

DAVID FEATHER ENVIRONMENTAL SUPERVISOR DIRECT; (432) 818-1615 E-MAIL; DAVID.FEATHER @APACHECORP.COM

2 RP-1134 NMLB1215050616

October 1, 2019

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

RE: 2RP-1134 NB Tween # 16

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 March 12, 2012. Apache is respectfully submitting the closure report based on studies occurring in 2019 that demonstrate the site meeting the requirements of the agency. Unless further information is requested by NMOCD, Apache Corporation considers this release closed.

If there are any questions, please feel free to contact me by telephone at 432-818-1615 or by e-mail at David.Feather@ApacheCorp.com.

Sincerely,

David Feather

Environmental Supervisor

Apache Corporation - Permian Basin Region

Attachment: Closure Report Dated August 28, 2019

Trinity Oilfield Services & Rentals, LLC



Environmental Site Summary & Closure Request

Company: Apache Corporation Address: 2530 W. Marland St., Hobbs, NM 88240 Telephone #: (575) 393-7106
Site Name: NB Tween #16 NMOCD Reference#: 2RP-1134
Surface Owner: Concho Resources Mineral Owner: State of New Mexico
Unit Letter: H (SE/NE) Section: 25 Township: 17S Range: 28E County: Eddy GPS Coordinates: 32.809462 N -104.124638 W
Date/Time of Release: <u>3/12/2012</u> Type of Release: ☑ Crude Oil ☐ Produced Water
Volume(s) Released: 10 bbls Volume(s) Recovered: 0 bbls
Closure Criteria for Impacted Soil (mg/kg; See Appendix C, "Closure Criteria Justification"):
Benzene: 10 BTEX: 50 GRO+DRO: 1,000 TPH: □ 100 Chloride: □ 600 □ 2,500 □ 10,000 □ 20,000
On March 12, 2012, Apache Corporation (Apache) discovered a release at the NB Tween #16 well site. Failure of a blowout preventer (BOP) valve resulted in the release of approximately 10 barrels (bbls) of crude oil. The release was limited to the caliche pad around the wellhead and did not affect the adjacent pasture. The seals on the BOP were replaced during initial response activities. The release was reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs District Office on March 21, 2012. The NMOCD "Release Notification & Corrective Action" form (C-141) is provided as Appendix A. A "Site Location Map" is provided as Figure 1. Remediation of the affected area took place at some point following the release. However, no extant documentation or work records of such activities could be located. In addition, no records or analytical results from soil sampling could be obtained from Cardinal Laboratories. On July 25, 2019, Apache requested Trinity Oilfield Services & Rentals, LLC (Trinity), assume remediation activities at the release site.
Summary of Field Activities:
On August 5, 2019, representatives of Trinity conducted a sampling event to assess the current state of the site. A hand auger was utilized to advance a series of 3 boreholes (SP-1 through SP-3) in the inferred affected area around the wellhead to investigate the extent of impacted soil. The boreholes were advanced to the extent practicable to the hard rock layer running underneath the site, which was encountered approximately 1.5 feet below ground surface (bgs). Soil samples were collected at ground surface and 1 foot bgs from each location, and confirmation samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of chloride, total petroleum hydrocarbons (TPH), and benzene, toluene, ethylbenzene, and total xylene (BTEX) concentrations using Environmental Protection Agency (EPA) Methods 4500-Cl B, SW 846-8015 Mod, and SW 846-8021B, respectively. Laboratory analytical results indicated TPH and BTEX constituent concentrations were below the laboratory method detection limit (MDL) in all submitted soil samples, with the exception of sample SP-2 @ 1', which exhibited a TPH
concentration of 485 mg/kg. Chloride concentrations ranged from 80.0 mg/kg in soil sample SP-3 @ Surface to 1,040 mg/kg in sample SP-1 @ Surface.

Locations of the auger holes are depicted in Figure 2, "Sample Location Map". Laboratory analytical results are

summarized in Table 1, and an analytical report is provided in Appendix C.

Trinity Oilfield Services & Rentals, LLC





Site Closure Request:

Soil samples collected from the inferred impacted area were analyzed by an NMOCD-approved laboratory, and concentrations of chloride, TPH, and BTEX were below the Closure Criteria listed in Table I of Section 19.15.29.12 of the New Mexico Administrative Code (NMAC) for a site where depth to groundwater is greater than 100 feet bgs (see Appendix B, "Closure Criteria Justification", for more information). Based on these laboratory analytical results, the initial response and subsequent activities conducted at the site in 2012 were effective in remediating the release. Trinity, on behalf of Apache, hereby requests the NMOCD grant closure to the NB Tween #16 release site.

Enclosures:

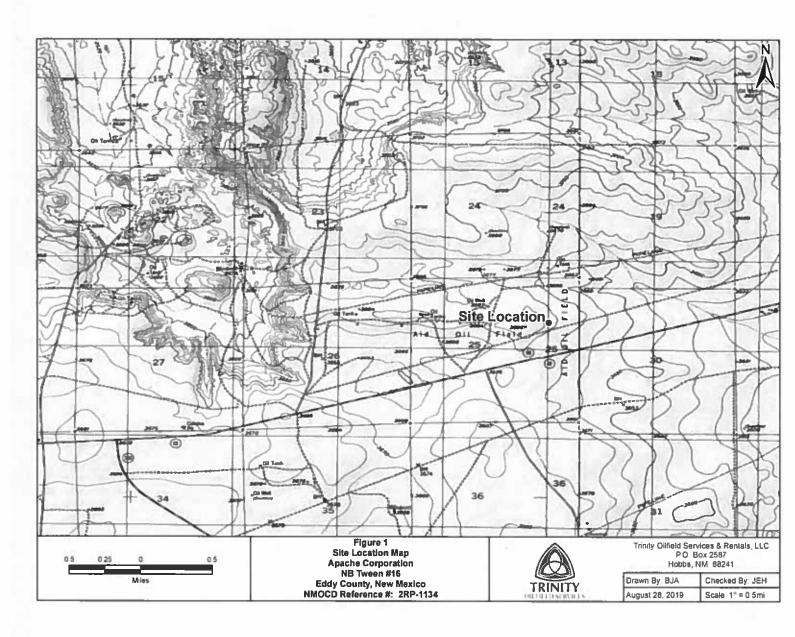
Figure 1: Site Location Map

Figure 2: Sample Location Map

Table 1: Concentrations of Benzene, BTEX, TPH & Chloride in Soil Appendix A: Release Notification & Corrective Action (Form C-141)

Appendix B: Closure Criteria Justification Appendix C: Laboratory Analytical Results 8/28/2019

Ben J. Arguijo Project Manager **Figures**



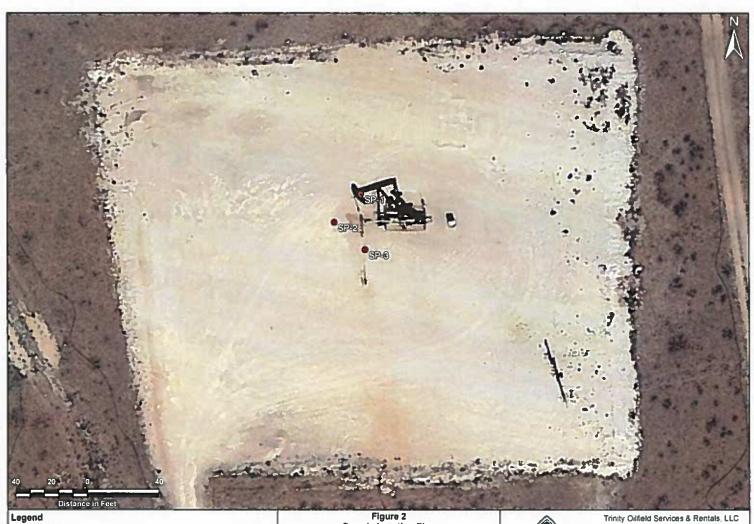


Figure 2
Sample Location Plan
Apache Corporation
NB Tween #16
Eddy County, New Mexico
NMOCD Reference #: 2RP-1134

Trinity Oilfield Services & Rentals, LLC PO Box 2587 Hobbs, NM 88241

Drawn By: BJA Checked By JEH

August 28, 2019 Scale: 1" = 40" **Tables**

TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

APACHE CORPORATION NB TWEEN #16 EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-1134



					EPA SI	N-846 Method	180218			EPA SW	i-846 Metho	d 8015M		4500-CI B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	GRO C6-C12 (mg/kg)	DRO C12-C28 (mg/kg)	GRO+ DRO (mg/kg)	MRO C28-C35 (mg/kg)	TPH C6-C35 (mg/kg)	CHLORIDE (mg/kg) 20,000
NMO	CD Closure L	mits (mg/kg)		10	NE	NE	NE	50	NE	NE	1,000	NĒ	2,500	20,000
SP-1 @ Surface SP-1 @ 1'	Surface 1'	8/5/2019 8/5/2019	In-Situ In-Situ	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300 <0.300	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	1.040 752
SP-2 @ Surface SP-2 @ 1'	Surface 1'	8/5/2019 8/5/2019	in-Situ In-Situ	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300 <0.300	<10.0 <10.0	<10.0 337	<10.0 337	<10.0 148	<10.0 485	144 400
SP-3 @ Surface SP-3 @ 1'	Surface 1'	8/5/2019 8/5/2019	In-Situ In-Situ	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300 <0.300	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	80.0 160

NE = Not Established
- = Not Analyzed
Concentrations in BOLD exceed the NMOCD Closure Limit

Page 1 of 1

Appendices

Appendix A Release Notification & Corrective Action (Form C-141)

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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.

			Kele	ease Notific	atio	n and Co	orrective A	ction	1				
AMLB 1215	V 50616	,				OPERA'	ГOR		⊠ Initia	al Report		Final Re	port
Name of Co	mpany A	pache Corpo		873			talie Gladden			· ·			<u>'</u>
		Eunice, NA	1 88231				No. 575-390-41						
Facility Na	me NB IV	veen #16					e Production w	ell					
Surface Ow	ner Concl	no Resource:	š	Mineral C)wner	State			API No	. 30-015-3	8406		
				LOCA		N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	East/\	West Line	County			
Н	25	175	28E	1650'	FNL		990'	FEL		Eddy			
			La	titude		Longitud	lc						
				NAT	URE	OF REL	EASE		_				
Type of Rele	ase Oil						Release 10			Recovered 0			
Source of Re						Date and F 3/12/12	lour of Occurrence	e	Date and 03/12/12	Hour of Dis	covery		
Was Immedi	ate Notice C		Yes [No Not Re	quired	If YES, To Bratcher	Whom?						
By Whom?		- 10/1					lour 3/21/02 824a						
Was a Water	course Reac		Yes 🗵	No		If YES, Vo	olume Impacting t						
If a Watercon	urse was Im	pacted, Descr	ibe Fully.	•					reci	EIVE	} 		
1									ADD S	3'0 2012	i		
Describe Cau	ise of Probli	em and Reme	dial Actio	n Taken *	<u>-</u>			- N	MOCD	ARTES	IA		
				ening before but	it did no	t scal correct	ly. Seals were rep	olaced a	nd fluid wa	s recovered.			
				4									
15 11		1.01	m 12 m									<u></u>	
Describe Are Site will be re				ten." ines will be follov	ved to c	losure of this	release.						
												700	
I hereby certi	fy that the in	nformation gi	ven above	is true and comp id/or file certain re	lete to the	he best of my	knowledge and u	ndersta	nd that purs	uant to NM	OCD n	ules and	
public health	or the envir	onment. The	acceptano	c of a C-141 repo	irt by th	e NMOCD m	arked as "Final R	cport" d	loes not reli	ieve the oper	rator of	fliability	
should their o	perations h	ave failed to a	idequately	investigate and retance of a C-141	emediat	e contaminati	on that pose a thre	cat to gi	round water	r, surface wa	ter, hu	man health	1
federal, state,	or local lav	vs and/or regu	lations.			——————————————————————————————————————	e the operator of t	cspons	IDINITY TOP CO	omphance w	iui any	Other	
/		1	1			,	OIL CON	SERV	ATION	DIVISIO	<u>N</u>		
Signature:		Till	1 97	Vaaa		/	C: 3 D 7	al. 1.	Kara				
Printed Name	: Natalic G	iladden	<u> </u>			Approved by	Signed By Environmental S	pecialis	DEM	ucr_	· 		
Title: EHS E	nvironment	al Tech				Approval Da	AY 29 2017	2 1	Expiration :	Date:			
E-mail Addro	ss: natalic.	gladdcn@apa	checorp.c	om		Conditions of	Approval:	la a O		Attached			
Date: 3/26/12	Pi	опе:575-390	-4186		ı	Remediati	on per OCD Ri	165 & 187101	N	1			
Attach Addi					Gu	delines SI	IBMIT REMIED	IMITO	_	200		10.1	
					PR		OT LATER THA	(IM)	(ZRF	'- [[54	
						6/0	7/00,0				•	f	

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	175 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ► No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	Yes No
Are the lateral extents of the release overlying a subsurface mine?	Yes No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	Yes No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes 🖸 No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vecontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	ertical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring we	lls.
Data table of soil contaminant concentration data Depth to water determination	
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs	
Photographs including date and GIS information Topographic/Aerial maps	
Laboratory data including chain of custody	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141 Page 4

State of New Mexico Oil Conservation Division

Incident ID		
District RP		
Facility ID	_	
Application ID		

regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a th addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	otifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name: Bruce Baker	Title: Environmental Tech SR.
Signature: Bruce Bahn	Date: 9/30/19
email: larry, baker @ apachecorp.com	Telephone: 432 - 631 - 6982
OCD Only	
Received by:	Date:

Form C-141 Page 6

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the followi	ing items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.	.29.11 NMAC
Photographs of the remediated site prior to backfill or phomust be notified 2 days prior to liner inspection)	otos of the liner integrity if applicable (Note: appropriate OCD District office
	ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
M	
may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or representation, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the	mplete to the best of my knowledge and understand that pursuant to OCD rules ertain release notifications and perform corrective actions for releases which see of a C-141 report by the OCD does not relieve the operator of liability difference contamination that pose a threat to groundwater, surface water, see of a C-141 report does not relieve the operator of responsibility for egulations. The responsible party acknowledges they must substantially see conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete.
Printed Name: Bruce BAKer	Title: Environmental Tech. SR
Signature: Buce Baker	Date:
Printed Name: Bruce BAKer Signature: Bruce Baker email: larry, baker Gapachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible paremediate contamination that poses a threat to groundwater, surfaparty of compliance with any other federal, state, or local laws a	arty of liability should their operations have failed to adequately investigate and ace water, human health, or the environment nor does not relieve the responsible and/or regulations.
Closure Approved by: Bradford Billings	Date: 05/22/2020
Printed Name: Bradford Billings	Title: E. Spec. A

NOTE: As a general rule OCD does not use old groundwater trend map for decision on depth to water, and lack of evidence is not lack of occurrance. Significant sampling for Section 13 of Rule 29 will need to occur at P&A, and may incldue a more detailed depth to water analysis.

Appendix B Closure Criteria Justification

TABLE 3 CLOSURE CRITERIA JUSTIFICATION

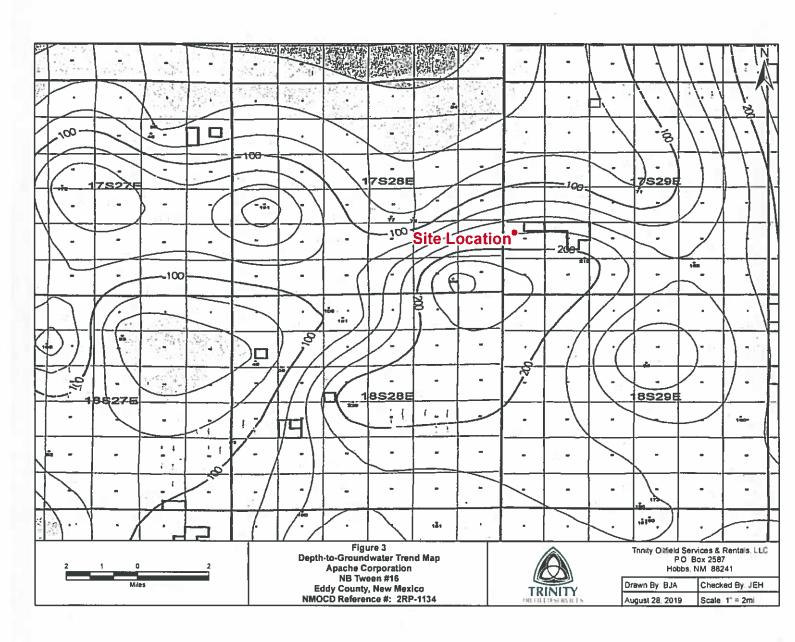
APACHE CORPORATION NB TWEEN #16 EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-1134

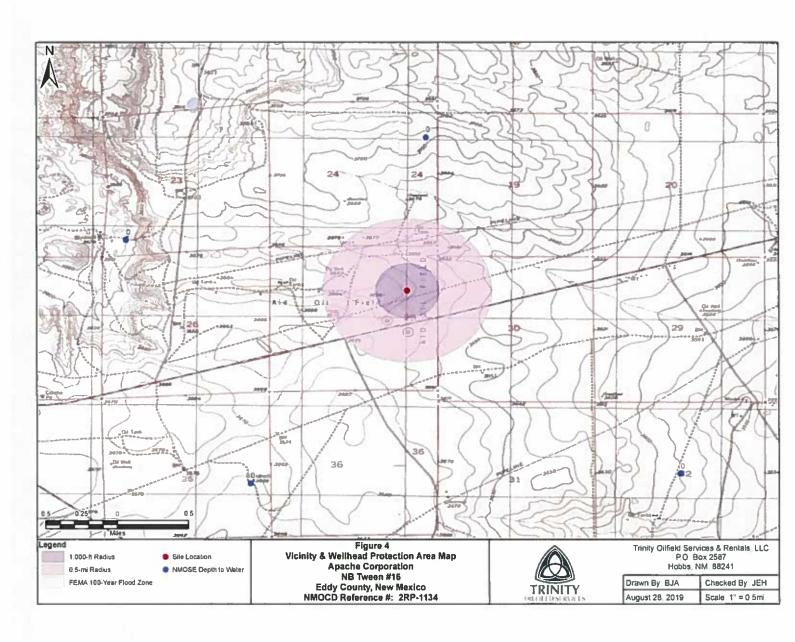


Groundwater, Water Wells & Other Water Sources	
Depth to groundwater (ft)?	175
Horizontal distance (ft) from all water sources within 0.5 miles?	N/A
Within 500' of a spring or a private, domestic fresh water well used by less than S households for domestic or stock watering purposes?	No
Within 1000' of any fresh water well or spring?	No
Surface Water	
Horizontal distance (ft) to nearest significant watercourse?	>1,000
Within 300' of any continuously flowing watercourse or any other significant watercourse?	No
Within 200' of any lakebed, sinkhole or playa lake?	No
Human-Occupied, Environmental & Other Areas	
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No
Within 300' of an occupied permanent residence, school, hospital, institution or church?	No
Within 300' of a wetland?	No
Within the area overlying a subsurface mine?	No
Within an unstable area?	No
Within a 100-year floodplain?	No

Closure Criteria (mg/kg)*								
Benzene	BTEX	GRO + DRO	TPH	Chloride				
10	50	1,000	2,500	20,000				

^{*}Numerical limits or natural background level, whichever is greater







New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 581949.3

Northing (Y): 3630503.42

Radius: 1610 (1 mile)

Appendix C Laboratory Analytical Reports



August 08, 2019

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 08/05/19 15:15.

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

Cardinal Laboratories is 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)

Whe Sough

Accreditation applies to public drinking water matrices.

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 393-2432

Received: Reported: 08/05/2019

08/08/2019

Project Name: Project Number: **NB TWEEN**

Project Location:

NB TWEEN STATE #16

EDDY COUNTY

Sampling Date:

08/05/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP - 1 SURFACE (H902677-01)

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	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2.00	0.598	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	97.9	% 73.3-12	9		- Mar Modin II di disabasahisi				
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	08/08/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2019	ND	213	107	200	0.553	
DRO >C10-C28*	<10.0	10.0	08/06/2019	ND	208	104	200	0.767	
EXT DRO >C28-C36	<10.0	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	67.9	% 41-142							
Surrogate: 1-Chlorooctadecane	69.4	% 37.6-14	17						

Cardinal Laboratories

*=Accredited Analyte

PLEASE MOTE: Usablety and Damages. Cardinal's liability and client's enclusive remetly for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysies. All claims, including those for negligence and eny other clause whitstoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be hable for incidencial or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by cleent, its autoid-laims, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated mations or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Libitoristories.

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

Page 2 of 9



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

Fax To:

(575) 393-2432

Received:

08/05/2019

Reported:

08/08/2019

Project Name:

NB TWEEN

Project Number:

NB TWEEN STATE #16

Project Location:

EDDY COUNTY

Sampling Date:

08/05/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP - 1 @ 1 (H902677-02)

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	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2.00	0.598	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.89	% 73 3-12	9	tamen anne distance distributado de tiene a difere					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	08/08/2019	ND	432	108	400	0.00	
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	08/06/2019	ND	213	107	200	0.553	
DRO >C10-C28*	<10.0	10.0	08/06/2019	ND	208	104	200	0.767	
EXT DRO >C28-C36	<10.0	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	73.8	% 41-142	?			·			
Surrogate: 1-Chlorooctadecane	746	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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

Page 3 of 9



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

Fax To:

(575) 393-2432

Received:

08/05/2019

Reported:

08/08/2019

Project Name: Project Number: NB TWEEN

Project Location:

NB TWEEN STATE #16

EDDY COUNTY

Sampling Date:

08/05/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP - 2 SURFACE (H902677-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2.00	0.598	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND '					
Surrogate: 4-Bromofluorobenzene (PIE	98.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	144	16.0	08/08/2019	ND	432	108	400	0.00	
TPH 8015M	mg/kg Result Reporting Limit 144 16.0 mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	08/06/2019	ND	213	107	200	0.553	
DRO >C10-C28*	<10.0	10.0	08/06/2019	ND	208	104	200	0.767	
EXT DRO >C28-C36	<10.0	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	64.4	% 41-143	?						
Surrogate: 1-Chlorooctadecane	62.6	% 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:

08/05/2019

Reported:

08/08/2019

Project Name:

NB TWEEN

Project Number: Project Location:

NB TWEEN STATE #16

EDDY COUNTY

Sampling Date:

Sample Received By:

08/05/2019

Soil

Sampling Type:

Sampling Condition:

Cool & Intact

Tamara Oldaker

Sample ID: SP - 2 @ 1 (H902677-04)

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	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2.00	0.598	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC			1)		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/08/2019	ND	432	108	400	0.00	
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	08/06/2019	ND	213	107	200	0.553	
DRO >C10-C28*	337	10.0	08/06/2019	ND	208	104	200	0.767	
EXT DRO >C28-C36	148	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	70.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	81.6	% 37.6-14	7						

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

Page 5 of 9



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

Received:

08/05/2019

Reported:

08/08/2019

Project Name:

NB TWEEN

Project Number:

NB TWEEN STATE #16

Project Location:

EDDY COUNTY

Sampling Date:

08/05/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP - 3 SURFACE (H902677-05)

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	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2.00	0.598	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/08/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS		- 5-1		- 1.0	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2019	ND	215	108	200	1.84	
DRO >C10-C28*	<10.0	10.0	08/06/2019	ND	230	115	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	81.5	% 41-142				,			
Surrogate: 1-Chlorooctadecane	87.6	% 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: Reported: 08/05/2019

08/08/2019

Project Name:

NB TWEEN

Project Number: Project Location: **NB TWEEN STATE #16**

EDDY COUNTY

Sampling Date:

08/05/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP - 3 @ 1 (H902677-06)

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	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*	<0.050		08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*			08/07/2019	ND	1.87	93.7	2.00	0.598	
Total Xylenes*			08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX			08/07/2019	ND					
Surrogate 4-Bromofluorobenzene (PIE	99.5	% 73.3-12	9						
Chloride, SM4500CI-B	M4500CI-B mg/kg		Analyze	d By: AC				17	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/08/2019	ND	432	108	400	0.00	
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	08/06/2019	ND	215	108	200	1.84	
DRO >C10-C28*	<10.0	10.0	08/06/2019	ND	230	115	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	82.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.6	% 37.6-14	17						

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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 SM4500CI-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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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State:	21	Zip:				Attn:								Т					П					- 1		ı	
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Project Name: NB Tween State #16				St	ate:			Zip:																1			
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SAMPLING SPAN #1 Date: Date	State: Zip: Attn: Fax #: Address: Project Owner: City: State: Zip: Phone #: Phone #: Parie: Time # Sample I.D. Sample I.D. Sample I.D. MATRIX PRESERV. SAMPLING MATRIX PRESERV. SAMPLING MATRIX PRESERV. SAMPLING STATE TIME STATE STATE STATE SAMPLING MATRIX PRESERV. SAMPLING AND TIME STATE ST	State: Zip: Attn: Fax #: Address: City: State: Zip: Phone #: Phone #: Pax 8: N3 Twen State ### Project Owner: N3 Twen State ### Project Owner: N3 Twen State ### Phone #: Pax 8: Phone ### Phone ### Phone ### Fax 8: Sample I.D. Sample I.D. Sylvariant	State: Zip: Attn: Fax #: Address: Project Owner: City: NB Tween State: ## Date: Take ## Sample I.D. 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