2.73 (491)

Calitchi: SP 11 @ 6" 32.8178570-104.1648236

11.5/30.4 0.24 2.64 633

Calitchi: SP 12 @ 6" 32.8178570-104.1648236

11.4/30.4 1.77 2.66 4,706

Calitchi: SP 13 @ 6"

11.4/30.6 0.10 2.68 (267)

Calitchi: SP 14 @ 6" 32.8178423-104.1649074

11.6/30.2 Dirty 2.60 X

Calitchi: SP 15 @ 6" 32.8178691-104.1647565

11.5/30.8 2.72

Calitchi: SP 16 @ 6" 32.8179201-104.1647971

11.6/30.7 2.64.

Loc oxy melt o meal st 1

10/10/18

SP 17 @ 6" 32.8178567 - ~~104~~ 1698742

11.5 / 36.1 0.15 2.6'

391

Brown
Sand

Oxy melt o meal st 1 APA-120 10-19-18

Brown End EPI @ 8'
11.4/30.1 0.12 2.64 (448)

Brown End NPI @ 8'
11.3/30.5 ~~0.22~~ ~~2.64~~ 608 ~~608~~
0.22 2.64 608

Oxy Melt - o - Meal st #1 APA-120 12-5-18

Brown sand N. wall @ 3' ^{0.34}
11.4 / 30.2 ~~0.34~~ 2.64 897
End 11.2/30.1 0.2 2.64 (535)

Bruce Baker

Sampler Joe Quesada

Oxy melt 0 meal ARA-100 12/10/2018

Soil
type

Soil / water mix after s/w total

Brown
Snd

SP1 11.2 / 30.6 0.10 2.73 272

-600

Culchi

SP2 11.2 / 30.8 0.90 2.75 ~~2,974~~

Oxy-Malt-O-Meal 10/23/20

SP1 @ 3' -32.818018, -104.169854

$$10.2/30.1 = 2.95 = .25 = 737$$

SP1 @ 4'

$$10.1/30.3 = 3 = .25 = 749$$

SP4 @ 3' -32.818062, -104.169876

$$10.4/30.3 = 2.91 = .22 = 640$$

SP4 @ 4'

$$10.3/30.1 = 2.92 = .15 = 437$$

W11 @ 2' -32.818043, -104.169893

$$10.1/30.2 = 2.91 = .05 = 145$$

W12 @ 2' -32.818086, -104.169856

$$10.2/30.1 = 3 = .07 = 209$$

SP1 @ 1'

$$10.2/30.3 = 2.96 = .05 = 147$$

SP1 @ 2'

$$10.5/30.1 = 2.86 = .05 = 171$$

SP4 @ 1'

$$10.6/30.1 = 2.83 = .06 = 169$$

SP4 @ 2'

$$10.6/30.1 = 2.83 = .08 = 226$$

W13 -32.818019, -104.169864

$$10.8/30.1 = 2.78 = .05 = 138$$

W14 -32.818007, -104.169850

$$10.6/30.3 = 2.85 = .10 = 284$$

W15 -32.818021, -104.169831

$$10.3/30.3 = 2.94 = .06 = 176$$

OXY-MALT-O-MEAL 11/23/20

W16 - 32.818033, -104.169847

$$10.8 / 30.0 = 2.77 = .06 = 166$$

W17 - 32.818063, -104.169886

$$10.3 / 30.1 = 2.92 = .08 = 233$$

W18 - 32.818050, -104.169870

$$10.4 / 30.0 = 2.88 = .08 = 230$$

W19 - 32.818064, -104.169854

$$10.0 / 30.2 = 3.02 = .05 = 150$$

W20 - 32.818073, -104.169877

$$10.2 / 30.0 = 3.02 = .12 = 362$$

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

QUESTIONS

Action 384754

QUESTIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 384754
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1733957568
Incident Name	NAB1733957568 OXY MALT-O-MEAL STATE # 1 BATTERY @ 30-015-30577
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-30577] OXY MALT-O-MEAL STATE #001

Location of Release Source

Please answer all the questions in this group.

Site Name	OXY MALT-O-MEAL STATE # 1 BATTERY
Date Release Discovered	11/22/2017
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure Treating Tower Crude Oil Released: 4 BBL Recovered: 3 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Treating Tower Produced Water Released: 4 BBL Recovered: 1 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 2

Action 384754

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 384754
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmental Tech Email: larry.baker@apachecorp.com Date: 09/18/2024
--	--

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State of New Mexico
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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 3

Action 384754

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 384754
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1/2 and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1/2 and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	1020
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	10390
GRO+DRO (EPA SW-846 Method 8015M)	8750
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	09/15/2018
On what date will (or did) the final sampling or liner inspection occur	10/07/2018
On what date will (or was) the remediation complete(d)	12/07/2018
What is the estimated surface area (in square feet) that will be reclaimed	7000
What is the estimated volume (in cubic yards) that will be reclaimed	800
What is the estimated surface area (in square feet) that will be remediated	7250
What is the estimated volume (in cubic yards) that will be remediated	900

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 384754

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 384754
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmental Tech Email: larry.baker@apachecorp.com Date: 09/18/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 384754

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 384754
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 384754

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 384754
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	384750
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/07/2018
What was the (estimated) number of samples that were to be gathered	56
What was the sampling surface area in square feet	7250

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	7250
What was the total volume (cubic yards) remediated	900
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	7000
What was the total volume (in cubic yards) reclaimed	800
Summarize any additional remediation activities not included by answers (above)	The release was excavated in accordance with the OCD approved remediation plan.

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmental Tech Email: larry.baker@apachecorp.com Date: 09/18/2024
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QUESTIONS, Page 7

Action 384754

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 384754
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS
 Action 384754

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 384754
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	10/3/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	10/3/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	10/3/2024