



303 Veterans Airpark Lane Midland, TX 79705

## **Remediation Plan**

March 29, 2021

Re: NMGSAU # 373  
Case nAPP2100442670

### **Background:**

On 12/29/2020 a release occurred due to a 3 inch poly line separated from the collar near the steel to poly transition. The release (GPS: 32.642640, -103.294748) is located west of Monument, New Mexico in unit letter K section 19 township 21S range 37E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest well of record suggest the groundwater depth below the release to be 21 feet below ground surface.

On 3/9/2021 vertical delineation was conducted utilizing a backhoe. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Horizontal surface 5 point composite 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. HC 3 was above chloride standards for release less than 50 feet to groundwater. On 3/16/2021 was further sampled 5 feet out from previous sample point and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

### **Remediation Plan:**

Apache Corporation proposes that the release area be excavated to a depth of 2 feet. Once excavation is complete final 5 point bottom and wall composite samples will be collected not to exceed 200 square feet. All samples collected will be submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated soil (180 yards) will be disposed of at an OCD approved disposal facility. Once laboratory analysis confirm excavation meet the requirements for releases less than 50 feet to groundwater the excavation will be backfilled with clean imported caliche to ground surface. The remediation will be completed within 90 days of OCD approval of the plan.

Enclosed: C-141, Groundwater Data, Maps, Sample Data, Laboratory Results, and Field Notes.

Submitted by;

*Bruce Baker*

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

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>21</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <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: 3/29/2021  
 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: 3/29/2021  
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

**OCD Only**

Received by: Chad Hensley Date: 05/18/2021

- Approved     Approved with Attached Conditions of Approval     Denied     Deferral Approved

Signature: *Chad Hensley* Date: 05/18/2021

Received by OCD: 3/29/2021 2:29:24 PM

Show search results for 32.642...

Map navigation controls including Home, Refresh, and various tool icons.

Well information popup window for well L-13525-POD1.

Legal Description	
County	LE
Drill Start Date	3/25/2014
Drill Finish Date	3/25/2014
Plug Date	
Proof of Completion of well Received Date	
Elevation	
Depth of Well	30
Ground Water Source	S
% Shallow	100
Depth to water	21
Well Log File Date	8/17/2014
Scheduled Date	
Use of Well	
Pump Type	
<a href="#">Zoom to</a>	

L-13525-POD1

1:2256

Released to Imaging: 5/18/2021 2:14:58 PM



### Coordinates

Please Select a Coordinate System and enter the coordinates:

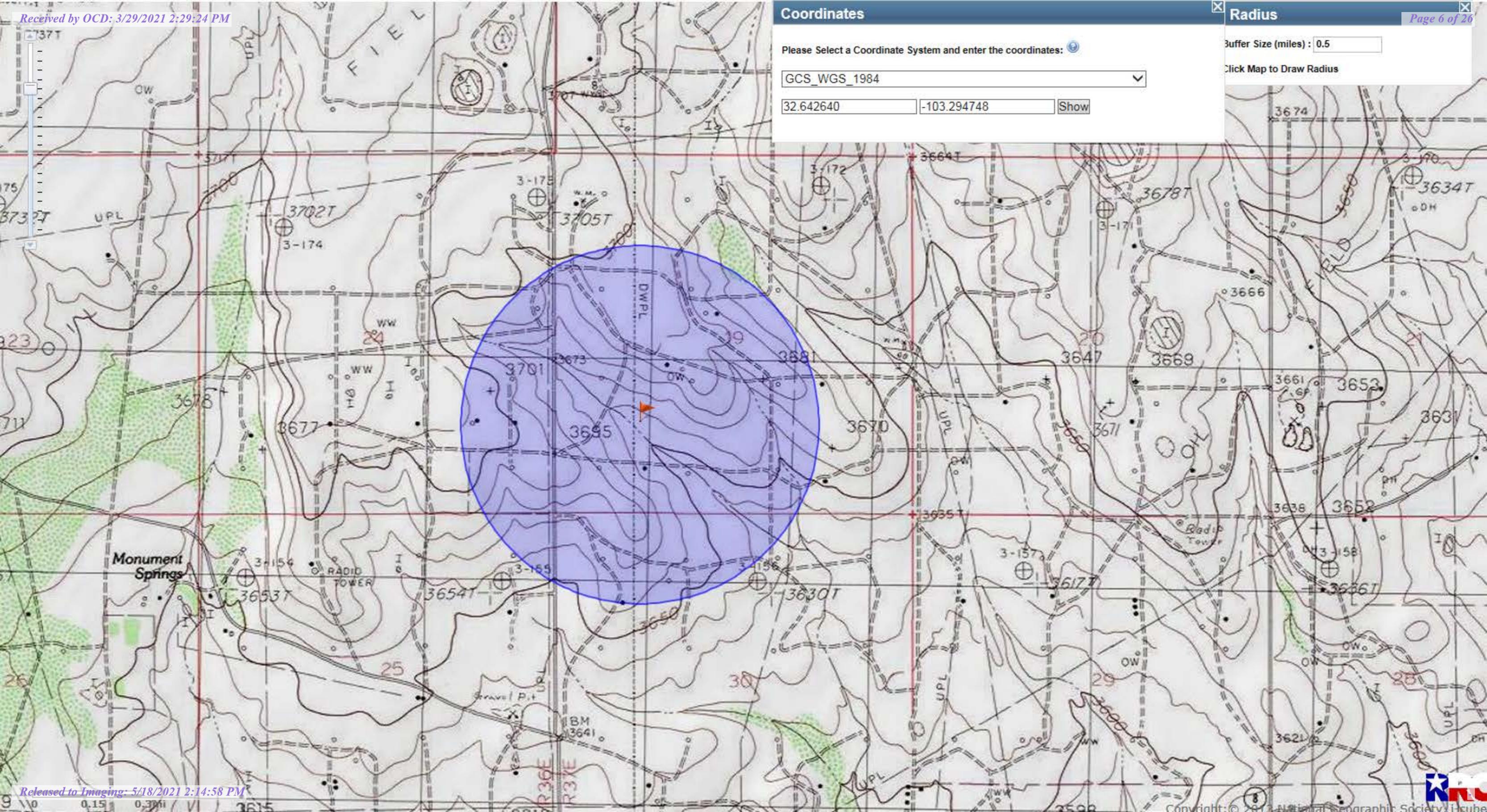
GCS\_WGS\_1984

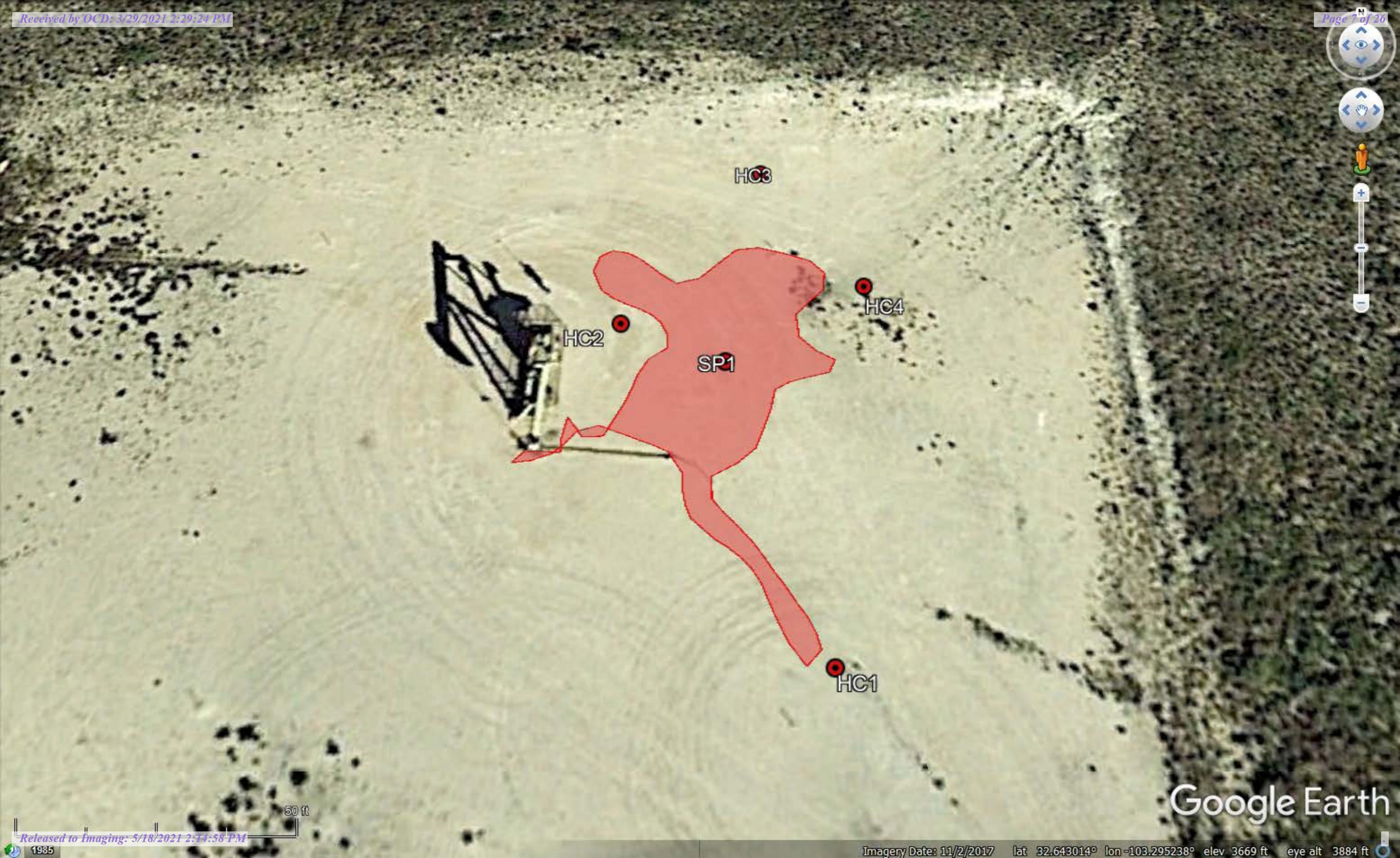
32.642640 -103.294748 Show

### Radius

Buffer Size (miles): 0.5

Click Map to Draw Radius





50 ft

**NEDU Injection Line**

Complete List

Map ID	Sample Date	Sample ID	Depth	Field Chloride	LAB Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
<b>Delineation Samples</b>														
SP1	3/9/2021	SP1 @ Surface	S	1,835	1,870	<.050	<.050	<.050	<.150	<.300	138	30,200	7,640	32.6427170 -103.2946275
		SP1 @ 1'	1'	507	592	<.050	<.050	<.050	<.150	<.300	19	977	160	
		SP1 @ 2'	2'	274	304	<.050	<.050	<.050	<.150	<.300	<10.0	66.1	21.8	
		SP1 @ 3'	3'	360	544	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	
<b>Horizontal Samples</b>														
HC1	3/9/2021	HC1	S	217	160	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	32.6425053 -103.2945225
HC2	3/9/2021	HC2	S	516	464	<.050	<.050	<.050	<.150	<.300	<10.0	13.2	11.2	32.6427218 -103.2946851
HC3	3/9/2021	HC3	S	529	768	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	32.6428204 -103.2945799
	3/16/2021	HC3	S	300	96	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	32.642846 -103.294572
HC4	3/9/2021	HC4	S	317	224	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	32.6427551 -103.2946275



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

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March 15, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU #373

Enclosed are the results of analyses for samples received by the laboratory on 03/09/21 16:45.

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 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:	03/09/2021	Sampling Date:	03/09/2021
Reported:	03/15/2021	Sampling Type:	Soil
Project Name:	NMGSAU #373	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: HC 1 (H210574-01)**

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	03/11/2021	ND	2.02	101	2.00	0.458	
Toluene*	<0.050	0.050	03/11/2021	ND	2.09	105	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/11/2021	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	03/11/2021	ND	6.68	111	6.00	1.25	
Total BTEX	<0.300	0.300	03/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	160	16.0	03/11/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	03/10/2021	ND	218	109	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	03/10/2021	ND					

Surrogate: 1-Chlorooctane 62.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 58.1 % 42.2-156

Cardinal Laboratories

\*=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:	03/09/2021	Sampling Date:	03/09/2021
Reported:	03/15/2021	Sampling Type:	Soil
Project Name:	NMGSAU #373	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: HC 2 (H210574-02)**

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	03/11/2021	ND	2.02	101	2.00	0.458	
Toluene*	<0.050	0.050	03/11/2021	ND	2.09	105	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/11/2021	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	03/11/2021	ND	6.68	111	6.00	1.25	
Total BTEX	<0.300	0.300	03/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>464</b>	16.0	03/11/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	208	104	200	1.61	
<b>DRO &gt;C10-C28*</b>	<b>13.2</b>	10.0	03/10/2021	ND	218	109	200	0.365	
<b>EXT DRO &gt;C28-C36</b>	<b>11.2</b>	10.0	03/10/2021	ND					

Surrogate: 1-Chlorooctane 65.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 60.5 % 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:	03/09/2021	Sampling Date:	03/09/2021
Reported:	03/15/2021	Sampling Type:	Soil
Project Name:	NMGSAU #373	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: HC 3 (H210574-03)**

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	03/11/2021	ND	2.02	101	2.00	0.458	
Toluene*	<0.050	0.050	03/11/2021	ND	2.09	105	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/11/2021	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	03/11/2021	ND	6.68	111	6.00	1.25	
Total BTEX	<0.300	0.300	03/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>768</b>	16.0	03/11/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	03/10/2021	ND	218	109	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	03/10/2021	ND					

Surrogate: 1-Chlorooctane 67.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 63.1 % 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:	03/09/2021	Sampling Date:	03/09/2021
Reported:	03/15/2021	Sampling Type:	Soil
Project Name:	NMGSAU #373	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: HC 4 (H210574-04)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2021	ND	2.02	101	2.00	0.458	
Toluene*	<0.050	0.050	03/11/2021	ND	2.09	105	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/11/2021	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	03/11/2021	ND	6.68	111	6.00	1.25	
Total BTEX	<0.300	0.300	03/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	224	16.0	03/11/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	03/10/2021	ND	218	109	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	03/10/2021	ND					

Surrogate: 1-Chlorooctane 78.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.8 % 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:	03/09/2021	Sampling Date:	03/09/2021
Reported:	03/15/2021	Sampling Type:	Soil
Project Name:	NMGSAU #373	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 SURFACE (H210574-05)**

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	03/12/2021	ND	2.02	101	2.00	0.458	
Toluene*	<0.050	0.050	03/12/2021	ND	2.09	105	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/12/2021	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	03/12/2021	ND	6.68	111	6.00	1.25	
Total BTEX	<0.300	0.300	03/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 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
<b>Chloride</b>	<b>1870</b>	16.0	03/11/2021	ND	416	104	400	3.92	

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>138</b>	50.0	03/10/2021	ND	208	104	200	1.61		
<b>DRO &gt;C10-C28*</b>	<b>30200</b>	50.0	03/10/2021	ND	218	109	200	0.365		
<b>EXT DRO &gt;C28-C36</b>	<b>7640</b>	50.0	03/10/2021	ND						

Surrogate: 1-Chlorooctane 128 % 44.3-144

Surrogate: 1-Chlorooctadecane 562 % 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:	03/09/2021	Sampling Date:	03/09/2021
Reported:	03/15/2021	Sampling Type:	Soil
Project Name:	NMGSAU #373	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 1' (H210574-06)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2021	ND	2.02	101	2.00	0.458	
Toluene*	<0.050	0.050	03/11/2021	ND	2.09	105	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/11/2021	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	03/11/2021	ND	6.68	111	6.00	1.25	
Total BTEX	<0.300	0.300	03/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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
<b>Chloride</b>	<b>592</b>	16.0	03/11/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>18.8</b>	10.0	03/10/2021	ND	188	94.2	200	5.06	
<b>DRO &gt;C10-C28*</b>	<b>977</b>	10.0	03/10/2021	ND	217	109	200	2.75	QM-07, QR-03
<b>EXT DRO &gt;C28-C36</b>	<b>160</b>	10.0	03/10/2021	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.5 % 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:	03/09/2021	Sampling Date:	03/09/2021
Reported:	03/15/2021	Sampling Type:	Soil
Project Name:	NMGSAU #373	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 2' (H210574-07)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2021	ND	2.02	101	2.00	0.458	
Toluene*	<0.050	0.050	03/11/2021	ND	2.09	105	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/11/2021	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	03/11/2021	ND	6.68	111	6.00	1.25	
Total BTEX	<0.300	0.300	03/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	304	16.0	03/11/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	188	94.2	200	5.06	
DRO >C10-C28*	66.1	10.0	03/10/2021	ND	217	109	200	2.75	
EXT DRO >C28-C36	21.8	10.0	03/10/2021	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.7 % 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:	03/09/2021	Sampling Date:	03/09/2021
Reported:	03/15/2021	Sampling Type:	Soil
Project Name:	NMGSAU #373	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 3' (H210574-08)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2021	ND	2.02	101	2.00	0.458	
Toluene*	<0.050	0.050	03/11/2021	ND	2.09	105	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/11/2021	ND	2.12	106	2.00	1.20	
Total Xylenes*	<0.150	0.150	03/11/2021	ND	6.68	111	6.00	1.25	
Total BTEX	<0.300	0.300	03/11/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/11/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	188	94.2	200	5.06	
DRO >C10-C28*	<10.0	10.0	03/10/2021	ND	217	109	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	03/10/2021	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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.
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.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Apacher  
 Project Manager: Bruce Baker  
 Address: \_\_\_\_\_  
 City: Hobbs State: NM zip: 88240  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project Location: WUESPAU #373  
 Sampler Name: see attached DN

P.O. #: \_\_\_\_\_ Company: \_\_\_\_\_  
 Attn: \_\_\_\_\_ Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	FOR LAB USE ONLY	MATRIX	PRESERV	SAMPLING	DATE		TIME		X	X	X	X	X	X	X	X
						DATE	TIME	DATE	TIME								
<u>H810574</u>	<u>HIC 1</u>	<u>(G)RAB DE (C)MPS</u>	<u>GROUNDWATER</u>	<u>ICB COOL</u>	<u>3/9</u>	<u>10:03</u>	<u>10:05</u>	<u>10:07</u>	<u>10:09</u>	<u>X</u>							
<u>2</u>	<u>HIC 2</u>		<u>SOIL</u>		<u>3/9</u>	<u>10:05</u>	<u>10:07</u>	<u>10:09</u>	<u>10:11</u>	<u>X</u>							
<u>3</u>	<u>HIC 3</u>		<u>SLUDGE</u>		<u>3/9</u>	<u>10:05</u>	<u>10:07</u>	<u>10:09</u>	<u>10:11</u>	<u>X</u>							
<u>4</u>	<u>HIC 4</u>		<u>OTHER :</u>		<u>3/9</u>	<u>10:05</u>	<u>10:07</u>	<u>10:09</u>	<u>10:11</u>	<u>X</u>							
<u>5</u>	<u>SD1 Surface</u>		<u>ACID/BASE:</u>		<u>3/9</u>	<u>10:15</u>	<u>10:15</u>	<u>10:17</u>	<u>10:17</u>	<u>X</u>							
<u>6</u>	<u>SR101'</u>		<u>OTHER :</u>		<u>3/9</u>	<u>10:15</u>	<u>10:15</u>	<u>10:17</u>	<u>10:17</u>	<u>X</u>							
<u>7</u>	<u>SR102'</u>				<u>3/9</u>	<u>10:15</u>	<u>10:15</u>	<u>10:17</u>	<u>10:17</u>	<u>X</u>							
<u>8</u>	<u>SR103'</u>				<u>3/9</u>	<u>10:15</u>	<u>10:15</u>	<u>10:17</u>	<u>10:17</u>	<u>X</u>							

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Relinquished By: \_\_\_\_\_  
 Date: 3-9-21  
 Time: 1645  
 Received By: see attached  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Delivered By: (Circle One) Standard Observed Temp. °C 8.4 Sample Condition Intact CHECKED BY: \_\_\_\_\_ (Initials)  
 Cooler Intact  Yes  No  
 Cooler Intact  Yes  No  
 Turnaround Time: \_\_\_\_\_ Bacteria (only)  Standard  Rush  
 Thermometer ID #113  Yes  No  
 Correction Factor None  Yes  No  
 Corrected Temp. °C \_\_\_\_\_

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



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

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March 18, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU #373

Enclosed are the results of analyses for samples received by the laboratory on 03/16/21 15:53.

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:	03/16/2021	Sampling Date:	03/16/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU #373	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: HC 3 (H210666-01)**

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	03/18/2021	ND	2.11	105	2.00	4.03		
Toluene*	<0.050	0.050	03/18/2021	ND	2.03	102	2.00	4.55		
Ethylbenzene*	<0.050	0.050	03/18/2021	ND	1.99	99.5	2.00	3.73		
Total Xylenes*	<0.150	0.150	03/18/2021	ND	5.92	98.7	6.00	2.78		
Total BTEX	<0.300	0.300	03/18/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	96.0	16.0	03/18/2021	ND	432	108	400	3.77		

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	03/18/2021	ND	206	103	200	7.30		
DRO >C10-C28*	<10.0	10.0	03/18/2021	ND	210	105	200	6.06		
EXT DRO >C28-C36	<10.0	10.0	03/18/2021	ND						

Surrogate: 1-Chlorooctane 72.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 69.8 % 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

**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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Mar

Apache NMGSAU 373

SPI Surface	32.6427170	-103.2946275	
11.0/30.2	.67	2.74	= 1,835 V
SPI @ 1'			
11.2/30.0	.19	2.67	= 507 V
SPI @ 2'			
11.0/30.3	.10	2.75	= 274 V
HC1	32.6425053	-103.2945225	
11.1/30.3	.08	2.72	= 217 V
HC2	32.6427218	-103.2946851	
11.0/30.0	.19	2.72	= 516 V
HC3	32.6428204	-103.2945799	
11.1/30.0	.05	2.72	= 2,855 X
HC4	32.6427551	-103.2944981	
11.3/30.0	.12	2.65	= 317 V
SPI @ 3'			
11.1/30.5	.17	2.72	= 360 V
HC3 10' out NE			
11.0/30.3	.82	2.75	= 2,254 X
HC3 20' out			
11.0/30.0	.41	2.72	= 1,114 X
HC3 30' out	32.6428732	-103.2945222	
11.1/30.3	.20	2.65	= 529 V

NMGSAN 373 3/16/21  
HC3 - 32.642846, -103.294572  
 $10.0/30.1 = 3.01 = .10 = 300$

**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 22247

**CONDITIONS OF APPROVAL**

Operator: #1000 APACHE CORPORATION Midland, TX79705		303 Veterans Airpark Ln	OGRID: 873	Action Number: 22247	Action Type: C-141
OCD Reviewer chensley			Condition None		