



303 Veterans Airpark Lane Midland, TX 79705

## **Remediation Plan Resubmittal**

April 7, 2021

Re: WP Byrd Tank Battery  
Case nRM2010837524

### **Background:**

On 4/8/2020 a release occurred due a connection on an oil tank failed. The release (GPS: 32.591340, -103.307397) is located south of Monument, New Mexico in unit letters B&G section 12 township 20S range 36E. A groundwater survey was conducted utilizing USGS wells of record. The nearest well of record suggest the groundwater depth below the release to be 33 feet below ground surface. A remediation plan was submitted to OCD. The plan was rejected by OCD due to the release needed further delineation and to elaborate on physical agitation in regards to the deeper contamination of soil.

On 2/4/2021 a hand auger was utilized to delineate at SP 2 and SP 3. Samples were collected in one foot intervals to a depth of 4 feet. Horizontal 5 point composite surface samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results were above table one standards for hydrocarbons at SP 2 and SP 3. On 2/22/2021 SP 2 and SP 3 were further delineated to a depth of 6 feet. All samples collected were submitted to a commercial laboratory for analysis of TPH and BTEX.

Apache Corporation proposes that the in-situ remediation proposed is the best course of action in an attempt to treat the contamination to the best extent possible due to the close proximity to infrastructure. The soil inside the berm will be tilled to loosen the top two feet and the product will be applied see the attached plan for further details of the process. The remediation will be completed within 90 days of OCD approval of the plan.

Enclosed: C-141, Updated Sample Map, Updated Laboratory Data, and Original Remediation Plan

Submitted by;

*Bruce Baker*

**Environmental Technician**  
larry.baker@apachecorp.com  
**Cell# 432-631-6982**

Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Larry Baker Title: Environmental Tech SR.  
Signature: Larry Baker Date: 4/7/2021  
email: larry.baker@apachecorp.com Telephone: 432-631-6982

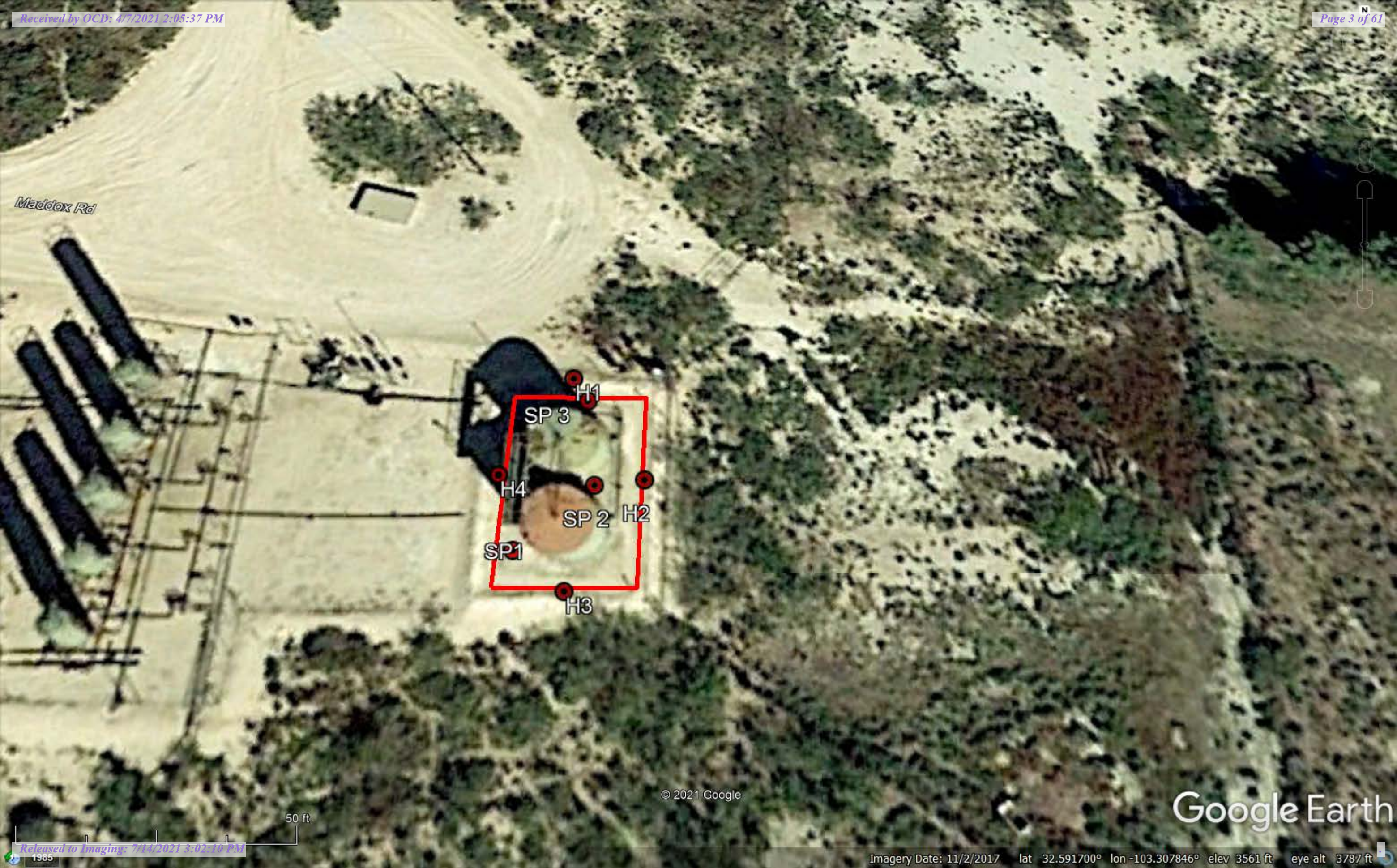
**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_





Maddox Rd

H1  
SP 3  
H4  
SP 2  
H2  
SP 1  
H3

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Google Earth

Released to Imaging: 7/14/2021 3:02:10 PM

Imagery Date: 11/2/2017 lat 32.591700° lon -103.307846° elev 3561 ft eye alt 3787 ft



Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
7/10/2020	SP1	S	<16.0	<0.200	0.573	<0.200	8.170	8.74	707	24600	5340	32.591293 -103.307384
7/10/2020	SP1	1'		<0.050	2.29	<0.500	14.70	17.00	717	1910	105	
7/10/2020	SP1	2'		<0.200	0.301	<0.200	2.990	3.29	96.9	616	53.1	
7/16/2020	SP1	3'		<0.050	<0.050	<0.050	0.381	0.381	41.5	791	143	
7/16/2020	SP1	4'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
2/4/2021	SP2	S	32	<0.050	<0.050	0.218	0.267	0.485	<50.0	12200	4030	32.591330 -103.307351
2/4/2021	SP2	1'	32	0.179	2.6	<0.050	19.600	22.4	711	4680	1050	
2/4/2021	SP2	2'	<16.0	<0.050	<0.050	0.08	<0.150	<0.300	<10.0	31.7	39.2	
2/4/2021	SP2	3'	<16.0	<0.050	<0.050	0.078	<0.150	<0.300	<10.0	83.2	84.6	
2/4/2021	SP2	4'	16	<0.050	<0.050	0.307	0.342	0.649	60.1	1730	587	
2/22/2021	SP2	5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.2	13	
2/22/2021	SP2	6'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	32.4	<10.0	
2/4/2021	SP3	S	<16.0	<0.050	<0.050	<0.050	0.627	0.627	75.6	11300	3020	32.591370 -103.307340
2/4/2021	SP3	1'	16	<0.050	0.381	2.24	7.980	10.6	697	6890	1580	
2/4/2021	SP3	2'	<16.0	<0.050	0.331	1.81	6.940	9.9	293	2630	641	
2/4/2021	SP3	3'	<16.0	<0.050	<0.050	0.167	0.658	0.825	37.5	781	217	
2/4/2021	SP3	4'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	10.6	451	112	
2/22/2021	SP3	5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	281	60.5	
2/22/2021	SP3	6'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.9	<10.0	
2/4/2021	HC1	S	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.3	<10.0	32.591404 -103.307351
2/4/2021	HC2	S	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.591336 -103.307300
2/4/2021	HC3	S	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.591269 -103.307349
2/4/2021	HC4	S	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.591339 -103.307398



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

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February 08, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD

Enclosed are the results of analyses for samples received by the laboratory on 02/04/21 16:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/04/2021  
 Reported: 02/08/2021  
 Project Name: WP BYRD  
 Project Number: WP BIRD #1  
 Project Location: NONE GIVEN

Sampling Date: 02/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ SURFACE (H210292-01)**

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.13	107	2.00	0.822	
Toluene*	<0.050	0.050	02/05/2021	ND	2.09	104	2.00	1.10	
Ethylbenzene*	<b>0.218</b>	0.050	02/05/2021	ND	2.03	102	2.00	1.55	GC-NC1
<b>Total Xylenes*</b>	<b>0.267</b>	0.150	02/05/2021	ND	5.95	99.2	6.00	1.52	GC-NC1
<b>Total BTEX</b>	<b>0.485</b>	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 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
<b>Chloride</b>	<b>32.0</b>	16.0	02/08/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	02/05/2021	ND	216	108	200	6.41	
<b>DRO &gt;C10-C28*</b>	<b>12200</b>	50.0	02/05/2021	ND	231	116	200	3.31	
<b>EXT DRO &gt;C28-C36</b>	<b>4030</b>	50.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 296 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/04/2021  
 Reported: 02/08/2021  
 Project Name: WP BYRD  
 Project Number: WP BIRD #1  
 Project Location: NONE GIVEN

Sampling Date: 02/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H210292-02)**

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.179</b>	0.050	02/05/2021	ND	2.13	107	2.00	0.822	
<b>Toluene*</b>	<b>2.60</b>	0.050	02/05/2021	ND	2.09	104	2.00	1.10	GC-NC1
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.03	102	2.00	1.55	
<b>Total Xylenes*</b>	<b>19.6</b>	0.150	02/05/2021	ND	5.95	99.2	6.00	1.52	GC-NC1
<b>Total BTX</b>	<b>22.4</b>	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 549 % 73.3-129

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	02/08/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>711</b>	10.0	02/05/2021	ND	216	108	200	6.41	
<b>DRO &gt;C10-C28*</b>	<b>4680</b>	10.0	02/05/2021	ND	231	116	200	3.31	
<b>EXT DRO &gt;C28-C36</b>	<b>1050</b>	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 136 % 44.3-144

Surrogate: 1-Chlorooctadecane 190 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/04/2021  
 Reported: 02/08/2021  
 Project Name: WP BYRD  
 Project Number: WP BIRD #1  
 Project Location: NONE GIVEN

Sampling Date: 02/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 2' (H210292-03)**

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	02/05/2021	ND	2.13	107	2.00	0.822	
Toluene*	<0.050	0.050	02/05/2021	ND	2.09	104	2.00	1.10	
Ethylbenzene*	0.080	0.050	02/05/2021	ND	2.03	102	2.00	1.55	GC-NC1
Total Xylenes*	<0.150	0.150	02/05/2021	ND	5.95	99.2	6.00	1.52	
Total BTEx	<0.300	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/08/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	31.7	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	39.2	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 77.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.1 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 02/04/2021  
 Reported: 02/08/2021  
 Project Name: WP BYRD  
 Project Number: WP BIRD #1  
 Project Location: NONE GIVEN

Sampling Date: 02/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 3' (H210292-04)**

BTX 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	02/05/2021	ND	2.13	107	2.00	0.822	
Toluene*	<0.050	0.050	02/05/2021	ND	2.09	104	2.00	1.10	
Ethylbenzene*	0.078	0.050	02/05/2021	ND	2.03	102	2.00	1.55	GC-NC1
Total Xylenes*	<0.150	0.150	02/05/2021	ND	5.95	99.2	6.00	1.52	
Total BTX	<0.300	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	02/08/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	83.2	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	84.6	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 81.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.5 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/04/2021  
 Reported: 02/08/2021  
 Project Name: WP BYRD  
 Project Number: WP BIRD #1  
 Project Location: NONE GIVEN

Sampling Date: 02/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 4' (H210292-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.13	107	2.00	0.822	
Toluene*	<0.050	0.050	02/05/2021	ND	2.09	104	2.00	1.10	
Ethylbenzene*	0.307	0.050	02/05/2021	ND	2.03	102	2.00	1.55	GC-NC1
Total Xylenes*	0.342	0.150	02/05/2021	ND	5.95	99.2	6.00	1.52	GC-NC1
Total BTEX	0.649	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	02/08/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	60.1	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	1730	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	587	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 93.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/04/2021  
 Reported: 02/08/2021  
 Project Name: WP BYRD  
 Project Number: WP BIRD #1  
 Project Location: NONE GIVEN

Sampling Date: 02/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ SURFACE (H210292-06)**

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2021	ND	2.04	102	2.00	7.85	
Toluene*	<0.050	0.050	02/08/2021	ND	2.00	100	2.00	7.95	
Ethylbenzene*	<0.050	0.050	02/08/2021	ND	1.95	97.6	2.00	8.27	
<b>Total Xylenes*</b>	<b>0.627</b>	0.150	02/08/2021	ND	5.71	95.2	6.00	7.99	GC-NC1
<b>Total BTX</b>	<b>0.627</b>	0.300	02/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 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	02/08/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>75.6</b>	50.0	02/05/2021	ND	216	108	200	6.41	
<b>DRO &gt;C10-C28*</b>	<b>11300</b>	50.0	02/05/2021	ND	231	116	200	3.31	
<b>EXT DRO &gt;C28-C36</b>	<b>3020</b>	50.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 259 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 02/04/2021  
 Reported: 02/08/2021  
 Project Name: WP BYRD  
 Project Number: WP BIRD #1  
 Project Location: NONE GIVEN

Sampling Date: 02/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H210292-07)**

BTEX 8021B		mg/kg	Analyzed By: ms					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2021	ND	2.01	100	2.00	0.410	QM-07
Toluene*	<b>0.381</b>	0.050	02/06/2021	ND	2.02	101	2.00	0.480	GC-NC1
Ethylbenzene*	<b>2.24</b>	0.050	02/06/2021	ND	2.01	100	2.00	0.117	GC-NC1
Total Xylenes*	<b>7.98</b>	0.150	02/06/2021	ND	6.37	106	6.00	0.546	GC-NC1
Total BTEX	<b>10.6</b>	0.300	02/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 73.3-129

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>16.0</b>	16.0	02/08/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>697</b>	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	<b>6890</b>	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	<b>1580</b>	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 203 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/04/2021  
 Reported: 02/08/2021  
 Project Name: WP BYRD  
 Project Number: WP BIRD #1  
 Project Location: NONE GIVEN

Sampling Date: 02/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 2' (H210292-08)**

BTEx 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2021	ND	2.01	100	2.00	0.410	
Toluene*	0.331	0.050	02/06/2021	ND	2.02	101	2.00	0.480	GC-NC1
Ethylbenzene*	1.81	0.050	02/06/2021	ND	2.01	100	2.00	0.117	GC-NC1
Total Xylenes*	6.94	0.150	02/06/2021	ND	6.37	106	6.00	0.546	GC-NC1
Total BTEX	9.09	0.300	02/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 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	02/08/2021	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>293</b>	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	<b>2630</b>	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	<b>641</b>	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/04/2021  
 Reported: 02/08/2021  
 Project Name: WP BYRD  
 Project Number: WP BIRD #1  
 Project Location: NONE GIVEN

Sampling Date: 02/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3' (H210292-09)**

BTX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2021	ND	2.01	100	2.00	0.410	
Toluene*	<0.050	0.050	02/06/2021	ND	2.02	101	2.00	0.480	
Ethylbenzene*	0.167	0.050	02/06/2021	ND	2.01	100	2.00	0.117	GC-NC1
Total Xylenes*	0.658	0.150	02/06/2021	ND	6.37	106	6.00	0.546	GC-NC1
Total BTX	0.825	0.300	02/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 73.3-129

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/08/2021	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>37.5</b>	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	<b>781</b>	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	<b>217</b>	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 96.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 02/04/2021  
 Reported: 02/08/2021  
 Project Name: WP BYRD  
 Project Number: WP BIRD #1  
 Project Location: NONE GIVEN

Sampling Date: 02/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 4' (H210292-10)**

BTX 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	02/05/2021	ND	2.01	100	2.00	0.410	
Toluene*	<0.050	0.050	02/05/2021	ND	2.02	101	2.00	0.480	
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.117	
Total Xylenes*	<0.150	0.150	02/05/2021	ND	6.37	106	6.00	0.546	
Total BTX	<0.300	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/08/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.6	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	451	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	112	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 89.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.9 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/04/2021  
 Reported: 02/08/2021  
 Project Name: WP BYRD  
 Project Number: WP BIRD #1  
 Project Location: NONE GIVEN

Sampling Date: 02/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: H 1 (H210292-11)**

BTEx 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.410		
Toluene*	<0.050	0.050	02/05/2021	ND	2.02	101	2.00	0.480		
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.117		
Total Xylenes*	<0.150	0.150	02/05/2021	ND	6.37	106	6.00	0.546		
Total BTEx	<0.300	0.300	02/05/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/08/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	8.28	
<b>DRO &gt;C10-C28*</b>	<b>12.3</b>	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.0 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/04/2021  
 Reported: 02/08/2021  
 Project Name: WP BYRD  
 Project Number: WP BIRD #1  
 Project Location: NONE GIVEN

Sampling Date: 02/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: H 2 (H210292-12)**

BTEx 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.410		
Toluene*	<0.050	0.050	02/05/2021	ND	2.02	101	2.00	0.480		
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.117		
Total Xylenes*	<0.150	0.150	02/05/2021	ND	6.37	106	6.00	0.546		
Total BTEx	<0.300	0.300	02/05/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/08/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 93.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.9 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 02/04/2021  
 Reported: 02/08/2021  
 Project Name: WP BYRD  
 Project Number: WP BIRD #1  
 Project Location: NONE GIVEN

Sampling Date: 02/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: H 3 (H210292-13)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.410	
Toluene*	<0.050	0.050	02/05/2021	ND	2.02	101	2.00	0.480	
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.117	
Total Xylenes*	<0.150	0.150	02/05/2021	ND	6.37	106	6.00	0.546	
Total BTEx	<0.300	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/08/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 72.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 69.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/04/2021  
 Reported: 02/08/2021  
 Project Name: WP BYRD  
 Project Number: WP BIRD #1  
 Project Location: NONE GIVEN

Sampling Date: 02/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: H 4 (H210292-14)**

BTEx 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.410		
Toluene*	<0.050	0.050	02/05/2021	ND	2.02	101	2.00	0.480		
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.117		
Total Xylenes*	<0.150	0.150	02/05/2021	ND	6.37	106	6.00	0.546		
Total BTEx	<0.300	0.300	02/05/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/08/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 78.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.6 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

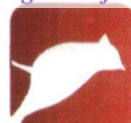
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Celey D. Keene, Lab Director/Quality Manager





**CARDINAL**  
Laboratories

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]





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

---

February 23, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD #1

Enclosed are the results of analyses for samples received by the laboratory on 02/22/21 11:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/22/2021  
 Reported: 02/23/2021  
 Project Name: WP BYRD #1  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 02/22/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 5' (H210413-01)**

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	02/22/2021	ND	1.91	95.6	2.00	1.35	
Toluene*	<0.050	0.050	02/22/2021	ND	1.96	97.9	2.00	1.18	
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.95	97.5	2.00	0.909	
Total Xylenes*	<0.150	0.150	02/22/2021	ND	6.03	100	6.00	0.442	
Total BTEX	<0.300	0.300	02/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	02/22/2021	ND	206	103	200	4.95	
<b>DRO &gt;C10-C28*</b>	<b>23.2</b>	10.0	02/22/2021	ND	214	107	200	4.23	
<b>EXT DRO &gt;C28-C36</b>	<b>13.0</b>	10.0	02/22/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 02/22/2021  
 Reported: 02/23/2021  
 Project Name: WP BYRD #1  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 02/22/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 6' (H210413-02)**

BTX 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	02/22/2021	ND	1.91	95.6	2.00	1.35		
Toluene*	<0.050	0.050	02/22/2021	ND	1.96	97.9	2.00	1.18		
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.95	97.5	2.00	0.909		
Total Xylenes*	<0.150	0.150	02/22/2021	ND	6.03	100	6.00	0.442		
Total BTX	<0.300	0.300	02/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	02/22/2021	ND	206	103	200	4.95	
<b>DRO &gt;C10-C28*</b>	<b>32.4</b>	10.0	02/22/2021	ND	214	107	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/22/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/22/2021  
 Reported: 02/23/2021  
 Project Name: WP BYRD #1  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 02/22/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 5' (H210413-03)**

BTX 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	02/22/2021	ND	1.91	95.6	2.00	1.35		
Toluene*	<0.050	0.050	02/22/2021	ND	1.96	97.9	2.00	1.18		
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.95	97.5	2.00	0.909		
Total Xylenes*	<0.150	0.150	02/22/2021	ND	6.03	100	6.00	0.442		
Total BTX	<0.300	0.300	02/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

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	02/22/2021	ND	206	103	200	4.95	
DRO >C10-C28*	281	10.0	02/22/2021	ND	214	107	200	4.23	
EXT DRO >C28-C36	60.5	10.0	02/22/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

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**Analytical Results For:**

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

Received: 02/22/2021  
 Reported: 02/23/2021  
 Project Name: WP BYRD #1  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 02/22/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 6' (H210413-04)**

BTX 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	02/22/2021	ND	1.91	95.6	2.00	1.35		
Toluene*	<0.050	0.050	02/22/2021	ND	1.96	97.9	2.00	1.18		
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.95	97.5	2.00	0.909		
Total Xylenes*	<0.150	0.150	02/22/2021	ND	6.03	100	6.00	0.442		
Total BTX	<0.300	0.300	02/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	02/22/2021	ND	206	103	200	4.95	
<b>DRO &gt;C10-C28*</b>	<b>23.9</b>	10.0	02/22/2021	ND	214	107	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/22/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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\*=Accredited Analyte

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---

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### Notes and Definitions

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

---

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\*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

---

Celey D. Keene, Lab Director/Quality Manager



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7





August 3, 2020

NMOCD District 1  
1625 N. French Dr.  
Hobbs, NM 88240

Re: Remediation Plan  
Apache Corporation  
WP Byrd Battery

RXSoil, Inc. is pleased to submit the remediation plan for the on-site remediation of impacted soil for the above release in Lea County, New Mexico.

Sincerely,

A stylized, handwritten signature in black ink, appearing to read "Jace Caraway".

Jace Caraway  
Chief Operating Officer  
RXSoil, Inc.  
(940) 210-2051

A handwritten signature in black ink, appearing to read "Zach Robbins".

Zach Robbins  
Technical and Engineering Analyst  
RXSoil, Inc.  
(210) 400-7645

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RXSoil, Inc.

201 Main St. Ste. 1360, Fort Worth, TX 76102

## I. Introduction

On behalf of Apache Corporation ("Apache"), RXSoil, Inc. ("RXSoil") has prepared this work plan that describes remediation of the release of crude oil at the WP Byrd battery.

The release was discovered on 4/8/2020 in Unit Letter B&G, Section 12, Township 20S, Range 36E (see *Figure 1* for Vicinity Map) at approximate coordinates 32.59134, -103.30740. It was reported that 20 barrels of crude oil were released, and 10 barrels of crude oil were recovered during the initial response.

## II. Site Assessment/Characterization

1. **Site Map** – See *Figure 2*
2. **Depth to ground water** – Remediation standards for <50 feet will be used on this remediation project.
3. **Wellhead protection area** – Known active water sources are shown in *Figure 3*.
4. **Distance to nearest significant watercourse** – There is no significant watercourse within a half-mile of any horizontal boundary of the release (see *Figure 4*).
5. **Soil/waste characteristics** – Samples were collected inside of the battery at the surface and depths of 1', 2', 3' and 4'. This sample location (32.591293°, -103.307384°) is shown in *Figure 2* with results summarized in *Appendix A*. This delineation shows contamination to 3' BGS and clean soil at 4' BGS.

## III. Remediation Plan

RXSoil's will utilize an in-situ application of RXBiotics, RXSoil's naturally occurring, non-genetically modified bioremediation agent. This product, along with physical agitation will lead to the degradation of hydrocarbons. Treatment will continue throughout the battery until all soils test below the remediation standards set forth in Table 1 of 19.15.29 NMAC (total TPH <100 mg/kg).

Samples will be taken using a stainless-steel hand shovel while remediation samples will be taken using a stainless-steel bucket auger. All tools are to be decontaminated before each sample, as specified in *Field Equipment Cleaning and Decontamination* (EPA, 2015). This includes wiping the equipment clean, water-rinsing the equipment, washing the equipment in detergent and water, and rinsing the equipment in water.

Samples will temporarily be transferred to a new plastic bag in the field. Once in a location safer for handling glass, the samples will be transferred to glass jars, supplied by an approved laboratory. The threads on all jars will be wiped clean to allow an air-tight seal. Samples will be transferred on ice to a third-party laboratory to ensure tests are completed within an appropriate timeline

Remediation efforts will commence following the approval of this remediation plan and are estimated to take approximately 90 days. It is estimated that 100 cubic yards will need remediated.

## IV. Restoration, Reclamation and Re-Vegetation

RXSoil, Inc.

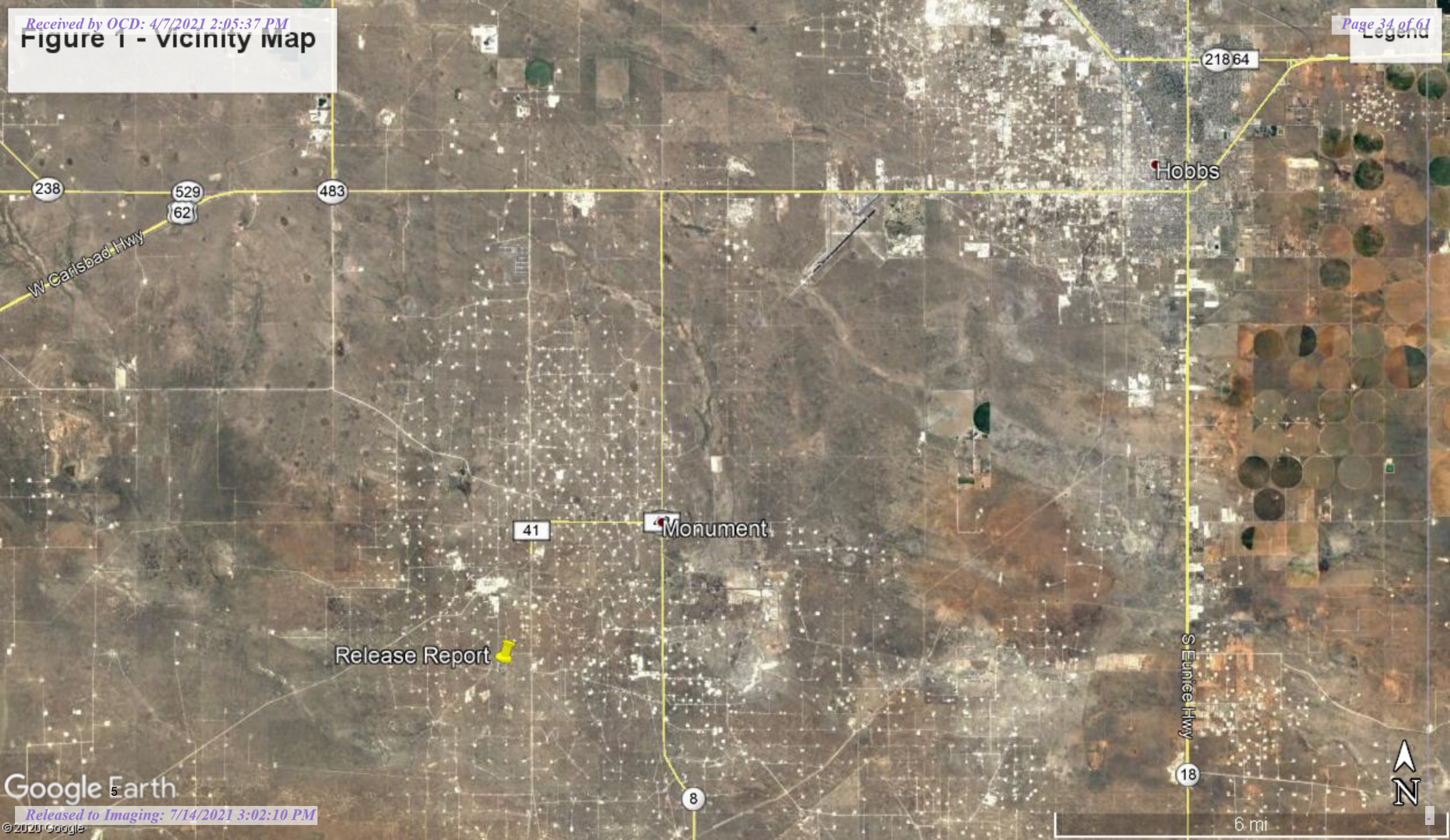
201 Main St. Ste. 1360, Fort Worth, TX 76102

Following remediation, RXSoil will ensure the battery has been restored to its initial state.

**RXSoil, Inc.**

**201 Main St. Ste. 1360, Fort Worth, TX 76102**







Page 35 of 61

Legend

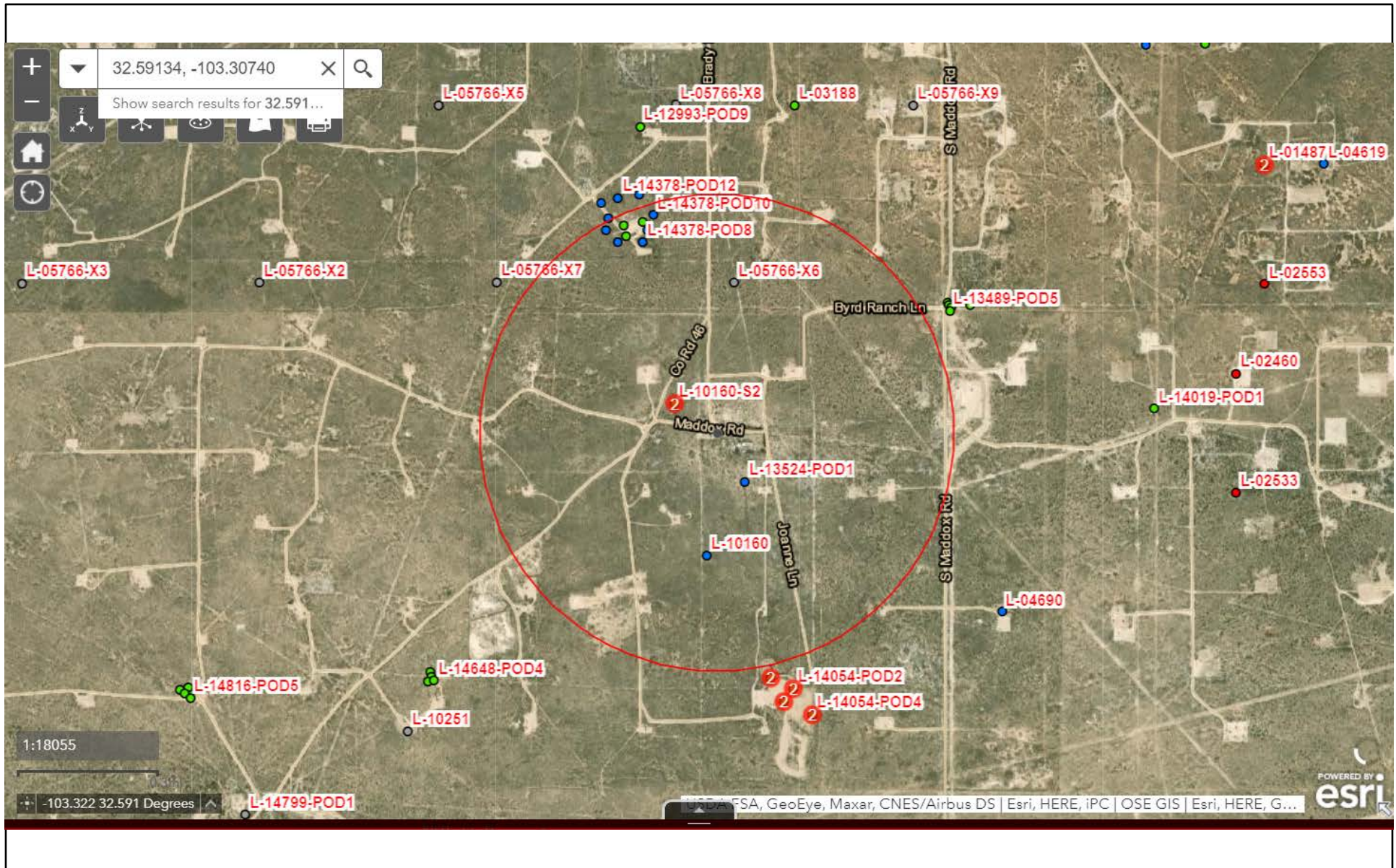
Battery Outline

Point






Figure 3. Water Source Map

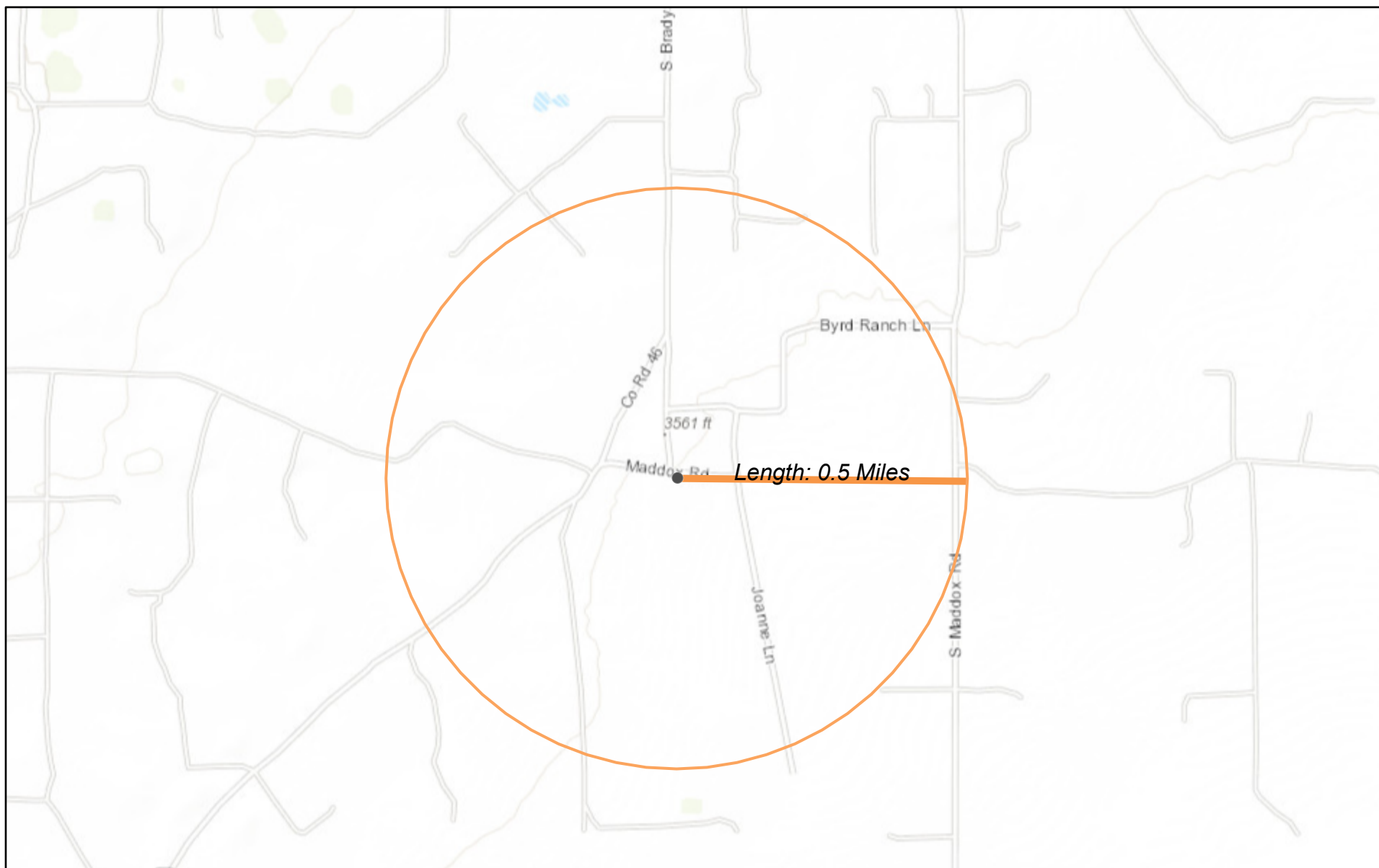


8/3/2020, 8:43:47 PM

 0.5 mile radius


\*\*Water Rights Lookup print function would not export data for review.

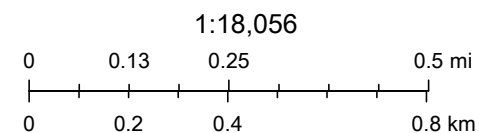
Figure 4 - Hydrology Map



8/3/2020, 8:43:47 PM

 Override 1     OCD District Offices

 Override 1  
8



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

## **APPENDIX A**

### **DELINEATION SUMMARY TABLE**

**RXSoil, Inc.**

**201 Main St. Ste. 1360, Fort Worth, TX 76102**

Appendix A. Delineation Data												
Sample Point	Depth (ft)	Sample Date	Chloride	BTEX (8021B)					TPH (8015M)			
			Lab Test	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	C6-C35
SP1	S	7/10/2020	<16.0	<0.200	0.573	<0.200	8.17	8.74	<b>707</b>	<b>24,600</b>	<b>5,340</b>	<b>30,647.0</b>
SP1	1'	7/10/2020	-	<0.050	2.29	<0.500	14.7	17	<b>717</b>	<b>1,910</b>	<b>105</b>	<b>2,732.0</b>
SP1	2'	7/10/2020	-	<0.200	0.301	<0.200	2.99	3.29	97	<b>616</b>	53	<b>766.0</b>
SP1	3'	7/16/2020	-	<0.050	<0.050	<0.050	0.381	0.4	42	<b>791</b>	143	<b>975.5</b>
SP1	4'	7/16/2020	-	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30
NMOCD Thresholds				<b>10</b>				<b>50</b>				<b>100</b>

**BOLD** results indicate results above threshold

- indicates tests were not ran

All units in mg/kg unless otherwise noted



## **APPENDIX B**

### **C141**

**RXSoil, Inc.**

**201 Main St. Ste. 1360, Fort Worth, TX 76102**

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>&lt;50</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 checked="" type="checkbox"/> Yes <input 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 <b>not</b> 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 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.

State of New Mexico  
Oil Conservation Division

Page 4

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: Larry Baker Title: Environmental Tech SR.  
Signature: *Larry Baker* Date: 8/4/2020  
email: larry.baker@apachecorp.com Telephone: 432-631-6982

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Larry Baker Title: Environmental Tech SR.  
Signature: Larry Baker Date: 8/4/2020  
email: larry.baker@apachecorp.com Telephone: 432-631-6982

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## **APPENDIX C**

### **PHOTO PAGE**

**RXSoil, Inc.**

**201 Main St. Ste. 1360, Fort Worth, TX 76102**



Location



Backside of Battery



Backside of Battery



Front of Battery





Front of Battery





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

---

July 15, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD

Enclosed are the results of analyses for samples received by the laboratory on 07/10/20 16:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/10/2020  
 Reported: 07/15/2020  
 Project Name: WP BYRD  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 07/10/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ SURFACE (H001822-01)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/13/2020	ND	1.90	95.0	2.00	2.84	
<b>Toluene*</b>	<b>0.573</b>	0.200	07/13/2020	ND	1.90	94.8	2.00	3.05	
Ethylbenzene*	<0.200	0.200	07/13/2020	ND	1.93	96.6	2.00	2.86	
<b>Total Xylenes*</b>	<b>8.17</b>	0.600	07/13/2020	ND	5.58	93.0	6.00	2.82	
<b>Total BTX</b>	<b>8.74</b>	1.20	07/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 174 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/13/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>707</b>	50.0	07/13/2020	ND	206	103	200	4.26	
<b>DRO &gt;C10-C28*</b>	<b>24600</b>	50.0	07/13/2020	ND	191	95.3	200	8.73	
<b>EXT DRO &gt;C28-C36</b>	<b>5340</b>	50.0	07/13/2020	ND					

Surrogate: 1-Chlorooctane 229 % 44.3-144

Surrogate: 1-Chlorooctadecane 463 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 07/10/2020  
 Reported: 07/15/2020  
 Project Name: WP BYRD  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 07/10/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 1' (H001822-02)**

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	07/14/2020	ND	1.86	92.9	2.00	6.35	
<b>Toluene*</b>	<b>2.29</b>	0.500	07/14/2020	ND	1.87	93.3	2.00	6.58	
Ethylbenzene*	<0.500	0.500	07/14/2020	ND	1.88	93.9	2.00	6.65	
<b>Total Xylenes*</b>	<b>14.7</b>	1.50	07/14/2020	ND	5.41	90.2	6.00	6.73	
<b>Total BTX</b>	<b>17.0</b>	3.00	07/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 73.3-129

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>717</b>	50.0	07/14/2020	ND	198	98.9	200	1.72	
<b>DRO &gt;C10-C28*</b>	<b>1910</b>	50.0	07/14/2020	ND	182	90.8	200	1.56	
<b>EXT DRO &gt;C28-C36</b>	<b>105</b>	50.0	07/14/2020	ND					

Surrogate: 1-Chlorooctane 131 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/10/2020  
 Reported: 07/15/2020  
 Project Name: WP BYRD  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 07/10/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 2' (H001822-03)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	07/14/2020	ND	1.86	92.9	2.00	6.35		
Toluene*	0.301	0.200	07/14/2020	ND	1.87	93.3	2.00	6.58		
Ethylbenzene*	<0.200	0.200	07/14/2020	ND	1.88	93.9	2.00	6.65		
Total Xylenes*	2.99	0.600	07/14/2020	ND	5.41	90.2	6.00	6.73		
Total BTEx	3.29	1.20	07/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	96.9	10.0	07/14/2020	ND	198	98.9	200	1.72	
DRO >C10-C28*	616	10.0	07/14/2020	ND	182	90.8	200	1.56	
EXT DRO >C28-C36	53.1	10.0	07/14/2020	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 6



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

---

July 21, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD

Enclosed are the results of analyses for samples received by the laboratory on 07/16/20 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 07/16/2020  
 Reported: 07/21/2020  
 Project Name: WP BYRD  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 07/16/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 3' (H001857-01)**

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	07/17/2020	ND	1.96	98.2	2.00	0.0226	
Toluene*	<0.050	0.050	07/17/2020	ND	1.97	98.6	2.00	0.434	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	1.99	99.4	2.00	0.215	
<b>Total Xylenes*</b>	<b>0.381</b>	0.150	07/17/2020	ND	5.73	95.5	6.00	0.266	
<b>Total BTEX</b>	<b>0.381</b>	0.300	07/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>41.5</b>	10.0	07/17/2020	ND	218	109	200	0.595	
<b>DRO &gt;C10-C28*</b>	<b>791</b>	10.0	07/17/2020	ND	209	105	200	1.72	
<b>EXT DRO &gt;C28-C36</b>	<b>143</b>	10.0	07/17/2020	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/16/2020  
 Reported: 07/21/2020  
 Project Name: WP BYRD  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 07/16/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 4' (H001857-02)**

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	07/17/2020	ND	1.92	96.2	2.00	3.21	
Toluene*	<0.050	0.050	07/17/2020	ND	1.92	95.9	2.00	3.86	
Ethylbenzene*	<0.050	0.050	07/17/2020	ND	1.94	96.9	2.00	3.43	
Total Xylenes*	<0.150	0.150	07/17/2020	ND	5.57	92.9	6.00	3.84	
Total BTEX	<0.300	0.300	07/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 73.3-129

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	07/17/2020	ND	197	98.4	200	5.32	
DRO >C10-C28*	<10.0	10.0	07/17/2020	ND	218	109	200	5.43	QM-07
EXT DRO >C28-C36	<10.0	10.0	07/17/2020	ND					

Surrogate: 1-Chlorooctane 89.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.3 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



---

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

---

### 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

---

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.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



**END OF REPORT**

**RXSoil, Inc.**

**201 Main St. Ste. 1360, Fort Worth, TX 76102**



Incident ID	NRM2010837524
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Larry Baker Title: Environmental Tech SR.  
Signature: Larry Baker Date: 4/7/2021  
email: larry.baker@apachecorp.com Telephone: 432-631-6982

**OCD Only**

Received by: Robert Hamlet Date: 7/14/2021

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Robert Hamlet Date: 7/14/2021

**District I**

1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

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

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

CONDITIONS

Action 23325

**CONDITIONS**

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 23325
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	The Workplan/Remediation Plan is approved with the following conditions: Sidewall/floor samples need to comply with the strictest closure criteria limits 600 mg/kg for Chlorides and 100 mg/kg TPH. Soil contamination levels need to meet closure criteria standards for proven depth to water determination. A closure report will need to be uploaded to the OCD payment portal within 90 days of approval of the remediation plan.	7/14/2021