



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

1RP-903
NPAC0615628028

September 30, 2019

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

RE: 1RP-903 State C Tract 12 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 May 12, 2006. 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 29, 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: State C Tract 12 Battery NMOCD Reference#: 1RP-903

Surface Owner: State of New Mexico Mineral Owner: State of New Mexico

Unit Letter: C Section: 16 Township: 21S Range: 37E County: Lea GPS Coordinates: 32.482402 N -103.172293 W

Date/Time of Release: 5/12/2006 Type of Release: Crude Oil Produced Water

Volume(s) Released: 35 bbls (total fluid) Volume(s) Recovered: 25 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

Background Information:

On May 12, 2006, Apache Corporation discovered a release at the State C Tract 12 Battery. Failure of a fire tube gasket on a heater treater resulted in the release of approximately 35 barrels (bbls) of a mixture of crude oil and produced water. The majority of the spill was confined to the earthen containment berm surrounding the heater treater, but overspray from the release impacted a small area of the adjacent pasture. During initial response activities, the gasket was repaired or replaced, and a vacuum truck was utilized to recover approximately 25 bbls of free-standing liquid.

The release was immediately reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs District Office. The NMOCD "Release Notification & Corrective Action" form (C-141) is provided as Appendix A. A "Site Location Map" is provided as Figure 1.

At some point following the release, additional remediation of the affected area took place. 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, as the Environmental Protection Agency's (EPA) mandated time period for record retention has elapsed.

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 2, 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 inside the containment to investigate the extent of impacted soil. The auger holes were advanced to total depths of 2 feet below ground surface (bgs). Soil samples were collected at 1-foot vertical intervals, 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-CI 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. Chloride concentrations ranged from 16.0 mg/kg (soil samples SP-1 @ Surface, SP-2 @ Surface, SP-2 @ 1', SP-2 @ 2', and SP-3 @ 1') to 80.0 mg/kg (SP-3 @ 2').

Locations of the auger holes are depicted in Figure 2, "Sample Location Map (2009 Aerial)", and Figure 3, "Sample Location Map (2019 Aerial)". Laboratory analytical results are summarized in Table 1, and an analytical report is provided in Appendix C.

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary & Closure Request



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 51-100 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 2006 were effective in remediating the release. Trinity, on behalf of Apache, hereby requests the NMOCD and NMSLO grant closure to the State C Tract 12 Battery release site.

Enclosures:

Figure 1: Site Location Map

Figure 2: Sample Location Map (2009 Aerial)

Figure 3: Sample Location Map (2019 Aerial)

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

 8/29/2019
Ben J. Arguijo
Project Manager

Figures

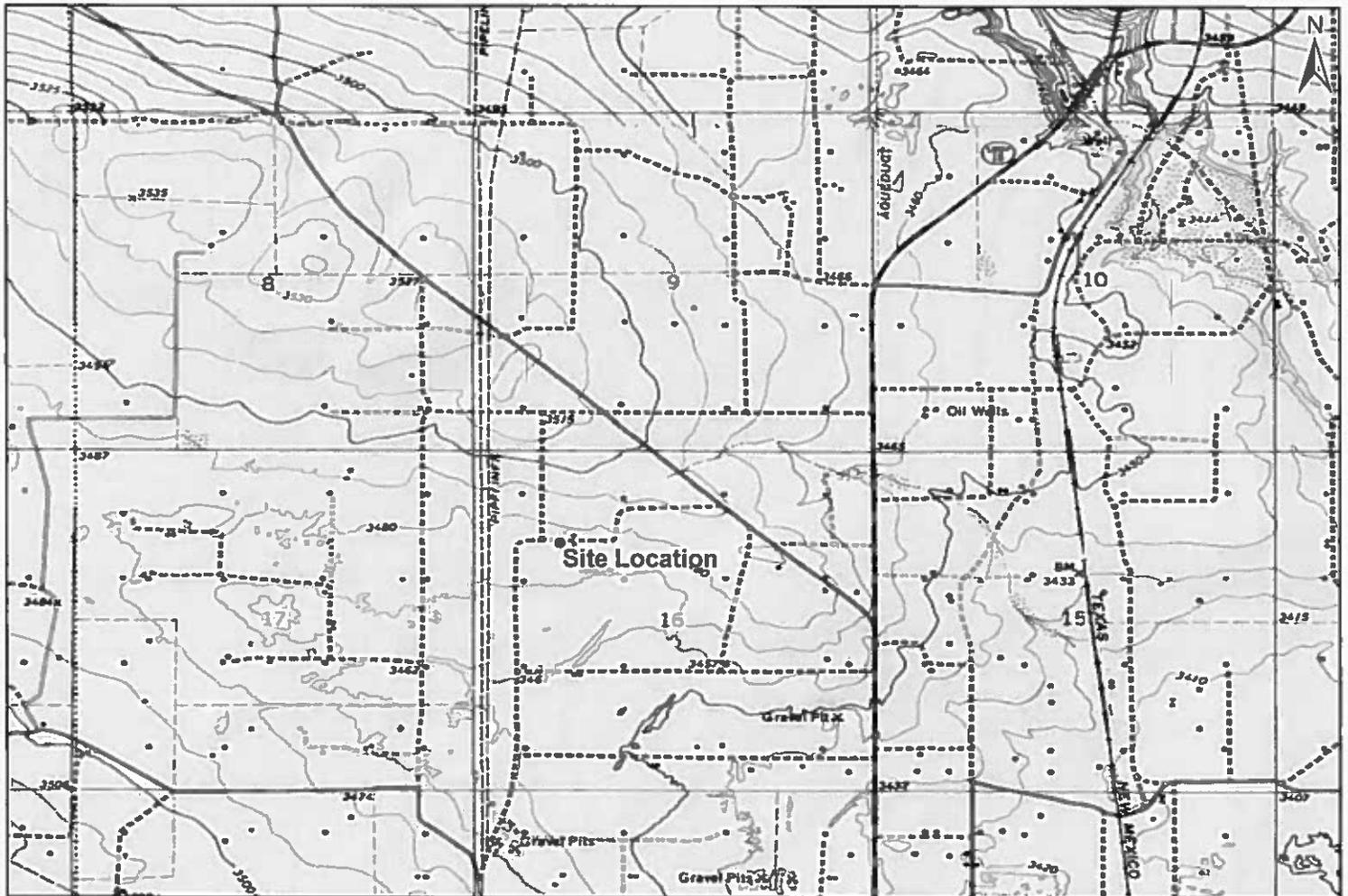
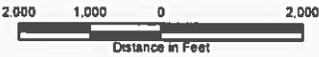


Figure 1
 Site Location Map
 Apache Corporation
 State C Tract 12 Battery
 Lea County, New Mexico
 NMOCD Reference #: 1RP-903



Trinity Oilfield Services & Rentals, LLC
 P.O. Box 2587
 Hobbs, NM 88241



Drawn By: BJA	Checked By: JEH
August 29, 2019	Scale 1" = 2,000'



Legend
 ● Auger Hole

Figure 2
Sample Location Map (2009 Aerial)
 Apache Corporation
 State C Tract 12 Battery
 Lea County, New Mexico
 NMOCD Reference #: 1RP-903



Trinity Oilfield Services & Rentals, LLC
 P.O. Box 2587
 Hobbs, NM 88241

Drawn By: BJA	Checked By: JEH
August 29, 2019	Scale: 1" = 80'



Legend
 ● Auger Hole

Figure 3
Sample Location Map (2019 Aerial)
 Apache Corporation
 State C Tract 12 Battery
 Lea County, New Mexico
 NMOCD Reference #: 1RP-903



Trinity Oilfield Services & Rentals, LLC
 P.O. Box 2587
 Hobbs, NM 88241

Drawn By: BJA	Checked By: JEH
August 29, 2019	Scale: 1" = 30'

Tables

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

APACHE CORPORATION
STATE C TRACT 12 BATTERY
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE #: 1RP-903



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	EPA SW-846 Method 8021B					EPA SW-846 Method 8015M				4500-CI B	
				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)
NMOCD Closure Limits (mg/kg)				10	NE	NE	NE	50	NE	NE	1,000	NE	2,500	10,000
SP-1 @ Surface	Surface	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP-1 @ 1'	1'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP-1 @ 2'	2'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP-2 @ Surface	Surface	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP-2 @ 1'	1'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP-2 @ 2'	2'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP-3 @ Surface	Surface	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SP-3 @ 1'	1'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP-3 @ 2'	2'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0

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

Appendices

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

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?	<u>70</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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 wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-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.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Bruce BAKER Title: Environmental Tech SR.
 Signature: Bruce Baker Date: 9/30/19
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Bruce Baker Title: Environmental Tech SR.
 Signature: Bruce Baker Date: 9/30/19
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Closure DENIED. Depth to water not adequately assessed and I see not data on overspay area,

Bradford Billings

Appendix B
Closure Criteria Justification

**TABLE 2
CLOSURE CRITERIA JUSTIFICATION**

**APACHE CORPORATION
STATE C TRACT 12 BATTERY
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE #: 1RP-903**



Groundwater, Water Wells & Other Water Sources	
Depth to groundwater (ft)?	70
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 5 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	10,000

*Numerical limits or natural background level, whichever is greater

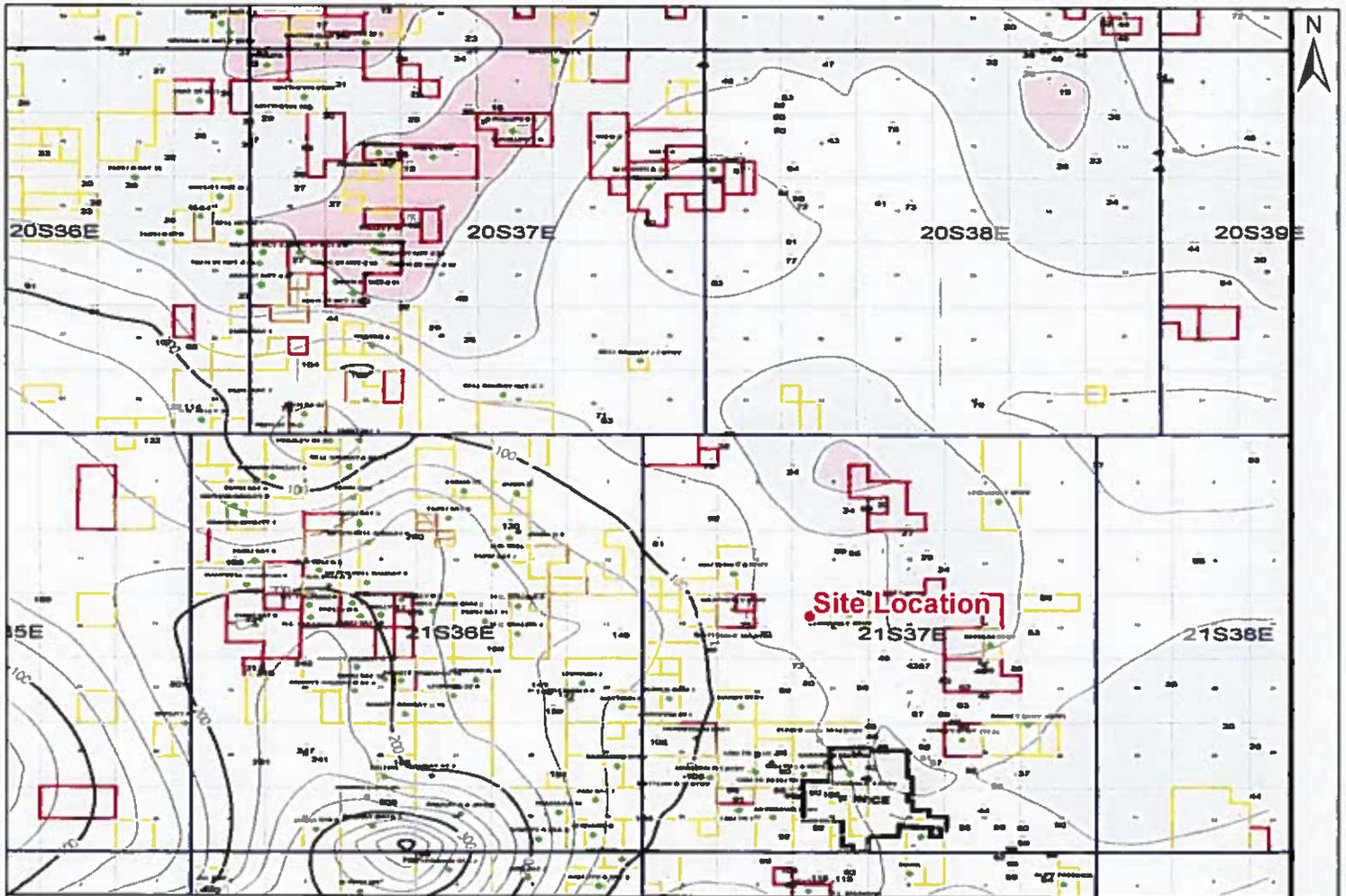
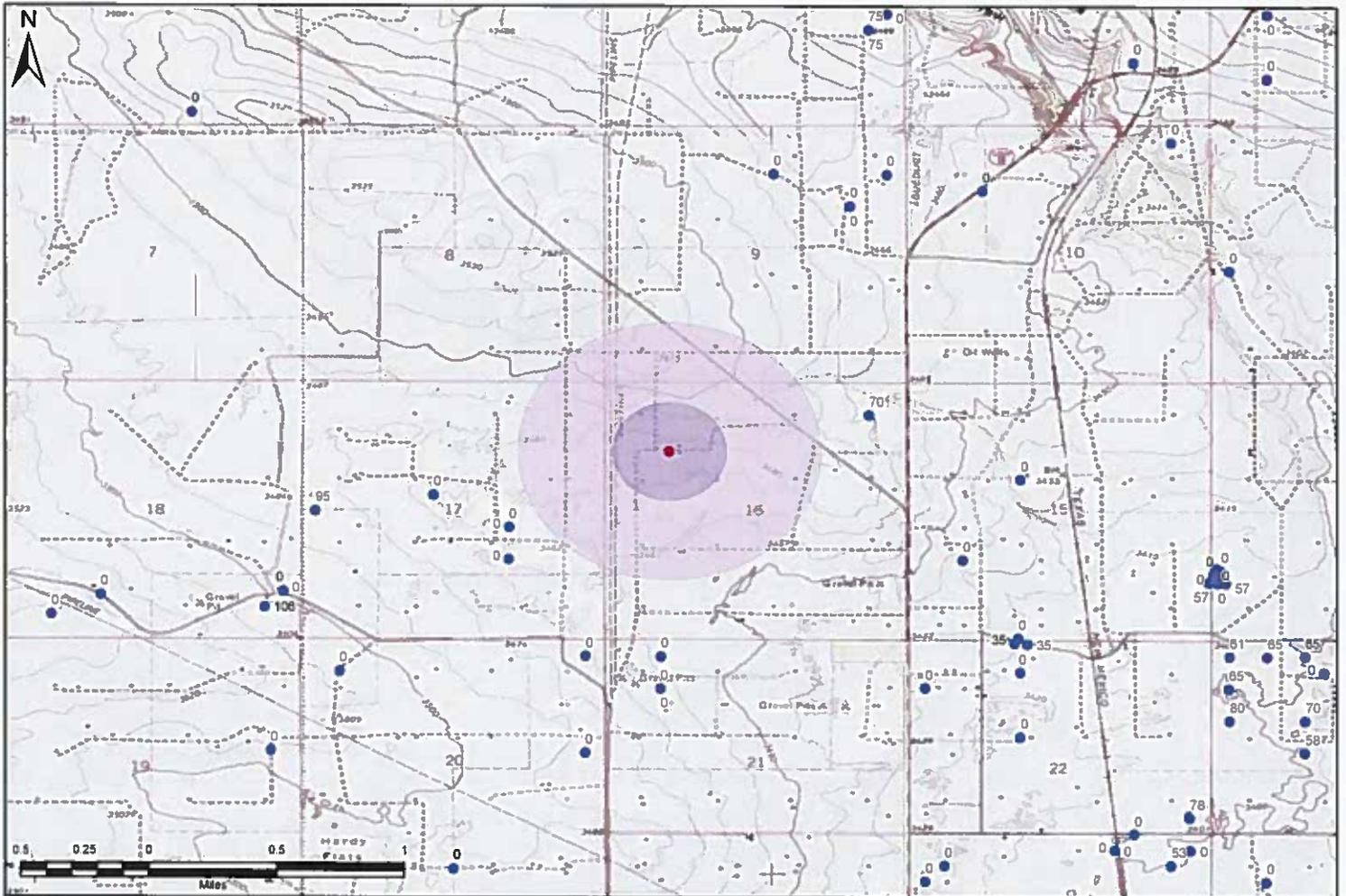


Figure 4
 Depth-to-Groundwater Trend Map
 Apache Corporation
 State C Tract 12 Battery
 Lea County, New Mexico
 NMOCD Reference #: 1RP-903



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

Drawn By: BJA	Checked By: JEH
August 23, 2019	Scale: 1" = 2mi



Legend

	1,000-ft Radius		Site Location
	0.5-mi Radius		NMOSE Depth to Water
	FEMA 100-Year Flood Zone		
	Municipal Boundary		

Figure 5
Vicinity & Wellhead Protection Area Map
Apache Corporation
State C Tract 12 Battery
Lea County, New Mexico
NMOCD Reference #: 1RP-903

 TRINITY OILFIELD SERVICES	Trinity Oilfield Services & Rentals, LLC P.O. Box 2587 Hobbs, NM 88241	
	Drawn By: BJA August 23, 2019	Checked By: JEH Scale: 1" = 0.5mi



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 671688.56

Northing (Y): 3595362.44

Radius: 804.67
(0.5 miles)



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00554	CP	LE		2	2	16	21S	37E		672744	3595610*	1084	80	70	10

Average Depth to Water: **70 feet**

Minimum Depth: **70 feet**

Maximum Depth: **70 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 671688.56

Northing (Y): 3595362.44

Radius: 1610
(1 mile)

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Appendix C

Laboratory Analytical Reports

August 08, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: STATE C TRACT 12 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/02/19 15:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



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:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	STATE C TRACT 12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP - 1 SURFACE 32.439341 (H902661-01)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2019	ND	1.98	98.9	2.00	0.851		
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652		
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429		
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117		
Total BTEX	<0.300	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/07/2019	ND	416	104	400	3.92		

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	08/05/2019	ND	188	94.0	200	0.506		
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND						

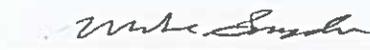
Surrogate: 1-Chlorooctane 91.3 % 41-142

Surrogate: 1-Chlorooctadecane 84.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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



 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:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	STATE C TRACT 12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP - 1 @ 1' - 103.174321 (H902661-02)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2019	ND	1.98	98.9	2.00	0.851		
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652		
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429		
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117		
Total BTEX	<0.300	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/07/2019	ND	416	104	400	3.92		

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	08/05/2019	ND	188	94.0	200	0.506		
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 84.6 % 41-142

Surrogate: 1-Chlorooctadecane 78.2 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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 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: 08/02/2019
 Reported: 08/08/2019
 Project Name: STATE C TRACT 12 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/02/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 1 @ 2' (H902661-03)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2019	ND	1.98	98.9	2.00	0.851		
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652		
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429		
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117		
Total BTEX	<0.300	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/07/2019	ND	416	104	400	3.92		

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	08/05/2019	ND	188	94.0	200	0.506		
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND						

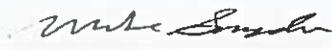
Surrogate: 1-Chlorooctane 96.8 % 41-142

Surrogate: 1-Chlorooctadecane 89.0 % 37.6-147

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* = Accredited Analyte

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 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:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	STATE C TRACT 12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP - 2 SURFACE 32.482468 (H902661-04)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2019	ND	1.98	98.9	2.00	0.851		
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652		
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429		
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117		
Total BTEX	<0.300	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/07/2019	ND	416	104	400	3.92		

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	08/05/2019	ND	188	94.0	200	0.506		
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 94.4 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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 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:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	STATE C TRACT 12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP - 2 @ 1' - 103.172615 (H902661-05)

BTEX 80218		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2019	ND	1.98	98.9	2.00	0.851		
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652		
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429		
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117		
Total BTEX	<0.300	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/07/2019	ND	416	104	400	3.92		

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	08/05/2019	ND	188	94.0	200	0.506		
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 87.7 % 41-142

Surrogate: 1-Chlorooctadecane 80.8 % 37.6-147

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 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: 08/02/2019
 Reported: 08/08/2019
 Project Name: STATE C TRACT 12 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/02/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 2 @ 2' (H902661-06)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2019	ND	1.98	98.9	2.00	0.851		
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652		
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429		
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117		
Total BTEX	<0.300	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/07/2019	ND	416	104	400	3.92		

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	08/05/2019	ND	188	94.0	200	0.506		
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND						

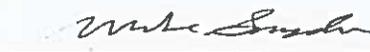
Surrogate: 1-Chlorooctane 98.2 % 41-142

Surrogate: 1-Chlorooctadecane 90.6 % 37.6-147

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 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:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	STATE C TRACT 12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP - 3 SURFACE 32.441273 (H902661-07)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2019	ND	1.98	98.9	2.00	0.851		
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652		
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429		
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117		
Total BTEX	<0.300	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/07/2019	ND	416	104	400	3.92		

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	08/05/2019	ND	188	94.0	200	0.506		
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147

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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:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	STATE C TRACT 12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP - 3 @ 1' - 103.175903 (H902661-08)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2019	ND	1.98	98.9	2.00	0.851		
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652		
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429		
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117		
Total BTEX	<0.300	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/07/2019	ND	416	104	400	3.92		

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	08/05/2019	ND	188	94.0	200	0.506		
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 92.7 % 41-142

Surrogate: 1-Chlorooctadecane 83.8 % 37.6-147

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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: 08/02/2019
 Reported: 08/08/2019
 Project Name: STATE C TRACT 12 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/02/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 3 @ 2' (H902661-09)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2019	ND	1.98	98.9	2.00	0.851		
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652		
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429		
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117		
Total BTEX	<0.300	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 99.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/07/2019	ND	400	100	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	08/05/2019	ND	188	94.0	200	0.506		
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 97.3 % 41-142

Surrogate: 1-Chlorooctadecane 92.0 % 37.6-147

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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Apache Corporation</u>				BILL TO				ANALYSIS REQUEST																			
Project Manager: <u>Bruce Baker</u>				P.O. #:																							
Address:				Company:																							
City: State: Zip:				Attn:																							
Phone #: Fax #:				Address:																							
Project #: Project Owner:				City:																							
Project Name: <u>State C Tract 12 Battery</u>				State: Zip:																							
Project Location: <u>State C Tract 12 Battery</u>				Phone #:																							
Sampler Name: <u>Daniel Rasker</u>				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	GURAB OR (COMP) CONTAINERS	MATRIX																	PRESERV.		SAMPLING		CL	DTEX	LEA: TPH	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER:	DATE	TIME														
<u>H9021del</u>																											
	<u>1 SP-1 surface 32-439 341</u>																										
	<u>2 SP-1 @ 1 -103-179321</u>																										
	<u>3 SP-1 @ 2</u>																										
	<u>4 SP-2 surface 32-462468</u>																										
	<u>5 SP-2 @ 1 -103-172115</u>																										
	<u>6 SP-2 @ 2</u>																										
	<u>7 SP-3 surface 32-441273</u>																										
	<u>8 SP-3 @ 1 -103-175903</u>																										
	<u>9 SP-3 @ 2</u>																										

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Relinquished By: <u>Daniel Rasker</u>	Date: <u>8-2-19</u>	Received By: <u>Juanita Oldat</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: <u>12:50</u>	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
Relinquished By:	Time:	Received By:		
Delivered By: (Circle One) <u>1.3e</u>	<u>1197</u>	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: <u>Corrected 31.7e</u>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>TR</u>	