

July 30, 2021

Mr. Bradford Billings State of New Mexico Oil Conservation Division 1220 South St Francis Drive Santa Fe, NM 87505

RE: 2RP-4115 NB Tween Battery

Mr. Billings,

In compliance with 19.15.29.15(B) NMAC and the agreement submitted by Apache Corporation on November 8, 2018, Apache Corporation is submitting information related to closure for the release occurring February 8, 2017. Apache is respectfully submitting the deferment request based on remediation and studies occurring in 2021.

If there are any questions, please feel free to contact me by telephone at 432-631-6982 or by e-mail at larry.baker@apachecorp.com

Sincerely,

Larry Baker

Environmental Technician SR.

Apache Corporation

Larry Baker

Attachment: Closure Report Dated July 30, 2021.



# **Deferment Request**

July 30, 2021

Re: NBTWEEN Battery Case # 2RP-4115

On 2/8/2017 a release occurred due to the manway gasket on the oil storage tank failed. The release (GPS: 32.8076553, -104.1247177) is east of Artesia, New Mexico in unit letter H section 25 township 17S range 28E. A remediation plan was submitted and approved by OCD with stipulations on 8/18/2017. One of the stipulations OCD determined water to be 51-100 feet.

In November 2018 the release area was excavated in accordance with the remediation plan. All excavated soil was hauled to an OCD approved facility. The area around SP 6 was excavated to a depth of 3 feet. Laboratory analysis were above table one standards for TPH on the bottom and the north wall. All excavated soil was hauled to an OCD approved disposal facility. The pad area excavation at SP1, 2, 3, and 4 were backfilled with clean imported caliche to ground surface and the pad restored.

In June 2021 upon review of the data it was determined that bottom confirmation samples were not obtain for SP 1-4 which was a OCD stipulation. Utilizing a hand auger those excavated area were sampled at the appropriate depth stipulated in the remediation plan. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. The 3 feet excavation at SP 6 was excavated to a depth of 4 foot. All excavated material was hauled to an OCD approved disposal facility. On 6/21/2021 5 point bottom composite samples were collected not exceeding 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On the north wall (SP 6 W1) a 5 point wall composite sample was collected not exceeding 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. 5 point bottom and wall samples were collected not to exceed 200 square feet from the 1 foot excavation around SP 5 and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

On 6/22/2021 a liner inspection was conducted and the integrity was compromised in the area of SP 7 noted in the remediation plan. A surface sample (L1) in the area of compromised was collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On 7/13/20201 a one foot sample (SP7) was collected and submitted to a commercial laboratory for analysis of TPH, and BTEX. The liner was repaired.

On 6/29/2021 two verticals (SP 7 and SP 8) in the four foot excavation at SP 6 to a depth of 8 feet. All samples collected were submitted to a commercial laboratory for analysis of TPH and BTEX. The 4 foot excavation and 1 foot excavation were backfilled with clean imported to ground surface and the pad restored.

Apache Corporation respectfully request that the battery area at SP 5 and SP 7 be deferred until system abandonment.

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

Submitted by;

Bruce Baker

Environmental Technician SR. larry.baker@apachecorp.com Cell# 432-631-6982 Type of Release: Oil

Source of Release: Oil Tank

Was Immediate Notice Given?

By Whom? Bruce Baker

Was a Watercourse Reached?

1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico **Energy Minerals and Natural Resources**

Revised August 8, 2011

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

Volume Recovered 35 barrels of oil

Date and Hour of Discovery

2/8/2017

Release Notification and Corrective Action											
	<b>OPERATOR</b>	$\boxtimes$	Initial Report		Final Repor						
poration	Contact Bruce Baker		•								
Hobbs, NM 88240	Telephone No. (432) 631-6982		•								
,	Facility Type: Battery										

Volume of Release 40 barrels of

Mike Bratcher and Crystal Weaver via email

If YES, Volume Impacting the Watercourse.

Date and Hour of Occurrence

Name of Company: Apache Cor Address: 2350 W Marland Blvd Facility Name NB Tween Battery Surface Owner State Mineral Owner API No. 30-015-35915 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County Н 25 **17S** 28E 2310' **FNL** 990 FEL Eddy Latitude N32.8076553Longitude W104.1247177

NATURE OF RELEASE

☐ Yes 
☐ No

2/8/2017

If YES, To Whom?

Date and Hour 2/9/2017

if a watercourse was impacted, Describe Fully.*			
Describe Cause of Problem and Remedial Action Taken.*			
The manway gasket on the oil storage tank failed resulting in the loss	of oil.		
Describe Area Affected and Cleanup Action Taken.*			
The entire release was contained to the berm facility and lease pad. A	vacuum truck was dispatched to p	oick-up standing flu	id.
I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report b should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 reportederal, state, or local laws and/or regulations.	se notifications and perform correctly the NMOCD marked as "Final R diate contamination that pose a thront does not relieve the operator of	ctive actions for rele eport" does not reli eat to ground water responsibility for co	eases which may endanger eve the operator of liability , surface water, human health ompliance with any other
Signature: Baker	OIL CON	<u>SERVATION</u>	<u>DIVISION</u>
Signature: /zwee/saher	_		
Printed Name: Bruce Baker	Approved by Environmental S	pecialist:	_
Title: Environmental Technician	Approval Date:	Expiration I	Date:
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval:		Attached
Date: 2/13/2017 Phone: (432) 631-6982			Attacheu
Attach Additional Sheets If Necessary			

New Mexico Page 5 of 91

Incident ID	
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	a included in the plan
☐ Detailed description of proposed remediation technique ☐ Scaled sitemap with GPS coordinates showing delineation poin	•
Estimated volume of material to be remediated	
Closure criteria is to Table 1 specifications subject to 19.15.29.	
Proposed schedule for remediation (note if remediation plan tin	neline is more than 90 days OCD approval is required)
<u>Deferral Requests Only</u> : Each of the following items must be con	nfirmed as part of any request for deferral of remediation.
$\square$ Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.
rules and regulations all operators are required to report and/or file which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigat surface water, human health or the environment. In addition, OCD responsibility for compliance with any other federal, state, or local	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Larry Baker	Title: Environmental Tech SR.
Signature: Larry Baker  email: larry.baker@apachecorp.com	Date: 7/30/2021
email: larry.baker@apachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by:OCD	Date:7/30/2021
☐ Approved with Attached Conditions of	Approval Denied
Signature: Ashley Maxwell	<u>Date:</u> 3/17/2023

Bruce,

Your proposal for remediation of the above referenced release is approved with the following:

- OSE data shows a water well drilled 9/30/15 in 14-17s-28e, with a depth to groundwater at 58'. Based on this data, depth to groundwater at the NB Tween site could be less than 100'. This changes the site ranking to 10, adjusting the TPH RRAL to 1000 mg/kg. It doesn't look like this site ranking will have a large impact on the proposal, but will make some difference. OCD will consider other data you may have available to reflect ground water at greater than 100', or you may elect to install a soil boring to disprove the data.
- S-1 will require a confirmation sample (the 1' interval shows TPH at less than 1000 mg/kg)
- S-2 will require a confirmation sample ( the 1' interval shows TPH at less than 1000 mg/kg)
- S-3 will require a slightly deeper excavation than proposed with a confirmation sample (the 1' interval shows TPH at less than 1000 mg/kg)
- S-4 is slightly over RRAL and will require a surface scrape. No confirmation sample required.
- S-5 will have to be deferred if excavation/delineation is not achievable.
- S-6 will require excavation through the 2' interval (to 3') with a confirmation sample (the 3' interval shows TPH to be less than 1000 mg/kg)
- S-7 will require removal of impacted material on top of the liner, and an inspection made on the liner to verify integrity, and dimension (liner is present and intact under entire spill path)

If this is a lined battery, impacted material in the battery is to be removed and the liner inspected for integrity. If not, OCD may request some samples be obtained in the battery area. Please advise as to the status of the battery in regard to being lined/unlined.

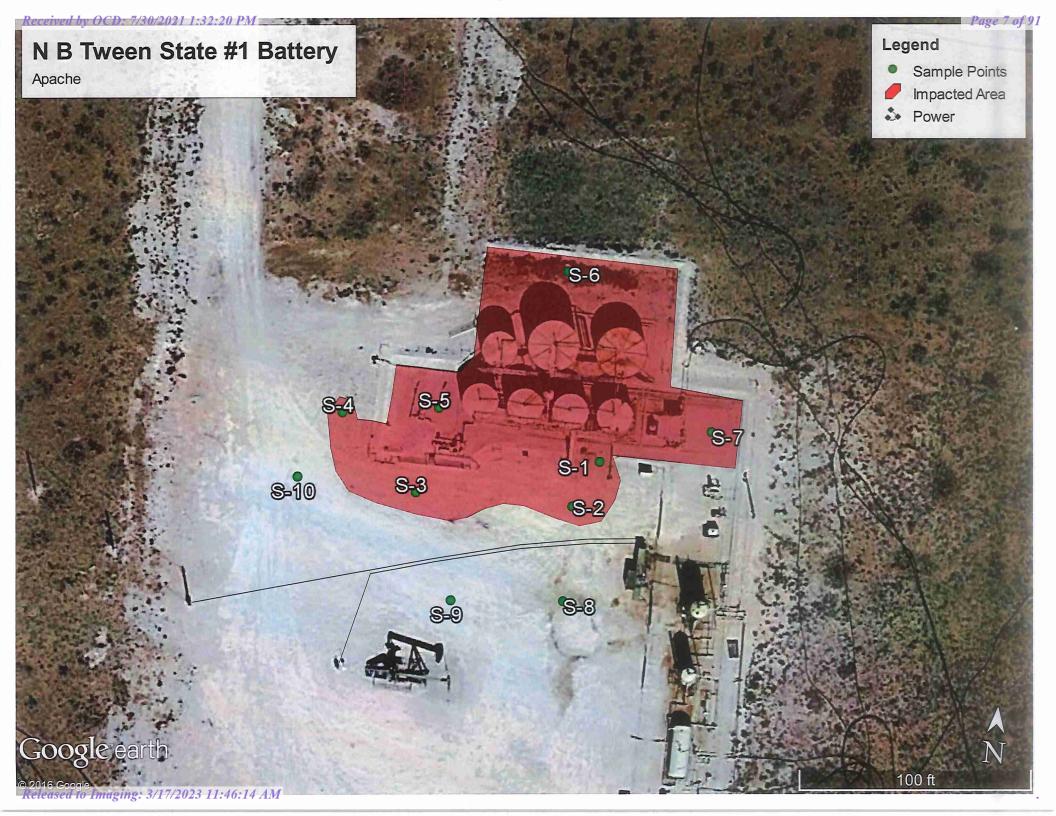
Please advise once remedial activities have been scheduled.

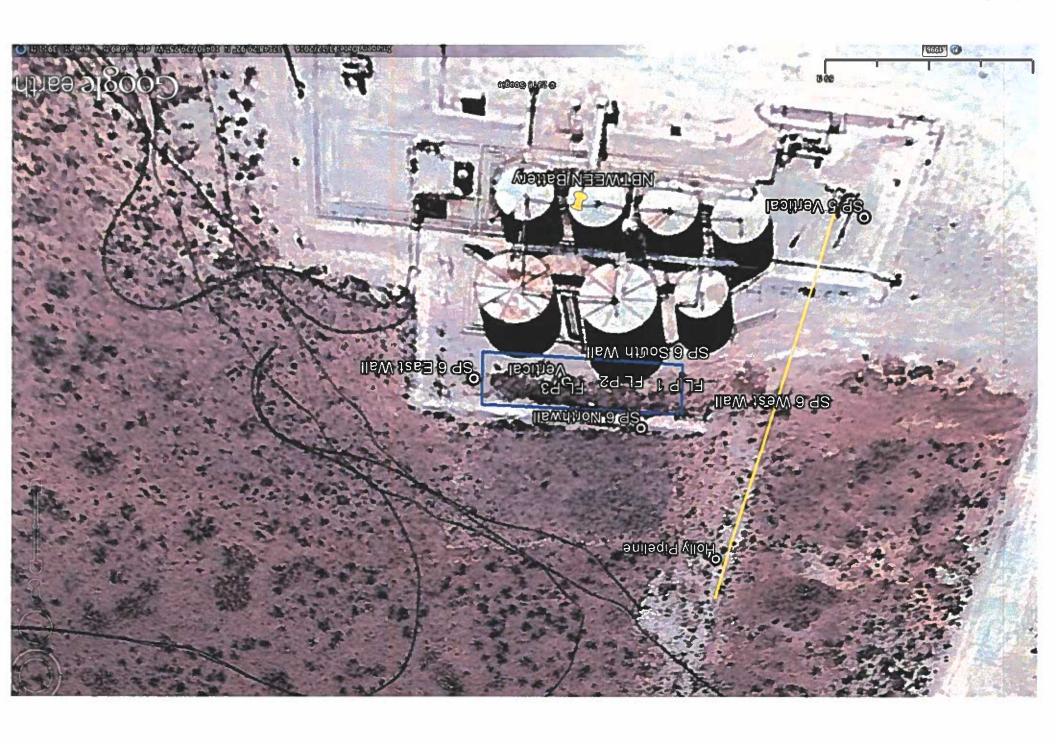
If you have any questions or concerns, please contact me.

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575~748~1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Released to Imaging: 3/17/2023 11:46:14 AM





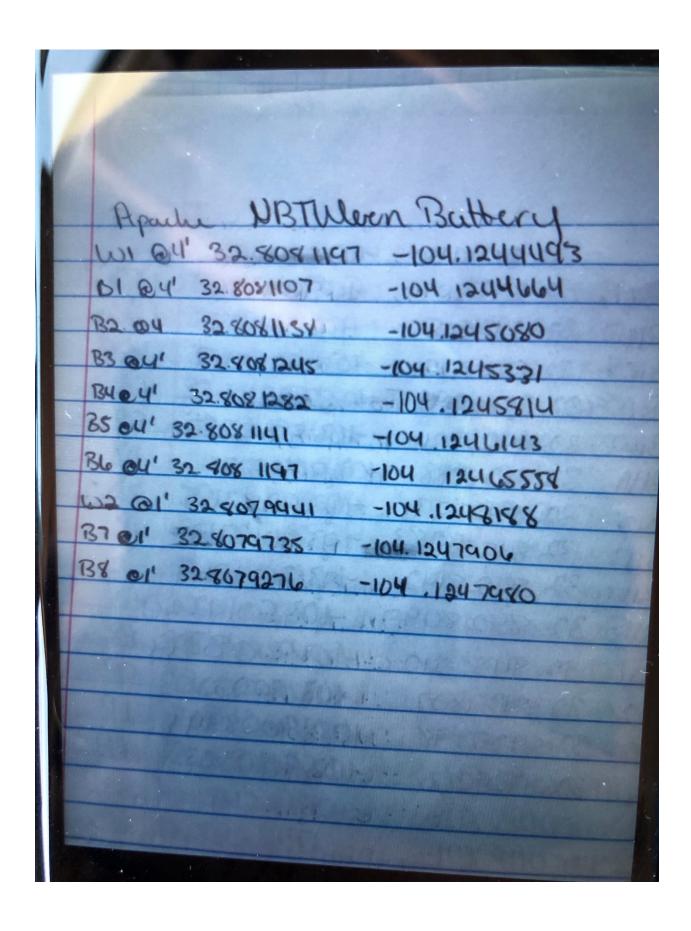
# **NBTWEEN Battery**

				SP 5	,				
Depth	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Sample Date
Surface	<0.025	<0.025	<0.025	< 0.075	<0.150	<50.0	5060	1350	11/13/2018
1'	0.095	0.452	0.118	0.874	1.54	131	519	76.8	11/13/2018
2'	<0.025	0.301	0.153	1	1.48	272	905	115	11/13/2018
3'	0.55	12.5	6.19	46.5	65.7	368	1220	131	11/13/2018
4'	0.169	2.22	0.709	5.72	8.83	92.7	348	34	11/13/2018
5'	0.214	2.59	0.935	6.88	10.6	27.3	46.6	<10.0	11/13/2018
6'	0.047	0.602	0.221	1.7	2.57	12.4	14	<10.0	11/13/2018
7'	<0.025	0.041	0.029	0.237	0.311	<10.0	<10.0	<10.0	11/13/2018
8'	<0.025	0.093	0.066	0.501	0.667	<10.0	27.6	<10.0	11/13/2018
				SP 6 wall s	amples				
Composite	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Sample Date
North Wall	<0.100	5.89	8.58	16.5	31	339	1450	216	11/14/2018
North Wall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	11/29/2018
South Wall	<0.100	1.54	5.66	16.7	23.9	163	968	183	11/14/2018
West Wall	<0.050	<0.050	0.075	0.174	<0.300	<10.0	649	171	11/14/2018
East Wall	<0.50	<0.050	<0.050	<0.150	<0.300	<10.0	398	91.6	11/14/2018
			SP 6 I	<b>Bottom Sam</b>	ples @ 3 f	eet			
Composite	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Sample Date
FP 1	0.253	11.7	15	25	52	572	2740	363	11/14/2018
FP 2	0.392	20.3	23.9	42.6	87.1	816	3400	464	11/14/2018
FP 3	0.130	8.08	7.67	19.8	35.7	343	1690	295	11/14/2018
				SP 6 ver	tical				
Depth	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Sample Date
4'	<0.500	24.8	8.43	41.1	74.3	1050	4860	726	11/29/2018
5'	<0.050	0.066	<0.050	<0.150	<0.300	<10.0	50.2	11.9	11/29/2018
6'	0.632	26.8	22.7	38.5	88.6	726	2190	315	11/29/2018
7'	<0.050	1.39	2.21	3.77	7.36	109	876	143	11/29/2018
8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.7	<10.0	11/29/2018



2021 Delineation Samples

Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenze	Total	Total	GRO	DRO	EXT DRO
Date			Lab			ne	Xylenes	BTEX			
6/21/2021	SP 6 W1	0-4'	16	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	24.5	<10.0
6/21/2021	SP 6 B1	4'	48	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 6 B2	4'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	64.4	<10.0
6/21/2021	SP 6 B3	4'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	71.8	<10.0
6/21/2021	SP 6 B4	4'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.1	<10.0
6/21/2021	SP 6 B5	4'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 6 B6	4'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	81.9	11.5
6/21/2021	SP 5 W2	0-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	75.7	<10.0
6/21/2021	SP 5 B7	1'	16	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	10.2	<10.0
6/21/2021	SP 5 B7	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 1	1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 2	1'	16	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 3	1'	32	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021		2'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 4	6"	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021	SP 7	5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		6'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		7'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		8'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021	SP 8	5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	50.6	28.7
6/29/2021		6'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		7'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		8'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/22/2021	L1	Surface	464	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1320	504
7/13/2021	SP 7	1'		<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	361	133





November 20, 2018

BRUCE BAKER

**APACHE CORP - HOBBS** 

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NBTWEEN

Enclosed are the results of analyses for samples received by the laboratory on 11/13/18 17:05.

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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

**APACHE CORP - HOBBS BRUCE BAKER** 2350 W. MARLAND BLVD. **HOBBS NM, 88240** 

Fax To:

(575) 393-2432

Received:

11/13/2018

Reported:

11/20/2018

Project Name: Project Number: **NBTWEEN** STATE BATTERY

Project Location:

**EDDY COUNTY** 

Sampling Date:

Sampling Type: Soil

Sampling Condition:

Sample Received By:

Cool & Intact

11/13/2018

Tamara Oldaker

Sample ID: VP 5 SURFACE (H803304-01)

BTEX 8260B

mg/kg

Analyzed By: ms

	<del></del>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	<0.025	0.025	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	<0.025	0.025	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	<0.075	0.075	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	<0.150	0.150	11/16/2018	ND					

Surrogate: Dibromofluoromethane

Surrogate: 4-Bromofluorobenzene

98.6%

90.4-111 85.3-114

Surrogate: Toluene-d8

104% 95.6%

80.1-121

TPH 8015M	mg	/kg	Analyze	d By: MS			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC
GRO C6-C10*	<50.0	50.0	11/15/2018	ND	217	108	200
DRO >C10-C28*	5060	50.0	11/15/2018	ND	220	110	200

11/15/2018

ND

EXT DRO > C28-C36 Surrogate: 1-Chlorooctane

90.2 %

1350

41-142

50.0

Surrogate: 1-Chlorooctadecane

297 %

37.6-147

Cardinal Laboratories

Received by OCD: 7/30/2021 1:32:20 PM

\*=Accredited Analyte

S-06

Qualifier

RPD

9.14 7.10

muse Single



# Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received: Reported: 11/13/2018

11/20/2018

NBTWEEN

Project Name: Project Number: Project Location:

STATE BATTERY EDDY COUNTY

Sampling Date:

11/13/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: VP 5 1' (H803304-02)

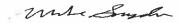
BTEX 8260B	260B mg/kg		Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	0.095	0.025	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	0.452	0.025	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	0.118	0.025	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	0.874	0.075	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	1.54	0.150	11/16/2018	ND					
Surrogate: Dibromofluoromethane	99.3 %	90.4-11							
Surrogate: Toluene-d8	237 %	85.3-114	1						
Surrogate: 4-Bromosluorobenzene	808 %	80.1-12.	1						
TPH 8015M	mg/k	9	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	131	10.0	11/15/2018	ND	217	108	200	9.14	
DRO >C10-C28*	519	10.0	11/15/2018	ND	220	110	200	7.10	
EXT DRO >C28-C36	76.8	10.0	11/15/2018	ND					
Surrogate: 1-Chlorooctane	111 %	41-142							
Surrogate: 1-Chlorooctadecane	115 %	37.6-147	7						

#### Cardinal Laboratories

Received by OCD: 7/30/2021 1:32:20 PM

\*=Accredited Analyte

PLEASE NOTE: Used the amount paid by claim for analyses. All claims, including those for negligence and any other cause whatsoever shall be desented waved unless made in writing and received by Cardinal within thirty (30) days after completion of this 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 priefly incurred by clearly, 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.





# Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

11/13/2018

Reported:

11/20/2018 NBTWEEN

Project Name: Project Number: Project Location:

STATE BATTERY

**EDDY COUNTY** 

Sampling Date:

11/13/2018

Soil

Sampling Type:

Sample Received By:

Sampling Condition:

Cool & Intact

Tamara Oldaker

Sample ID: VP 5 2' (H803304-03)

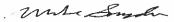
BTEX 8260B	mg/l	(g	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.025	0.025	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	0.301	0.025	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	0.153	0.025	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	1.00	0.075	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	1.48	0.150	11/16/2018	ND					
Surrogate: Dibromofluoromethane	101 %	90.4-11	I						
Surrogate: Toluene-d8	259 %	85.3-11-	<b>J</b>						
Surrogate: 4-Bromofluorobenzene	792 %	80.1-12	I						
TPH 8015M	mg/k	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	272	10.0	11/15/2018	ND	217	108	200	9.14	
DRO >C10-C28*	905	10.0	11/15/2018	ND	220	110	200	7.10	
EXT DRO >C28-C36	115	10.0	11/15/2018	ND					
Surrogate: 1-Chlorooctane	118 %	41-142							
Surrogate: 1-Chlorooctadecane	126 %	37.6-14	7						

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any other cause whatsovers stable be deemed where durings and course excusive remedy for any claim argaing, whether based in contract or tort, shall be applicable service. In no event shall be deemed where durings where durings and never who when the stable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use, or 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.





# Analytical Results For:

APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

11/13/2018

Reported:

11/20/2018

Project Name: Project Number: **NBTWEEN** STATE BATTERY

Project Location:

**EDDY COUNTY** 

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 11/13/2018 Soil Cool & Intact

Tamara Oldaker

# Sample ID: VP 5 3' (H803304-04)

BTEX 8260B	mg/	kg	Analyzed By: ms			<u> </u>			S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.550	0.250	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	12.5	0.250	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	6.19	0.250	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	46.5	0.750	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	65.7	1.50	11/16/2018	ND					
Surrogate: Dibromofluoromethane	97.3 9	% 90.4-11	I						
Surrogate: Toluene-d8	123 9	6 85.3-11	4						
Surrogate: 4-Bromosluorobenzene	169 9	6 80.1-12	1						
TPH 8015M	mg/	kg	Analyze	d By: MS		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	368	10.0	11/15/2018	ND	217	108	200	9.14	
DRO >C10-C28*	1220	10.0	11/15/2018	ND	220	110	200	7.10	
EXT DRO >C28-C36	131	10.0	11/15/2018	ND					
Surrogate: 1-Chlorooctane	128 %	6 41-142							144
Surrogate: 1-Chlorooctadecane	138 %	37.6-14	7						

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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:

11/13/2018

Reported:

11/20/2018

Project Name: Project Number: NBTWEEN
STATE BATTERY

Project Location:

**EDDY COUNTY** 

Sampling Date:

y vale.

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

COOL & THEACT

Tamara Oldaker

11/13/2018

Sample ID: VP 5 4' (H803304-05)

BTEX 82608	mg	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.169	0.025	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	2.22	0.025	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	0.709	0.025	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	5.72	0.075	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	8.83	0.150	11/16/2018	ND					
Surrogate: Dibromofluoromethane	98.1	% 90.4-11	ı						
Surrogate: Toluene-d8	148	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	320	% 80.1-12	I						
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	92.7	10.0	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	348	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	34.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	Ш	% 41-142	?				110		
Surrogate: 1-Chlorooctadecane	110	% 37.6-14	7						

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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: Reported: 11/13/2018

11/20/2018

Project Name: Project Number:

**NBTWEEN** STATE BATTERY

Project Location:

**EDDY COUNTY** 

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: Soil Cool & Intact

11/13/2018

Tamara Oldaker

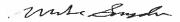
Sample ID: VP 5 5' (H803304-06)

BTEX 8260B	mg/k	<u>g</u>	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	0.214	0.050	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	2.59	0.050	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	0.935	0.050	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	6.88	0.150	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	10.6	0.300	11/16/2018	ND					
Surrogate: Dibromofluoromethane	96.7 %	90.4-11.	i						
Surrogate: Toluene-d8	129 %	85 3-11-	4						
Surrogate: 4-Bromosluorobenzene	204 %	80.1-12.	1						
TPH 8015M	mg/k	g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8\$	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	27.3	10.0	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	46.6	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	107 %	41-142							
Surrogate: 1-Chlorooctadecane	101 %	37.6-147	7						

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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:

11/13/2018

Reported:

11/20/2018

Project Name: Project Number:

Project Location:

**NBTWEEN** STATE BATTERY

**EDDY COUNTY** 

Sampling Date:

11/13/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: VP 5 6' (H803304-07)

BTEX 8260B	mg/l	(g	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	0.047	0.025	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	0.602	0.025	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	0.221	0.025	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	1.70	0.075	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	2.57	0.150	11/16/2018	ND					
Surrogate: Dibromofluoromethane	98.2 %	6 90.4-111	,						
Surrogate Toluene-d8	125 %	85.3-114	1						
Surrogate: 4-Bromofluorobenzene	184 %	80.1-12.	1						
TPH 8015M	mg/l	9	Analyze	d By: MS		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	12.4	10.0	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	14.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	99.2 %	3 41-142	- 15						
Surrogate: 1-Chlorooctadecane	98.9 %	37.6-147	,						

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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: Reported: 11/13/2018

11/20/2018

**NBTWEEN** 

Project Name: Project Number: Project Location:

STATE BATTERY **EDDY COUNTY** 

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

11/13/2018

Tamara Oldaker

Sample ID: VP 5 7' (H803304-08)

BTEX 8260B	mg/	kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	0.041	0.025	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	0.029	0.025	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	0.237	0.075	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	0.311	0.150	11/16/2018	ND					
Surrogate: Dibromofluoromethane	95.4 9	6 90.4-11	1						
Surrogate: Toluene-d8	106 %	6 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	122 %	6 80.1-12	ı						
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	106 %	6 41-142							
Surrogate: 1-Chlorooctadecane	104 %	37.6-14	7						

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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:

11/13/2018

Reported:

11/20/2018

Project Name: Project Number: NBTWEEN
STATE BATTERY

Project Location:

**EDDY COUNTY** 

Sampling Date:

11/13/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

#### Sample ID: VP 5 8' (H803304-09)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	0.093	0.025	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	0.066	0.025	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	0.501	0.075	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	0.667	0.150	11/16/2018	ND					
Surrogate: Dibromofluoromethane	98.3	% 90.4-11	I						
Surrogate: Toluene-d8	109	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	129	% 80.1-12	rI						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	27.6	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					
Surrogate: 1-Chlorooctane	106	% 41-142	?				N.		
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

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#### **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. S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

Analyte NOT DETECTED at or above the reporting limit ND

**RPD** Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500Cl-8 does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

PLEASE NOTE: Liability and Damages. Cardinal's flability and client's exclusive remedy for any claim any other clause whatsoners in the process of the performance of the services hereunder by clean, at subsidiaries, arthurs on successions arising out of or related to the performance of the services hereunder by

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company warne:	早についている	B/LL-TO	ANALYSIS REQUEST
Project Manager:	La de Occione	P.O. #:	
Address:		Company:	
City: 1-10005 State:	NM zip: 6,8,34	Attn:	
Phone #: Fax #:		Address:	
Project #: Project Owner:		City:	
Project Name:		State: Zip:	
Project Location: NB Ture on St	teste Bother	Phone #:	
Sampler Name: )cy ()(10 1(1/1)		Fax #:	
FOR LAS USE ONLY	MATRIX	PRESERV SAMPLING	
Lab I.D. Sample I.D.		NSE: DOL	EX
HEEGH	# CON GROU WASTE SOIL OIL SLUDG	OTHER ACID/B ICEY C OTHER	BT
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₩ S	] -	11.13/8 \$ 3000	
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7 125 6	T -	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
\$ UPS 7'	<u>β</u>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
3 360	<u>8</u> -	11.0.18 4. 2.	
PLEASE NOTE: Usblifty and Damagoes. Cardinal's labelity and clearly acceptable amongs for any claim address whether beand in control of the small by Indian to the	made for each claim addition whether has a contract		

Relinquished By: analyses. All chims including these for registeroe and any other cause whotocever shall be deemed welved unless made in writing and received by Cerdinal within 30 days after completion of the applicable service. In no event shall Cerdinal be liable for incleaned or consequental damages, including without limitation, business intempolers, loss of use, or loss of profits incurred by client, its subsidiaries, Delivered By: (Circle One) Time: Date: 12/3-18 Received By Sample Condition
Cool Intact
Pes 1-Yes
No 1 No CHECKED BY: (Initials) Phone Result: Fax Result: REMARKS:

Email Rusults ☐ Yes ☐ No Add'i Phone #:

0.0.

10

Sampler - UPS - Bus - Other:



November 20, 2018

**BRUCE BAKER** 

**APACHE CORP - HOBBS** 

2350 W. MARLAND BLVD.

**HOBBS, NM 88240** 

RE: NBTWEEN

Enclosed are the results of analyses for samples received by the laboratory on 11/14/18 16:45.

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/ga/lab\_accred\_certif.html.

Cardinal Laboratories is accreditated 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.

Whe Sough

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,

Received by OCD: 7/30/2021 1:32:20 PM

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received: Reported: 11/14/2018

: 11/20/2018

Project Name: Project Number: NBTWEEN
STATE BATTERY

Project Location:

EDDY COUNTY

Sampling Date:

Sampling Type:

11/14/2018 Soil

Sampling Type: Si Sampling Condition: C

Cool & Intact

Sample Received By:

Tamara Oldaker

# Sample ID: N WALL COM (H803324-01)

BTEX 8021B	mg/l	kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/16/2018	ND	1.89	94.7	2.00	2.59	
Toluene*	5.89	0.100	11/16/2018	ND	1.87	93.4	2.00	2.42	
Ethylbenzene*	8.58	0.100	11/16/2018	ND	1.82	90.8	2.00	2.16	
Total Xylenes*	16.5	0.300	11/16/2018	ND	5.67	94.5	6.00	2.71	
Total BTEX	31.0	0.600	11/16/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	143 %	6 73.3-12	9		11.				
TPH 8015M	mg/l	kg	Analyze	d By: M\$					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	339	10.0	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	1450	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	216	10.0	11/16/2018	ND					
Surrogate: 1-Chlorooctane	141 %	6 41-142	,						77.00
Surrogate: 1-Chlorooctadecane	140 %	37.6-14	7						

#### Cardinal Laboratories

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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:

11/14/2018

Reported:

11/20/2018

Project Name: Project Number: NBTWEEN

Project Location:

STATE BATTERY EDDY COUNTY

Sampling Date:

11/14/2018

Sampling Type:

Sampling Condition:

Soil

Sample Received By:

Cool & Intact

Tamara Oldaker

# Sample ID: S WALL COM (H803324-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.100	0.100	11/16/2018	ND	1.89	94.7	2.00	2.59	
Toluene*	1.54	0.100	11/16/2018	ND	1.87	93.4	2.00	2.42	
Ethylbenzene*	5.66	0.100	11/16/2018	ND	1.82	90.8	2.00	2.16	
Total Xylenes*	16.7	0.300	11/16/2018	ND	5.67	94.5	6.00	2.71	
Total BTEX	23.9	0.600	11/16/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	131 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	163	10.0	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	968	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	183	10.0	11/16/2018	ND					
Surrogate: 1-Chlorooctane	135 9	6 41-142	?						
Surrogate: 1-Chlorooctadecane	140 9	6 37.6-14	7						

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\*=Accredited Analyte

any other cause whatsoers stall be deemed waved unless made in winning and needed 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 Imitation, 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 hareunder by Cardinal, regardless of whether such claims is based upon any of the above stated reagons 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.





# Analytical Results For:

**APACHE CORP - HOBBS BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

11/14/2018

Reported:

11/20/2018

Project Name: Project Number: **NBTWEEN** STATE BATTERY

Project Location:

**EDDY COUNTY** 

Sampling Date:

11/14/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact Tamara Oldaker

Sample Received By:

Sample ID: W WALL COM (H803324-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	11/17/2018	ND	1.89	94.7	2.00	2.59	
Toluene*	<0.050	0.050	11/17/2018	ND	1.87	93.4	2.00	2.42	
Ethylbenzene*	0.075	0.050	11/17/2018	ND	1.82	90.8	2.00	2.16	
Total Xylenes*	0.174	0.150	11/17/2018	ND	5.67	94.5	6.00	2.71	
Total BTEX	<0.300	0.300	11/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	649	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	171	10.0	11/16/2018	ND					
Surrogate: 1-Chlorooctane	1169	6 41-142							7 11 1
Surrogate: 1-Chlorooctadecane	134 9								
Durroguie. 1-Chioroboliumetune	134 /	0 37,0-14							

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Whe South



# Analytical Results For:

**APACHE CORP - HOBBS BRUCE BAKER** 2350 W. MARLAND BLVD. **HOBBS NM, 88240** 

Fax To:

(575) 393-2432

Received:

11/14/2018

Reported:

Project Name:

Project Number: Project Location: 11/20/2018

**NBTWEEN** STATE BATTERY

**EDDY COUNTY** 

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

11/14/2018

Soil

Cool & Intact Tamara Oldaker

Sample ID: E WALL COM (H803324-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2018	ND	1.89	94.7	2.00	2.59	
Toluene*	<0.050	0.050	11/17/2018	ND	1.87	93.4	2.00	2.42	
Ethylbenzene*	<0.050	0.050	11/17/2018	ND	1.82	90.8	2.00	2.16	
Total Xylenes*	<0.150	0.150	11/17/2018	ND	5.67	94.5	6.00	2.71	
Total BTEX	<0.300	0.300	11/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	106 9	% 73.3-12	9				11.5		
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	398	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	91.6	10.0	11/16/2018	ND					
Surrogate: 1-Chlorooctane	115 9	% 41-142					51-		
Surrogate: 1-Chlorooctadecane	125 9	% 37.6-14	7						

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\*=Accredited Analyte

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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:

11/14/2018

Reported:

11/20/2018 **NBTWEEN** 

Project Name: Project Number:

STATE BATTERY

Project Location:

**EDDY COUNTY** 

Sampling Date:

11/14/2018

Sampling Type:

Sampling Condition:

Soil

Sample Received By:

Cool & Intact

Tamara Oidaker

# Sample ID: SP 6 FP 1 @ 3' (H803324-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.253	0.200	11/17/2018	ND	1.89	94.7	2.00	2.59	
Toluene*	11.7	0.200	11/17/2018	ND	1.87	93.4	2.00	2.42	
Ethylbenzene*	15.0	0.200	11/17/2018	ND	1.82	90.8	2.00	2.16	
Total Xylenes*	25.0	0.600	11/17/2018	ND	5.67	94.5	6.00	2.71	
Total BTEX	52.0	1.20	11/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	130 9	% 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	572	10.0	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	2740	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	363	10.0	11/16/2018	ND					
Surrogate: 1-Chlorooctane	161 %	% 41-142	,						
Surrogate: 1-Chlorooctadecane	1349	% 37.6-14	7						

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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: Reported: 11/14/2018

11/20/2018

Project Name: Project Number: Project Location: NBTWEEN
STATE BATTERY
EDDY COUNTY

Sampling Date:

11/14/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 6 FP 2 @ 3' (H803324-06)

BTEX 8021B	mg/l	kg	Analyze	d By: ms					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	0.392	0.200	11/17/2018	ND	1.89	94.7	2.00	2.59	
Toluene*	20.3	0.200	11/17/2018	ND	1.87	93.4	2.00	2.42	
Ethylbenzene*	23.9	0.200	11/17/2018	ND	1.82	90.8	2.00	2.16	
Total Xylenes*	42.6	0.600	11/17/2018	ND	5.67	94.5	6.00	2.71	
Total BTEX	87.1	1.20	11/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	139 %	6 73.3-12	9		1000				
TPH 8015M	mg/l	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	816	10.0	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	3400	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	464	10.0	11/16/2018	ND					
Surrogate: 1-Chlorooctane	230 %	6 41-142							
Surrogate: 1-Chlorooctadecane	222 %	6 37.6-14	7						

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# Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

To:

(575) 393-2432

Received:

11/14/2018

Reported:

11/20/2018 NBTWEEN

Project Name: Project Number:

STATE BATTERY

Project Location:

EDDY COUNTY

Sampling Date:

11/14/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

# Sample ID: SP 6 FP 3 @ 3' (H803324-07)

BTEX 8021B	mg/l	kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.130	0.100	11/17/2018	ND	1.89	94.7	2.00	2.59	
Toluene*	8.08	0.100	11/17/2018	ND	1.87	93.4	2.00	2.42	
Ethylbenzene*	7.67	0.100	11/17/2018	ND	1.82	90.8	2.00	2.16	
Total Xylenes*	19.8	0.300	11/17/2018	ND	5.67	94.5	6.00	2.71	
Total BTEX	35.7	0.600	11/17/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	143 %	6 73.3-12	9						
TPH 8015M	mg/l	kg	Analyze	d By: MS	<u>.</u> .				S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	343	10.0	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	1690	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	295	10.0	11/16/2018	ND					
Surrogate: 1-Chlorooctane	158 %	6 41-142							
Surrogate: 1-Chlorooctadecane	216 %	37.6-14	7						

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#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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Released to Imaging: 3/17/2023 11:46:14 AM

Page 10 of 10

CARDINAL

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Company Name: ACOCK INC.					STATE OF	15.60	BILL TO	A State William	die.			ANA	ANALYSIS	S RE	REQUEST				Г
Project Manager:	or: Bruce Achen					P.O. #:	ارد			_		$\vdash$	$\vdash$				-	L	-	Т
Address:						Company:	any:						26			•				
City: Wolth	State1	Zip: 906	noc	9		Attn:				1										
Phone #:	Fax#:	)				Address:	SS:													
Project #:	Project Owner:	,.				City:				ı										10
Project Name:						State:		Zip:												
Project Location: NB T	mery Stube	Batter	ינע	ΔT	_	Phone #:	#													
Sampler Name:	Sampler Name: Jou Char Actual			~	_	Fax #:														
FOR LAB USE ONLY				MATRIX	ZX.	M.	PRESERV.	SAMPLING	LING	۱) —	7									
		(GMO(2 SP								107	19T		<del></del>							
Lab I.D.	Sample I.D.	) ЯО 8 ІЗИІАТ	AWQW 3TAW3							1_	<u> </u>							<del></del> ,		· · · · · ·
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	N wall Com	ー		_			-	11-14	4:278	Ľ,	/								-	Т
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3	E wall co	۔ افع		/			-	11.14	A HYBA	1	/		_				-		_	Τ
V	SP6 FP1 @3'	ت ل		_				11-14	9:53B	/	,						<u> </u>		-	Γ
9	SP6 50 03	<u>-</u>		1			1	h). 11		1	1								_	
7	SP6 FP3 @ 3'	ے ت		1	-			11.14	i I	7	,			_						Γ
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PLEASE NOTE: Liability an	PLEASE NOTE: Labiday and Damages. Cardmai's labiday and clerif's exclusive ramedy for any claim arising whether based in continuit or lart, shall be firsted to the amount paid by the deep for	ny claim anten	o whether	r baced u	confract o	r lort, shall	De firmited	to the amount p	aid by the cleant fo	ar Da									ļ	1

analyses. All chains including those for negligence and any other cause whatboever shall be deemed unless made in witing and reserved by Cardinal within 30 days after completion of the applicable arents shall Cardinal be fable for incidental or consequental damages, including without firitalson, business interruptions, lass of use, or loss of polis incurred by claim, its subsidiation, affects of experience by claim, its subsidiations affects of experience of services hereunder by Cardinal, regardless of whether such claim is bessed upon any of the above stated reasons or otherwise.

Add'l Phone # Email 0 0 Yes Phone Result
Fax Result:
REMARKS: CHECKED BY: (Initials) Sample Condition
Cool Intact
Tres Tres
No No Time: 4 3.70 Time: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

Released to Imaging: 3/17/2023 11:46:14 AM





December 04, 2018

**BRUCE BAKER** 

**APACHE CORP - HOBBS** 

2350 W. MARLAND BLVD.

**HOBBS, NM 88240** 

**RE: NBTWEEN** 

Enclosed are the results of analyses for samples received by the laboratory on 11/29/18 16:35.

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/ga/lab\_accred\_certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Received by OCD: 7/30/2021 1:32:20 PM

Lab Director/Quality Manager



#### Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received: Reported: 11/29/2018

12/04/2018

Project Name:

NBTWEEN
STATE BATTERY

Project Number: Project Location:

**EDDY COUNTY** 

142%

226 %

41-142

37.6-147

Sampling Date:

11/29/2018

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 6 @ 4' (H803509-01)

BTEX 8021B		/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	12/03/2018	ND	2.20	110	2.00	0.326	
Toluene*	24.8	0.500	12/03/2018	ND	2.15	108	2.00	0.749	
Ethylbenzene*	8.43	0.500	12/03/2018	ND	2.05	103	2.00	0.838	
Total Xylenes*	41.1	1.50	12/03/2018	ND	6.63	110	6.00	1.01	
Total BTEX	74.3	3.00	12/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	123	% 73.3-12	9						
TPH 8015M	mg,	/kg	g Analyze						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1050	50.0	12/01/2018	ND	221	110	200	1.94	
DRO >C10-C28*	4860	50.0	12/01/2018	ND	227	114	200	2.69	
EXT DRO >C28-C36	726	50.0	12/01/2018	ND					

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Surrogate: 1-Chlorooctane

Surrogate 1-Chlorooctadecane

\*=Accredited Analyte

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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:

11/29/2018

Reported:

12/04/2018

Project Name: Project Number: **NBTWEEN** STATE BATTERY

Project Location:

**EDDY COUNTY** 

Sampling Date:

11/29/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 6 @ 5' (H803509-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2018	ND	2.20	110	2.00	0.326	
Toluene*	0.066	0.050	12/03/2018	ND	2.15	108	2.00	0.749	
Ethylbenzene*	<0.050	0.050	12/03/2018	ND	2.05	103	2.00	0.838	
Total Xylenes*	<0.150	0.150	12/03/2018	ND	6.63	110	6.00	1.01	
Total BTEX	<0.300	0.300	12/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	106 9	% 73.3-12	9						
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2018	ND	221	110	200	1.94	
DRO >C10-C28*	50.2	10.0	12/01/2018	ND	227	114	200	2.69	
EXT DRO >C28-C36	11.9	10.0	12/01/2018	ND					
Surrogate: 1-Chlorooctane	91.5	% 41-142							
Surrogate: 1-Chlorooctadecane	102 9	6 37.6-14	7						

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\*=Accredited Analyte

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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:

11/29/2018

Sampling Date:

11/29/2018

Reported:

12/04/2018 NBTWEEN

Sampling Type:

Soil

Project Name: Project Number:

STATE BATTERY

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

**EDDY COUNTY** 

Sample ID: SP 6 @ 6' (H803509-03)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.632	0.500	12/03/2018	ND	2.20	110	2.00	0.326	
Toluene*	26.8	0.500	12/03/2018	ND	2.15	108	2.00	0.749	
Ethylbenzene*	22.7	0.500	12/03/2018	ND	2.05	103	2.00	0.838	
Total Xylenes*	38.5	1.50	12/03/2018	ND	6.63	110	6.00	1.01	
Total BTEX	88.6	3.00	12/03/2018	ND					

Surrogate: 4	I-Bromofluorobenzene	(PIE
--------------	----------------------	------

115%

73.3-129

TPH 8015M	mg	/kg	Analyze	d By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	726	10.0	12/01/2018	ND	221	110	200	1.94	
DRO >C10-C28*	2190	10.0	12/01/2018	ND	227	114	200	2.69	
EXT DRO >C28-C36	315	10.0	12/01/2018	ND					

Surrogate: 1-Chlorooctane

125 %

41-142

Surrogate: 1-Chlorooctadecane

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161%

37.6-147

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Celegy Thomas



### Analytical Results For:

**APACHE CORP - HOBBS BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

11/29/2018

Reported:

12/04/2018 **NBTWEEN** 

Project Name: Project Number:

STATE BATTERY

Project Location:

**EDDY COUNTY** 

Sampling Date:

11/29/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

### Sample ID: SP 6 @ 7' (H803509-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms				<u> </u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2018	ND	2.20	110	2.00	0.326	
Toluene*	1.39	0.050	12/03/2018	ND	2.15	108	2.00	0.749	
Ethylbenzene*	2.21	0.050	12/03/2018	ND	2.05	103	2.00	0.838	
Total Xylenes*	3.77	0.150	12/03/2018	ND	6.63	110	6.00	1.01	
Total BTEX	7.36	0.300	12/03/2018	ND					
Surrogate 4-Bromofluorobenzene (PIL	125 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	109	10.0	12/01/2018	ND	221	110	200	1.94	
DRO >C10-C28*	876	10.0	12/01/2018	ND	227	114	200	2.69	
EXT DRO >C28-C36	143	10.0	12/01/2018	ND					
Surrogate: 1-Chlorooctane	97.0 9	% 41-142							
Surrogate: 1-Chlorooctadecane	124 %	6 37.6-14	7						

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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:

11/29/2018

Reported:

12/04/2018 NBTWEEN

Project Name: Project Number:

STATE BATTERY

Project Location:

EDDY COUNTY

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 11/29/2018 Soil

Cool & Intact
Tamara Oldaker

Sample ID: SP 6 @ 8' (H803509-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Веплене*	< 0.050	0.050	12/03/2018	ND	2.20	110	2.00	0.326	
Toluene*	<0.050	0.050	12/03/2018	ND	2.15	108	2.00	0.749	
Ethylbenzene*	<0.050	0.050	12/03/2018	ND	2.05	103	2.00	0.838	
Total Xylenes*	<0.150	0.150	12/03/2018	ND	6.63	110	6.00	1.01	
Total BTEX	<0.300	0.300	12/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	105 9	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2018	ND	221	110	200	1.94	
DRO >C10-C28*	43.7	10.0	12/01/2018	ND	227	114	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	12/01/2018	NĐ					
Surrogate: 1-Chlorooctane	90.2	% 41-142							
Surrogate: 1-Chlorooctadecane	101 9	6 37.6-14	7						

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APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

11/29/2018

Reported:

12/04/2018

Project Name: Project Number: NBTWEEN
STATE BATTERY

Project Location:

EDDY COUNTY

Sampling Date:

amping Date:

Sampling Type: Soil

Sampling Condition:

Cool & Intact

11/29/2018

Sample Received By:

Tamara Oldaker

Sample ID: SP 6 - N WALL (H803509-06)

BTEX 8021B	mg/l	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2018	ND	2.20	110	2.00	0.326	
Toluene*	<0.050	0.050	12/03/2018	ND	2.15	108	2.00	0.749	
Ethylbenzene*	<0.050	0.050	12/03/2018	ND	2.05	103	2.00	0.838	
Total Xylenes*	< 0.150	0.150	12/03/2018	ND	6.63	110	6.00	1.01	
Total BTEX	<0.300	0.300	12/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 %	73.3-12	9			,			
TPH 8015M	mg/l	kg	Analyze	d By: MS				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2018	ND	221	110	200	1.94	
DRO >C10-C28*	<10.0	10.0	12/01/2018	ND	227	114	200	2.69	

ND

Surrogate: 1-Chlorooctane
Surrogate: 1-Chlorooctadecane

EXT DRO >C28-C36

94.3 %

<10.0

41-142

10.0

106 %

37.6-147

12/01/2018

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### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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Celley T. trooma

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

		DIE CONTRACTOR	ANALYSIS REQUEST
Project Manager: Pruce bake	P.C	P.O.#:	- 1
Address;		Company:	
city: HODOS State NMZ	State NM Zip: V 8240 Attn:	<b>5</b> :	
Phone #: Fax #:		Address:	
Project #: Project Owner:	City:	<u> </u>	
Project Name:	State:	ite: Zip:	
Project Location: NB Wyou State So	ater Pho	Phone #:	
Sampler Name: Dop ( xin o Sacko	Fax #:	×#	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
H803509  H803509  (G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE/COOL OTHER:  DATE  TIME  EXT TA	
1506041	-	/ 1 25-12 CM-1 /	
250005		1 11-29-182:110-1	
3 50% 806	- 2	1 11-25-182:1421 /	
50 OCT 1	2 /	1 11-25-18 21 7 1	
5 506(0) 8/	/ /	1 11-24-18 2:15:24 - 1	
1 1 206 · Dus 1		1 11.29.4 2:21 1 5	
		-	
OF BASE NOTE: I shifte and Damman Cardinal's Sability and clearly sability and clearly			

analyses. All chaims including those for negli service. In no event shall Cardinal be liable i

Relinquished By: Sampler - UPS - Bus - Other: Relinquished By Delivered By: (Circle One) Chesala Time: Time: Date: Date: //-29-/8 Received By: Sample Condition
Cool Intact
Pres Pres
No No CHECKED BY: (Initials) K-Mail ☐ Yes ☐ No Add'! Phone #:

+ Cardinal rannot arrest werhal channes. Blease fav written channes to IETEL 1812-272E

Page 43 of 91

Received by OCD: 7/30/2021 1:32:20 PM



June 23, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NB TWEEN

Enclosed are the results of analyses for samples received by the laboratory on 06/21/21 16:50.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

(0.0) 200 = ...

Received: 06/21/2021 Sampling Date: 06/21/2021

Reported: 06/23/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP 6 W1 (H211602-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEX	<0.300	0.300	06/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	24.5	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					
Surrogate: 1-Chlorooctane	85.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	97.6	% 38.9-14	2						

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Celeg D. Freene



### Analytical Results For:

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

Received: 06/21/2021 Sampling Date: 06/21/2021

Reported: 06/23/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP 6 B1 @ 4' (H211602-02)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEX	<0.300	0.300	06/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/22/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					
Surrogate: 1-Chlorooctane	90.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	104	% 38.9-14	2						

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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: 06/21/2021 Sampling Date: 06/21/2021

Reported: 06/23/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP 6 B2 @ 4' (H211602-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEX	<0.300	0.300	06/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	64.4	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					
Surrogate: 1-Chlorooctane	89.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	103	% 38.9-14	2						

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Celey D. Keine



### Analytical Results For:

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

Received: 06/21/2021 Sampling Date: 06/21/2021

Reported: 06/23/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP 6 B3 @ 4' (H211602-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEX	<0.300	0.300	06/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/22/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	71.8	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					
Surrogate: 1-Chlorooctane	86.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	99.5	% 38.9-14	2						

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Celey D. Keine



### Analytical Results For:

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

Received: 06/21/2021 Sampling Date: 06/21/2021

Reported: 06/23/2021 Sampling Type: Soil Project Name: **NB TWEEN** Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker Project Number: NB TWEEN BATTERY

Project Location: **EDDY COUNTY** 

### Sample ID: SP 6 B6 @ 4' (H211602-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEX	<0.300	0.300	06/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/22/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	30.1	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					
Surrogate: 1-Chlorooctane	86.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	97.2	% 38.9-14	2						

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Celey D. Keine



### Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 06/21/2021 Sampling Date: 06/21/2021

Reported: 06/23/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP 6 B5 @ 4' (H211602-06)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEX	<0.300	0.300	06/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/22/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					
Surrogate: 1-Chlorooctane	82.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	94.4	% 38.9-14	2						

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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: 06/21/2021 Sampling Date: 06/21/2021

Reported: 06/23/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP 6 B6 @ 4' (H211602-07)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEX	<0.300	0.300	06/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/22/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	81.9	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	11.5	10.0	06/22/2021	ND					
Surrogate: 1-Chlorooctane	83.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	98.5	% 38.9-14	2						

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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: 06/21/2021 Sampling Date: 06/21/2021

Reported: 06/23/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP 5 W2 (H211602-08)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEX	<0.300	0.300	06/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/22/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	75.7	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					
Surrogate: 1-Chlorooctane	85.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	98.1	% 38.9-14	2						

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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: 06/21/2021 Sampling Date: 06/21/2021

Reported: 06/23/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP 5 B7 @ 1' (H211602-09)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEX	<0.300	0.300	06/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	10.2	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					
Surrogate: 1-Chlorooctane	84.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	95.2	% 38.9-14	12						

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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: 06/21/2021 Sampling Date: 06/21/2021

Reported: 06/23/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EDDY COUNTY

### Sample ID: SP 5 B8 @ 1' (H211602-10)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEX	<0.300	0.300	06/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/22/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					
Surrogate: 1-Chlorooctane	84.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	97.5	% 38.9-14	2						

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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: 06/21/2021 Sampling Date: 06/21/2021

Reported: 06/23/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP 1 @ 1' (H211602-11)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEX	<0.300	0.300	06/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					
Surrogate: 1-Chlorooctane	88.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	102	% 38.9-14	12						

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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: 06/21/2021 Sampling Date: 06/21/2021

Reported: 06/23/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP 2 @ 1' (H211602-12)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEX	<0.300	0.300	06/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					
Surrogate: 1-Chlorooctane	86.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	97.2	% 38.9-14	2						

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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: 06/21/2021 Sampling Date: 06/21/2021

Reported: 06/23/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP 3 @ 1' (H211602-13)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEX	<0.300	0.300	06/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/22/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					
Surrogate: 1-Chlorooctane	85.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	103	% 38.9-14	22						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 06/21/2021 Sampling Date: 06/21/2021

Reported: 06/23/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP 3 @ 2' (H211602-14)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	< 0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEX	<0.300	0.300	06/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					
Surrogate: 1-Chlorooctane	88.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	104	% 38.9-14	2						

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

` ,

 Received:
 06/21/2021
 Sampling Date:
 06/21/2021

 Reported:
 06/23/2021
 Sampling Type:
 Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: EDDY COUNTY

### Sample ID: SP 4 @ 6" (H211602-15)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEX	<0.300	0.300	06/22/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/22/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					
Surrogate: 1-Chlorooctane	88.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	101	% 38.9-14	2						

### 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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Freene



### **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

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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. Keine

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	1		BILL TO			ANAI YSIS REC	RECHEST	
Project Manager: 10 30		P.O.	#		2 3 3 4			
Address:		Co	Company:			* * * * * * * * * * * * * * * * * * *	o e	
city: HUSS	State: WW.Zip: SSOUC		7.	,				
Phone #:	Fax #:	×	Address:					
Project #:	Project Owner:	City:	7			W.		
Project Name:		State:	te: Zip:		3.2			
Project Location:	Ween Bitter	٤	#					
Sampler Name: Y 10	1 scool	) Fax #:	#				·	s i
FOR LAB USE ONLY		MATRIX	SERV.	SAMPLING				v'
	RS			194	<u>"H</u>			
Lab I.D. Samp	Sample I.D.	R:	BASE: COOL R:	/	EX			
H211162	# CO	WAST SOIL OIL SLUD OTHE		TIME	BI			
IM OLO I			16/21	XXXX	8			
101 070	No.			20.50			,	
4 SP6 33	2			2000				
SSP6 BY	e.cl			85.8				
7 306 35				0,3				
8 305 m2				Phio				
9 50587			1 1/01	1 94,0				
PLEASE NOTE: Liability and Damages. Cardinal's fibility and clears's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsperier shall be deemed values made in writing and a contract to the amount paid by the client for the	Illy and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the ari	hether based in contract or tort, s	hall be limited to the arrount paid	rount paid by the client for the	Ž.			E
SerVice. In no event shall Cardinal be liable for incidental of consequental 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 survices hereunder by Cardinal, regardless of whether such claim is based upon any of the above stathed pascons or otherwise.	r consequental darnages, including without limitation receives of survices hereunder by Cardinal, regardles	s, including without limitation, business interruptions, loss of use, or loss of profits incurred burder by Cardinal, regardless of whether such claim is based upon any of the above statted	se, or loss of profits incurred by cli upon any of the above stated rea	client, its subsidiaries, easons or otherwire.	•			
Neilliquisiled by:	Mate: Received By:	d By:		Verbal Result: ☐ Yes ☐ No Add'I Phone #:  All Results are emailed. Please provide Email address:	Yes   No   led. Please provid	Add'l Phone #: de Email address:		
Ocal Susuell	क्षेत्र १	mora dell	Make		a reaso provide	c Finali addices.		
celinquisned By:	Date: Received By:	d By:	(	REMARKS:				
	Time:							
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.8	Sample Condition Cool Intact	ED BY: als)	Turnaround Time:	Standard Rush	Bacteria (only) Cool Intact	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
	Collected lellby C	les les	10	Thermometer ID #113		Yes Yes		-

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager:					-
		P.O. #:			
Address:		. Company:			
City:	State: Zip:	Attn:			
Phone #:	Fax #:	Address:			
Project #:	Project Owner:	City:			M 10
Project Name:		State: Zip:		· ·	
Project Location:	200	#			
Sampler Name:	•	Fax #:	4	. :	
FOR LAB USE ONLY	IP.	MATRIX PRESERV.	SAMPLING		
Lab I.D. Samp	# CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TIME		
12 SP2 @11	-0		91 2:52 X X X X	x	
14 563 92			D 25		,
16 85 H @	6.		x x x x		
LEASE NOTE: Liability and Damages. Cardinal's liability and die nalyses. All claims including those for negligence and any other or ervice. In no event shall Cardinal be liable for inclodental or consecu- ficiates or a coessors arising out of or related to the performance	LEASE NOT IE: 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 malyses. 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 arrice. In no event shall Cardinal the liable for incidental or consequental damages, including without limitation, business inferruptions, loss of use, or loss of profits incurred by client, its subsidiaries, resuccessors arising out of or related to the performance of services hereunder by Cardinal, regardless of thefore such client's based upon any of the above stated neagons or otherwise.	ar based in contract or tort, shall be limited to the amount paid by the client for the made in writing and received by Cardinal within 30 days after completion of the threes inferruptions, loss of use, or loss of profits incurred by client, its sone interface such cleim; a based upon any of the above stated reasons or otherwise.	ount paid by the client for the systate completion of the applicable resystater completion of the applicable resystates, client, its subsidiaries, lated reasons or otherwise.		
Confidence By:	Time:	Tay Pally exe.	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:	□ No Add'I Phone #: ase provide Email address:	
Relinquisned By:	Date: Received By	*	REMARKS:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C. 44.8 San Corrected Temp. °C	Sample Condition CHECKED BY: Cool Intact (Initials)	Turnaround Time: Standard Thermometer ID #113.	Bacteria (only) S Cool Intact Yes Yes	lample Condition Observed Temp. °C



June 28, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NB TWEEN

Enclosed are the results of analyses for samples received by the laboratory on 06/22/21 16:50.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 06/22/2021 Sampling Date: 06/22/2021

Reported: 06/28/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: L1 @ SURFACE (H211624-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2021	ND	1.98	99.1	2.00	5.73	
Toluene*	<0.050	0.050	06/25/2021	ND	1.92	95.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	06/25/2021	ND	1.85	92.5	2.00	4.95	
Total Xylenes*	<0.150	0.150	06/25/2021	ND	5.62	93.7	6.00	4.69	
Total BTEX	<0.300	0.300	06/25/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/25/2021	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	1320	10.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	504	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	60.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	97.8	% 38.9-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celeg & Freene



### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

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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Celeg D. Freene

Relinquished By

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp. °C 5.4 Corrected Temp. °C

Sample Condition
Cool Intact
PYes PYes
No No

CHECKED BY: (Initials)

Turnaround Time:

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Yes Yes
No Corrected Temp.

Observed Temp. °C Corrected Temp. °C

Time:

Received By:

REMARKS:

All Results are emailed. Please provide Email address:

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Barel		BILL TO			ANALYSIS RI	REQUEST	
Project Manager:	John Brown		P.O. #:			_		
Address:			Company:				,	
city: Holob	State: NL	State: NW Zip: 882UO	Attn:		- 2			
Phone #:	Fax #:		Address:				,	
Project #:	Project Owner:	er:	City:			\\\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.		× *
Project Name:			State: Zip:					
Project Location:	UBTWEEN But	ないら	Phone #:		   1			
Sampler Name:	Jon Alexander	)r. J	Fax #:	*				×
FOR LAB USE ONLY		MATRIX	PRESERV. SAM	SAMPLING				
Lab I.D. <i>H211a4</i>	Sample I.D.	GRAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER. SOIL OIL SLUDGE	OTHER: ACID/BASE: CEX COOL OTHER:	TIME C/	EXTEX			
/	1 @Surface	9		10:30	7			
(								
							8	
2						4		
						/		
PLEASE NOTE: Liability and I	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort shall be limited to the amount raid by the client for the	any claim arising whether based in contract	or tort, shall be limited to the amount nair	d by the client for the				
analyses. All claims including service. In no event shall Card	analyses. All claims including those for negligence and any other cause whitesoever 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 be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall be dear the liable for incidental or consequential damages, including without limitation, business interruptions, toss of use, or loss of profits incurred by client, its subsidiaries.	e deemed waived unless made in writing and gwithout limitation, business interruptions, le	freceived by Cardinal within 30 days after oss of use, or loss of profits incurred by c	r completion of the applic flent, its subsidiaries.	able	9		
Relinquished By:	Relinquished By:  Date:  Received By:	Received By:	is based upon any of the above stated re-	Verbal Result:	□ Yes □ No	Add'l Phone #:		

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

Thermometer ID #113
Correction Factor None



July 01, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NB TWEEN

Enclosed are the results of analyses for samples received by the laboratory on 06/29/21 10:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 06/29/2021 Sampling Date: 06/28/2021

Reported: 07/01/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP - 7 @ 5' (H211681-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2021	ND	1.93	96.5	2.00	8.01	
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82	
Total BTEX	<0.300	0.300	06/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2021	ND	179	89.6	200	0.136	
DRO >C10-C28*	<10.0	10.0	06/29/2021	ND	192	96.0	200	0.553	
EXT DRO >C28-C36	<10.0	10.0	06/29/2021	ND					
Surrogate: 1-Chlorooctane	92.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	97.7	% 38.9-14	2						

### Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

 Received:
 06/29/2021
 Sampling Date:
 06/28/2021

 Reported:
 07/01/2021
 Sampling Type:
 Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP - 7 @ 6' (H211681-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2021	ND	1.93	96.5	2.00	8.01	
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82	
Total BTEX	<0.300	0.300	06/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2021	ND	223	112	200	5.39	
DRO >C10-C28*	<10.0	10.0	06/30/2021	ND	234	117	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/30/2021	ND					
Surrogate: 1-Chlorooctane	80.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	80.7	% 38.9-14	2						

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### Analytical Results For:

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

Received: 06/29/2021 Sampling Date: 06/28/2021

Reported: 07/01/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP - 7 @ 7' (H211681-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2021	ND	1.93	96.5	2.00	8.01	
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82	
Total BTEX	<0.300	0.300	06/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	10						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2021	ND	223	112	200	5.39	
DRO >C10-C28*	<10.0	10.0	06/30/2021	ND	234	117	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/30/2021	ND					
Surrogate: 1-Chlorooctane	81.2	% 44.3-13	23						
Surrogate: 1-Chlorooctadecane	81.3	% 38.9-14	!2						

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Celey D. Keine



### Analytical Results For:

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

Received: 06/29/2021 Sampling Date: 06/28/2021

Reported: 07/01/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP - 7 @ 8' (H211681-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2021	ND	1.93	96.5	2.00	8.01	
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82	
Total BTEX	<0.300	0.300	06/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	10						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2021	ND	223	112	200	5.39	
DRO >C10-C28*	<10.0	10.0	06/30/2021	ND	234	117	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/30/2021	ND					
Surrogate: 1-Chlorooctane	85.5	% 44.3-13	23						
Surrogate: 1-Chlorooctadecane	86.2	% 38.9-14	12						

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### Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-24

Fax To: (575) 393-2432

Received: 06/29/2021 Sampling Date: 06/28/2021

Reported: 07/01/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP - 8 @ 5' (H211681-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2021	ND	1.93	96.5	2.00	8.01	
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82	
Total BTEX	<0.300	0.300	06/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2021	ND	223	112	200	5.39	
DRO >C10-C28*	50.6	10.0	06/30/2021	ND	234	117	200	2.12	
EXT DRO >C28-C36	28.7	10.0	06/30/2021	ND					
Surrogate: 1-Chlorooctane	85.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	88.7	% 38.9-14	2						

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### Analytical Results For:

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

Received: 06/29/2021 Sampling Date: 06/28/2021

Reported: 07/01/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP - 8 @ 6' (H211681-06)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2021	ND	1.93	96.5	2.00	8.01	
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82	
Total BTEX	<0.300	0.300	06/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2021	ND	223	112	200	5.39	
DRO >C10-C28*	<10.0	10.0	06/30/2021	ND	234	117	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/30/2021	ND					
Surrogate: 1-Chlorooctane	77.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.8	% 38.9-14	2						

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### Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 06/29/2021 Sampling Date: 06/28/2021

Reported: 07/01/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP - 8 @ 7' (H211681-07)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2021	ND	1.93	96.5	2.00	8.01	
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82	
Total BTEX	<0.300	0.300	06/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2021	ND	223	112	200	5.39	
DRO >C10-C28*	<10.0	10.0	06/30/2021	ND	234	117	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/30/2021	ND					
Surrogate: 1-Chlorooctane	78.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	79.0	% 38.9-14	2						

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### Analytical Results For:

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

Received: 06/29/2021 Sampling Date: 06/28/2021

Reported: 07/01/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

### Sample ID: SP - 8 @ 8' (H211681-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2021	ND	1.93	96.5	2.00	8.01	
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82	
Total BTEX	<0.300	0.300	06/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2021	ND	223	112	200	5.39	
DRO >C10-C28*	<10.0	10.0	06/30/2021	ND	234	117	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/30/2021	ND					
Surrogate: 1-Chlorooctane	82.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.4	% 38.9-14	2						

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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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Celeg D. Freene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (5/5) 393-24/6			ANA	ANAI YSIS REQUEST	TST	
Company Name:	BILL 10		7.00			1
Project Manager: ) Let Brown	P.O. #:					
Address:	Company:			- T		
City: XXXXIII State: VX Zip: SXXXII O	Attn:	,				
	Address:			,		^.
	City:	, N			3	· ·
ame:	State: Zip:				_	
Project Location: VRTILLES STATES	Phone #:				×	
	Fax #:				1	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	LING			- 2	
CONTAINERS FROUNDWATER VASTEWATER FOIL FILIDGE	OTHER: ACID/BASE: OTHER: OTHER: OTHER:	MEXT TPL BIEX			•	
SP7 • 5' Bill		0.80 X				
3 89707		9:42				
1 SP 708 V		900:0				
68866		0,50				
20805, 2080 8,	1 6(2) 9: 52	9 S2 X	ys,			
the band is contract or tout shall be limited to the amount raid by the client for the	of or fort shall be limited to the amount pair	d by the client for the				
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after compression or the subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or foss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or foss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or foss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or foss of profits incurred by client, its subsidiaries, service.	and received by Cardinal within 30 days after s, loss of use, or loss of profits incurred by cl	ir completion of the approvale states, asons or otherwise.				
Relinquished By:  Time:	John John Committee of the Committee of	re em	☐ Yes ☐ No Add'l Phone #: ailed. Please provide Email address:	Add'l Phone #: de Email address:		
Retraduished By:  Date: Received By:  Time:	· · ·	REMARKS	,			
Delivered By: (Circle One)  Observed Temp. °C  Cool Intact  Corporated Temp. °C  A. 4  Cool Intact  Corporated Temp. °C	lition CHECKED BY:	Turnaround Time: Thermometer ID #113	Standard X	Bacteria (only) Cool Intact ☐ Yes ☐ Yes	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	o n
The state of the s						



July 14, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NB TWEEN

Enclosed are the results of analyses for samples received by the laboratory on 07/13/21 9:40.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

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Received: 07/13/2021 Sampling Date: 07/12/2021

Reported: 07/14/2021 Sampling Type: Soil

Project Name: NB TWEEN Sampling Condition: Cool & Intact
Project Number: NB TWEEN BATTERY Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY

### Sample ID: SP7 @ 1' (H211805-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2021	ND	2.12	106	2.00	1.58	
Toluene*	<0.050	0.050	07/13/2021	ND	2.04	102	2.00	1.50	
Ethylbenzene*	<0.050	0.050	07/13/2021	ND	1.97	98.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/13/2021	ND	6.02	100	6.00	1.55	
Total BTEX	<0.300	0.300	07/13/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2021	ND	212	106	200	2.71	
DRO >C10-C28*	361	10.0	07/13/2021	ND	223	111	200	7.96	
EXT DRO >C28-C36	133	10.0	07/13/2021	ND					
Surrogate: 1-Chlorooctane	90.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	117 %	6 38.9-14	2						

### 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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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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  $6^{\circ}\text{C}$ 

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



			AND THE PROPERTY OF THE PROPER	- 1	
Company Name:	<b>\</b>	BILL TO		ANALYSIS REQUEST	
Project Manager: John R	Society	P.O. #:			
Address:		Company:			
city: Hobos	State: NWZip: <8940	Attn:			
Phone #:	Fax#:	Address:			
Project #:	Project Owner:	City:			
Project Name:		State: Zip: ~			
Project Location: NRSTU	Jun Butters	Phone #:	•		
3	77	Fax #:		1	
4	MATRIX	PRESERV. SAMPLING	LING		
Lab I.D. Sam	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE)/ COOL OTHER:	EXT TP		
-01 SP7 @11	0	7 7/10	S.COT X X		
			•		
PLEASE NOTE: Liability and Damages. Cardinal's lic analyses. All claims including those for negligence are service. In no event shall Cardinal be liable for incider	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applications. 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 applications.	act or tort, shall be limited to the amount paid by the client for the and received by Cardinal within 30 days after completion of the a ps, loss of use, or loss of profits incurred by client, its subsidiaries	d by the client for the romplicable completion of the applicable fient, its subsidiaries.		
affiliates a successors arising out of or related to the performance Reylinduished By/	performance of services hereunder by Cardinal, regardles and whather such da	is based upon any of the above stated re	Verbal Result: Yes No	Add'l Phone #:	
he Church	5	W (3:40		ide Cinali audi ess.	
Reflhadished By:	Time:				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C — C Sample Condition Coorrected Temp. °C Pres Pres No No No	odition CHECKED BY: (Initials) Yes (No CM ##/ 3	Turnaround Time: Rush Thermometer ID #113 Correction Factor None	Bacteria (only) Sample Condition Cool Infact Observed Temp. °C Yes Yes No Corrected Temp. °C	Č Č





# North West Elevation

**② 136°SE (T) ③ 32°48'29"N, 104°7'29"W ±88ft** ▲ 3682ft



# **North Elevation**



# **South West Elevation**





# **South West Elevation**





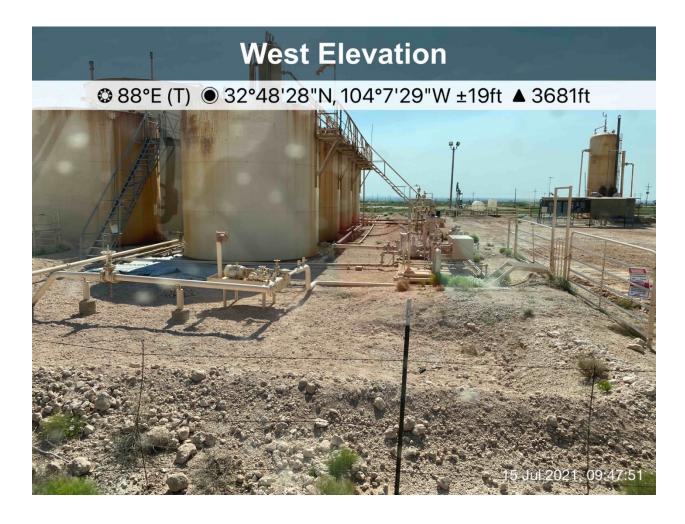


## **South Elevation**

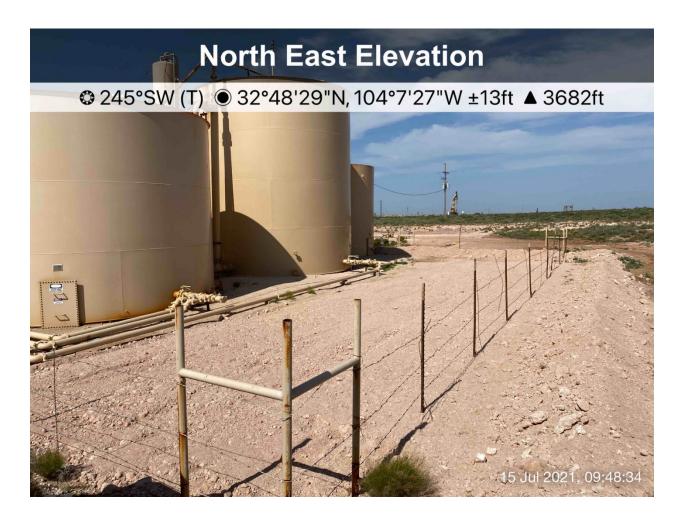


# **South West Elevation**











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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 38949

### **CONDITIONS**

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	38949
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created By	Condition	Condition Date
amaxwell	The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	3/17/2023