

# **Closure Report**

March 25, 2019

*Re: Crow Federal Mega Battery Case # 2RP-5032* 

*To:* Robert Hamlet Environmental Specialist-New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department 811 S. 1<sup>st</sup> Street Artesia, NM 88210

## **Background:**

On 10/21/2018 a release occurred due to the packing between the motor and C pump on the lact unit separated. An initial C-141 was sent to NMOCD and approved by NMOCD on 11/5/2018. The Crow Federal Mega Battery is located east of Loco Hills in unit letter B section 9 township 17S range 31E (GPS Coordinates: 32.85412 -103.87023 ). It is common knowledge that there is no groundwater in township 17S and range 31E. The village of Loco Hills water source is the double eagle water pipeline which source of water is on top of the Cap rock located east of the township and range. The closest geographic water course is Taylor Draw located 2 miles east and south of the release site.

The majority of the release was contained inside a lined facility except for approximately a barrel of fluid was sprayed outside the liner to the west. The standing fluid inside the lined containment was picked up with a vacuum truck. The stained area outside the containment area was hand shoveled down to 6 inches below surface. Once the hand excavation was complete bottom five point composite samples were collect not to exceed 200 square feet. Five point composite samples were collected on the north and south walls and grab samples were collected on the east and west walls. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All the laboratory results were below table 1 standards for releases that occur with depth to groundwater greater than 100 feet. The excavated material 12 yards was disposed of at an NMOCD approved facility.

Enclosed: Initial C-141, Maps, Sample Plan Diagram, Photos, and Laboratory Results

Submitted by;

Bruce . Baker

Environmental Technician larry.baker@apachecorp.com Cell# 432-631-6982 Off# 575-393-7106 District 1 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 NM Oil Conservation Div. Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Dist. II - Artesia Received Submit to appropriate OCD District office Oct. 31, 2018

Incident ID	NAB1830954484
District RP	2RP-5032
Facility ID	fAB1830953527
Application ID	pAB1830953763

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# **Release Notification**

# **Responsible Party**

Responsible Party	Apache Corporation	OGRID 873
Contact Name	Bruce Baker	Contact Telephone 432-631-6982
Contact email	larry.baker@apachecorp.com	Incident # (assigned by OCD) NAB1830954484
Contact mailing address 2350 W. Marland BLVD Hobbs, NM 88240		

## Location of Release Source

Latitude 32.85412		Longitude	-103.87023
	(NAD 83 in decimal deg	grees to 5 decimal p	laces)
Site Name Crow Federal Mega	Battery	Site Type Ba	ittery
	ĩ		

Site Name Crow Federal Mega Battery	Site Type Battery
Date Release Discovered 10/21/2019 10/21/2018	API# (if applicable)

Unit Letter	Section	Township	Range	County
В	9	17S	31E	Eddy

Surface Owner: State 🗹 Federal 🛄 Tribal 🗌 Private (Name) \_\_\_\_

# Nature and Volume of Release

Crude Oil	Volume Released (bbls) 121 barrels	Volume Recovered (bbls) 120 barrels
Produced Water	Volume Released (bbls)	Volume Recovered (bbis)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No Unknown
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
use of Release The	packing between the motor and C pump	on the lact unit seperated.

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Incident ID	NAB1830954484
District RP	2RP-5032
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sponsible party consider this a major release? 25 barrels of oil.	Was this a major release as defined by 19.15.29.7(A) NMAC?If YES, for what reason(s) doe The release was greated
	Ves 🗆 No
o whom? When and by what means (phone, email, etc)? nd Shelly Tucker (BLM) via email on 10/22/2018 at	
nd Shelly Tucker (BLM) via email on 10/	Bruce Baker notified Jim Griswold, Maria Pr 12:19 p.m.

## **Initial Response**

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

The source of the release has been stopped.

If The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Signature: Bruce Baber

Date: 10/31/2018

email: larry.baker@apachecorp.com

Telephone: 432-631-6982

Title: Environmental Technician SR

OCD Only	
Received by: Amatan Jotamante	Date: 11/05/2018

## **Volume Calculation**

All the oil inside the lined facility was recovered 120 barrels. The pasture area was an area of 10 X 2 X.2=4 cubic feet X 7.48 gallon per cubic foot=29.92 gallons/42 gallons in a barrel = 0.7 barrels.

From:	Pruett, Maria, EMNRD
To:	Bustamante, Amalia, EMNRD
Subject:	FW: Crow Federal Mega Battery reportable spill notification
Date:	Monday, November 5, 2018 12:31:30 PM

Here is the initial notification.

From: Baker, Larry <Larry.Baker@apachecorp.com>
Sent: Monday, October 22, 2018 12:19 PM
To: Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Pruett, Maria, EMNRD
<Maria.Pruett@state.nm.us>; 'stucker@blm.gov' <stucker@blm.gov>
Subject: [EXT] Crow Federal Mega Battery reportable spill notification

All,

Yesterday 10/21/2018 a release occurred due to packing separated between the motor and C Pump on the lact unit resulting in the loss of 121 barrels of oil with 120 barrels recovered. The release occurred at the Crow Federal Battery (GPS: 32.85412 -103.87023) is located in unit letter B section 9 township 17S range 31E. The majority of the release was contained in the lined secondary containment except due to wind blew 1 barrel into the pasture west of the facility. The nearest well is the Cedar Lake Federal CA 901 (API # 30-015-42364). Please let me know if you have any questions or wish to discuss. Thanks and have a good day.

#### **BRUCE BAKER**

ENVIRONMENTAL TECHNICIAN SR direct 575-393-7106 ext 1523 | Cell 432-631-6982

APACHE CORPORATION 2350 W. MARLAND BLVD HOBBS , NM 88240 ApacheCorp.com | Linkedin | Facebook | Twitter | StockTwits | YouTube State of New Mexico Oil Conservation Division

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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?	NowE (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 Yo
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 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 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.

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Page 4	Oil Conservation Divisio	'n	District RP	
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regulations all operators are a public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: <u>Bru</u> Signature: <u>Bruce</u>		notifications and perform he OCD does not relieve threat to groundwater, su r of responsibility for cor Title: <u>Ewv</u> Date: <u>3~25</u>	n corrective actions for rele the operator of liability shu irface water, human health npliance with any other fe irrowmewfal	eases which may endanger ould their operations have or the environment. In deral, state, or local laws Tech SR
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 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: <u>Environmental Tech SR.</u>
Signature: Bruce Baher	Date: <u>8/25/19</u>
email: larry. baker@apachecorp.com	Telephone: 432 - 631 - 6982
U U	
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:





Sample Pt.         Cloride         Benzene         Toluene         Ethybenzene         Total Xylenes         Total BTEX         GRO         DRO         EXT D           COM 1         32         <0.050         <0.050         <0.050         <0.050         <0.150         <10.0         <10.0         <10.1         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0         <10.0 <t< th=""><th></th><th></th><th></th><th><b>Crow Federal</b></th><th>ederal Meg</th><th>Mega Battery Sample Data</th><th>imple Data</th><th></th><th></th><th></th></t<>				<b>Crow Federal</b>	ederal Meg	Mega Battery Sample Data	imple Data			
32         <0.050	Sample Pt.	Cloride	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
16         <0.050	COM 1	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.1	<10.0
32         <0.050	COM 2	16	<0.050	<0:050	0.315	0.898	1.21	25.5	375	61.6
16         <0.050	COMP 3 @ 6"	32	<0.050	<0:050	0.292	0.748	1.04	20.9	255	21
32         <0.050	E Wall	16	<0.050	<0:050	<0.050	<0.150	<0.300	<10.0	121	27
32         <0.050	N Wall	32	<0.050	<0:050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
32 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 <10.0 <10.0	S Wall	32	<0.050	<0:050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
	W Wall	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0



Photo of Liner



Photo of excavation



Photo of excavation



December 21, 2018

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

**RE: CROW FEDERAL MEGA BATTERY** 

Enclosed are the results of analyses for samples received by the laboratory on 12/18/18 14:15.

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 <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.

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,

Celeg D. Keine

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:	12/18/2018	Sampling Date:	12/18/2018
Reported:	12/21/2018	Sampling Type:	Soil
Project Name:	CROW FEDERAL MEGA BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: COM 1 (H803683-01)

BTEX 80218	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	12/20/2018	ND	1.86	93.1	2.00	3.52	
Toluene*	<0.050	0.050	12/20/2018	ND	1.92	96.2	2.00	3.16	
Ethylbenzene*	<0.050	0.050	12/20/2018	ND	1.91	95.5	2.00	3.35	
Total Xylenes*	<0.150	0.150	12/20/2018	ND	5.72	95.3	6.00	3.18	
Total BTEX	<0.300	0.300	12/20/2018	ND					

Surrogate 4-Bromofluorobenzene (PIE 97.1 % 73.3-129

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/19/2018	ND	416	104	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	12/20/2018	ND	198	99.2	200	1.78	
DRO >C10-C28*	30.1	10.0	12/20/2018	ND	196	97.9	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	12/20/2018	ND					
Surrogate: 1-Chlorooctane	93.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.5	% 37_6-14	7						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Luabidity and Damages. Cardinal's bability and client's eviduoive remedy for any dawn ansing, whether based in contract or tort, shall be limited to the amount paul by client for analyses. All daims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in whong and received by Cardinal within thirty (30) days after simplebon of the applicable service. In no event shall Cardinal be liable for inodestal or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by dient, its subsidianes, affäates 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 otherwse, Results relate only to the samples identified above. This report shall not be reproduced except in full with writen approval of Cardinal Laborationes.

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

Received:	12/18/2018	Sampling Date:	12/18/2018
Reported:	12/21/2018	Sampling Type:	Soil
Project Name:	CROW FEDERAL MEGA BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: COM 2 (H803683-02)

BTEX \$021B	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	12/20/2018	ND	1.86	93.1	2.00	3.52	
Toluene*	<0.050	0.050	12/20/2018	ND	1.92	96.2	2.00	3.16	
Ethylbenzene*	0.315	0.050	12/20/2018	ND	1.91	95.5	2.00	3.35	
Total Xylenes*	0.898	0.150	12/20/2018	ND	5.72	95.3	6.00	3.18	
Total BTEX	1.21	0.300	12/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE 109 % 73.3-129

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/19/2018	ND	432	108	400	3.64	
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*	25.5	10.0	12/20/2018	ND	198	99.2	200	1.78	
DR0 >C10-C28*	375	10.0	12/20/2018	ND	196	97.9	200	6.28	
EXT DRO >C28-C36	61.6	10.0	12/20/2018	ND					
Surrogate: 1-Chlorooctane	96.0 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	105 9	37.6-14	7						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Labelity and Damages. Candinal's bablity and client's eviduove remedy for any claim anising, whether based in contract or tort, shall be simpled to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscener shall be deemed waved unless made in writing and received by claims, including those for incidental damages, including, whout limitation, business interruptions, loss of use, or loss of profits incurred by cleint, it's subscalanes, affiliates or successors anang out of or indiated to the performance of the services hereunder by Cardinal, regardless of whether such dam is based upon any of the advers statef hasbens or otherwise. Results related only to the samples claimable clarinal, and including the samples claimed advection.

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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.
2	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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#### \*=Accredited Analyte

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Colleg Zatriana -

Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

$\frac{\text{Address:}}{\text{City:} \mu_0 b h s} \qquad \text{State:} (\lambda_1 M - \text{Zip:} S + \lambda_2 M - \lambda_1 \text{In:})$	Project Owner:	on: (13w Federa ( Mega Battery	Joe Quesala Fax #:	MATRIX PRESERV SAMPLING	1 1 1 1 12-13-13					Liability and Damages. Cardina's tability and client's exclusive remark for any m incluting those for negligence and any other stace whetsever that be de- ent shall Cardinate be table for incidental or consequencia damages, including we search auffang out of or related to the performance of services betwender by Care	TT - Spin
	Project Owner:	State:	(10 Federa ( Mega Battery Phone #:	n: (13 Felera (Mega Battery Phone #: Sor Duesala Fax #:	Sample I.D.     Number of the second se	Sample I.D. - (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL ICE / COOL IC	Sample I.D. Sample I.D. Sample I.D. Containers GROUNDWATER MATRIX State: Zip: Phone #: Phone #: P	Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. State: Zip: Fax #: State: Zip: Fax #: State: Zip: Fax #: State: Zip: State:	Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. State: Zip: Fax #: GROUNDWATER MATRIX Fax #: Fax #: State: Zip: Fax #: Fax #: State: Zip: Fax #: Fax #: F	Sample I.D.     Nature     State:     Zip:       Groups, Cadeta State     Image: Anticipation of the state of th	Image: State     Zip:       Sample I.D.     State:       Sample I.D.     State:       Sample I.D.     Sample I.D.       Sample I.D.     Sampl
Fax #:     Address:       Project Owner:     City:       Project Owner:     State:       State:     Zip:       Sor     Mega       Batter     Phone #:       Sor     Uescolo       E     MATRIX	n: (132) Federa (Mega Battery Phone #: Sor Quescula Fax #: E: MATRIX PRESERV SAMPLING	E MATRIX PRESERV SAMPLING	P. MATRIX PRESERV, SAMPLING	2		1 1 1 1.7.18-48	2 1 1 1 1 2-18-15 1 2-18-15		L L L L L L L L L L L L L L L L L L L	L       L	Pricebio
Fax #:     Address:       Project Owner:     City:       Sample I.D.     State:       Subscription     State:       Data     Packad       Project Owner:     City:       Sample I.D.     State:       Sample I.D.     State:       Sample I.D.     Packad       Packad     Pack	R. (But Feldera (Mega, Batter)     Phone #:       Tax #:     Fax #:       Sample I.D.     Resterved       Sample I.D.     (G)RAB OR (C)OMP.       (G)RAB OR (C)OMP.     PESSERV       (G)RAB OR (C)OMP.     (G)RAB OR (C)OMP.       (G)RAB OR (C)OMP.     (G)RAB OR (C)OMP. <t< td=""><td>Time:     Time:     Time:</td><td>TIL DYES DINO</td><td><math display="block">F_{11} = \frac{1}{1000000} = \frac{1}{10000000000000000000000000000000000</math></td><td>TI Ves DNO</td><td>TI Ves DNO</td><td>LI Ves DNO</td><td>E Ves DNO</td><td>Image: State State</td><td>Date Deceived By:</td><td></td></t<>	Time:     Time:     Time:	TIL DYES DINO	$F_{11} = \frac{1}{1000000} = \frac{1}{10000000000000000000000000000000000$	TI Ves DNO	TI Ves DNO	LI Ves DNO	E Ves DNO	Image: State	Date Deceived By:	
Fax #: Address: Project Owner: City: n: (100 Felera ( Mega Batter Phone #:	" (100 Federa ( Mega Battery		Sor Quesala	MP. MATRIX PRESERV					PLEASE NOTE: LibBity and Damage. Cardina's tability and lenn's workshoe nonvolving weather based in contract or torr, stalls be linued to the amount pa analyses. At claims including those for negligence and any other cause whatsever shall be deemed waived unless mode in writing and received by Cardinal within 30 days and services. In ne event shall Cardinal be table for indicated to cause whatsever shall be deemed waived unless mode in writing and received by Cardinal within 30 days and services. In ne event shall Cardinal be table for indicated and any other cause at language. Including without initiation businees interrupters, tees of use, or bes of ports incurred by affilteres or successors stalling out of or related to the performance of services betwender, by Cardinal, togentiess of whether such claim is based upon any of the piece stated to	ISURAL INTERVISED IN THE ISLAND	Date dec

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March 14, 2019

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

**RE: CROW FEDERAL MEGA BATTERY** 

Enclosed are the results of analyses for samples received by the laboratory on 03/13/19 15:05.

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">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes are denoted by <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes are denoted by <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes are denoted analytes are denoted by <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes are denoted by <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes are denoted by <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/

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.

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,

Celeg D. Keine

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:	03/13/2019	Sampling Date:	03/12/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	CROW FEDERAL MEGA BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: COMP 3 @ 6" (H900999-01)

**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 03/14/2019 ND 2.03 101 2.00 0.195 Toluene\* < 0.050 0.050 93.1 0.372 03/14/2019 ND 1.86 2.00 Ethylbenzene\* 0.292 0.050 03/14/2019 ND 1.96 98.1 2.00 0.568 **Total Xylenes\*** 0.748 0.150 03/14/2019 ND 6.05 101 6.00 0.327 **Total BTEX** 1.04 0.300 03/14/2019 ND

Surrogate: 4-Bromofluorobenzene (PIE 100 % 73.3-129

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/14/2019	ND	432	108	400	3.77	
TPH 8015M	015M mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	20.9	10.0	03/14/2019	ND	197	98.5	200	8.09	
DRO >C10-C28*	255	10.0	03/14/2019	ND	176	88.2	200	3.43	
EXT DRO >C28-C36	21.0	10.0	03/14/2019	ND					
Surrogate: 1-Chlorooctane	1119	6 41-142	2						
Surrogate: 1-Chlorooctadecane	1169	6 37.6-14	7						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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

Received:	03/13/2019	Sampling Date:	03/12/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	CROW FEDERAL MEGA BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

# Sample ID: E WALL (GRAB) (H900999-02)

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	03/14/2019	ND	2.03	101	2.00	0.195	
Toluene*	<0.050	0.050	03/14/2019	ND	1.86	93.1	2.00	0.372	
Ethylbenzene*	<0.050	0.050	03/14/2019	ND	1.96	98.1	2.00	0.568	
Total Xylenes*	<0.150	0.150	03/14/2019	ND	6.05	101	6.00	0.327	
Total BTEX	<0.300	0.300	03/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE 91.5 % 73.3-129

Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/14/2019	ND	416	104	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	03/14/2019	ND	197	98.5	200	8.09	
DRO >C10-C28*	121	10.0	03/14/2019	ND	176	88.2	200	3.43	
EXT DRO >C28-C36	27.0	10.0	03/14/2019	ND					
Surrogate: 1-Chlorooctane	103 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	112 %	6 37.6-14	7						

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#### \*=Accredited Analyte

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

Received:	03/13/2019	Sampling Date:	03/12/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	CROW FEDERAL MEGA BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

# Sample ID: N WALL (GRAB) (H900999-03)

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	03/14/2019	ND	2.03	101	2.00	0.195	
Toluene*	<0.050	0.050	03/14/2019	ND	1.86	93.1	2.00	0.372	
Ethylbenzene*	<0.050	0.050	03/14/2019	ND	1.96	98.1	2.00	0.568	
Total Xylenes*	<0.150	0.150	03/14/2019	ND	6.05	101	6.00	0.327	
Total BTEX	<0.300	0.300	03/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE 95.3 % 73.3-129

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/14/2019	ND	416	104	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	03/14/2019	ND	197	98.5	200	8.09	
DRO >C10-C28*	<10.0	10.0	03/14/2019	ND	176	88.2	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/14/2019	ND					
Surrogate: 1-Chlorooctane	106 9	6 41-142	?						
Surrogate: 1-Chlorooctadecane	110 9	37.6-14	17						

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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:	03/13/2019	Sampling Date:	03/12/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	CROW FEDERAL MEGA BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

# Sample ID: S WALL (GRAB) (H900999-04)

BTEX 8021B	mg,	/ Kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2019	ND	2.03	101	2.00	0.195	
Toluene*	<0.050	0.050	03/14/2019	ND	1.86	93.1	2.00	0.372	
Ethylbenzene*	<0.050	0.050	03/14/2019	ND	1.96	98.1	2.00	0.568	
Total Xylenes*	<0.150	0.150	03/14/2019	ND	6.05	101	6.00	0.327	
Total BTEX	<0.300	0.300	03/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 94.1 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/14/2019	ND	416	104	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	03/14/2019	ND	197	98.5	200	8.09	
DRO >C10-C28*	<10.0	10.0	03/14/2019	ND	176	88.2	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/14/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	?						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

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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:	03/13/2019	Sampling Date:	03/12/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	CROW FEDERAL MEGA BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

# Sample ID: W WALL (GRAB) (H900999-05)

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	03/14/2019	ND	2.03	101	2.00	0.195	
Toluene*	<0.050	0.050	03/14/2019	ND	1.86	93.1	2.00	0.372	
Ethylbenzene*	<0.050	0.050	03/14/2019	ND	1.96	98.1	2.00	0.568	
Total Xylenes*	<0.150	0.150	03/14/2019	ND	6.05	101	6.00	0.327	
Total BTEX	<0.300	0.300	03/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 94.6 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/14/2019	ND	416	104	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 10.0		ND	197	98.5	200	8.09	
DRO >C10-C28*	<10.0	10.0	03/14/2019	ND	176	88.2	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	03/14/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142	1						
Surrogate: 1-Chlorooctadecane 109 S		% 37.6-14	7						

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#### \*=Accredited Analyte

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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.
2	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

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Delivered By: (Circle One) Sampler - UPS - Bus - Other: $3.1^{\circ}$ / #97	Time:	Relinquished By: Date: Rece	s for negligence and any other cause be liable for incidential or consequents of or related to the performance of ser Dj	PLEASE NOTE: Liabolity and Daminose. Candinal's Eablity and clearly avoidably and resolution on		S ( dans) 1 an in C	Swall (Crrab)		Euch (Croup) (S	Comp 3 @6"	>(G)RA	Lab I.D. Sample I.D.	FOR LUB USE DALY	" be. I resulter the.	Project Location: Locar federal Mega	Project Name:	Project #: Project Owner:	Fax #:	city: Hobos State: N. X. Zip: SS24		Project Manager: Bruck Ball	Company Name: Applicates	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		Laboratories	CARDINAL
Sample Condition CHECKED BY: Cool Intact Cool Intact Cool Intact Cool Intact Cool Intact Na No No No		Jaenson P	tor medipence and any other cause virationers and any other waked unless in writing and readinal within 50 days after computed on the applicable so liable for Indexnal or consequential damages, including without limitation, business interruptions, lass of use, or less of profits houring by days after computed on the applicable for related to the performance of services beneunder by Candhal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.			1 1 3/12 9.21 7	r	21:5 018 11 1		1 1 1 3/12 5 39		NDWATER EWATER GE R : GASE GOOL	WATRIX PRESERV SAMPLING	Fa	Buttery Phone #:	State: Zip:	City:			Company:	P.O. #:			<u>CHAIN-C</u>	N	<b>[</b> -
result	Eme-1	(Here and Add Fax #: (Here) (Rushel)	picable 1: D Yes D No								E y											ANALYSIS REQUEST		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST		

+ Cardinal ronnet areant varhal channae Dlaaca for written channes to 15751 302.0306

Page 8 of 8

On March 13. 2019 I Jose L. Quesade went to Apuch Grow Federal Maya battery to get soil Composits of North and South wall and brok East and wast wall, When I filled out hab paper I marked the wrong infor on N. + S. wall, put Grub insteal of Composite Jose I Dat