



303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

August 26, 2020

Re: EAU D 40 Battery
Case # NRM2015736485

Background:

On 5/28/2020 a release occurred due to a hole developed on a steel valve at the meter header resulting in the loss of produced water. The release (GPS: 32.799356, -104.139214) is located east of Artesia, NM in unit letter P section 26 township 17S range 28E. A groundwater survey was conducted utilizing data from NMOSE and USGS. The nearest well indicates ground water below the release to be 257 feet below ground surface.

On 8/13/2020 vertical delineation was conducted at six sample points utilizing a backhoe collecting samples in one foot intervals. All samples were field titrated for chlorides and representative samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On 8/20/2020 SP 2 and SP 6 were further delineated and all samples collected were submitted to a commercial laboratory for analysis of chloride. Horizontal five point composite samples were collected at the surface in all four cardinal directions and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On 8/24/2020 a Horizontal five point composite sample was collected on the surface 5 feet further south of HC3 and submitted to a commercial laboratory for analysis of chloride.

Remediation Plan:

Apache Corporation proposes that area around SP 3 be excavated to a depth of one foot. The area around SP 4 and SP 6 be excavated to a depth of 4 feet. The area around SP 5 be excavated to a depth of 3 feet. Once excavation is complete final five point bottom composite samples will be collected not to exceed 1,000 square feet and five point wall composite samples will be collected not to exceed 200 square feet. All final composite samples will be submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. If laboratory analysis are above table one standard for releases greater than 100 feet to ground water the areas will be further excavated until levels are below table one standards. All excavated material (950 yards) will be hauled to an OCD approved disposal facility. The pad area will be backfilled with clean imported caliche and the pasture area will be backfilled with clean imported top soil and contoured to the surrounding area. The pasture will be reseeded to surface landowner guidelines. Apache Corporation will complete remediation activities within six months of OCD approval of the plan.

Enclosed: C-141, Groundwater Data, Sample Diagram, Sample Data, Laboratory Results,
Field Notes

Submitted by;

Bruce Baker

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982

Off# 432-818-1000

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>257</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input 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.

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: 8/26/2020
 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.

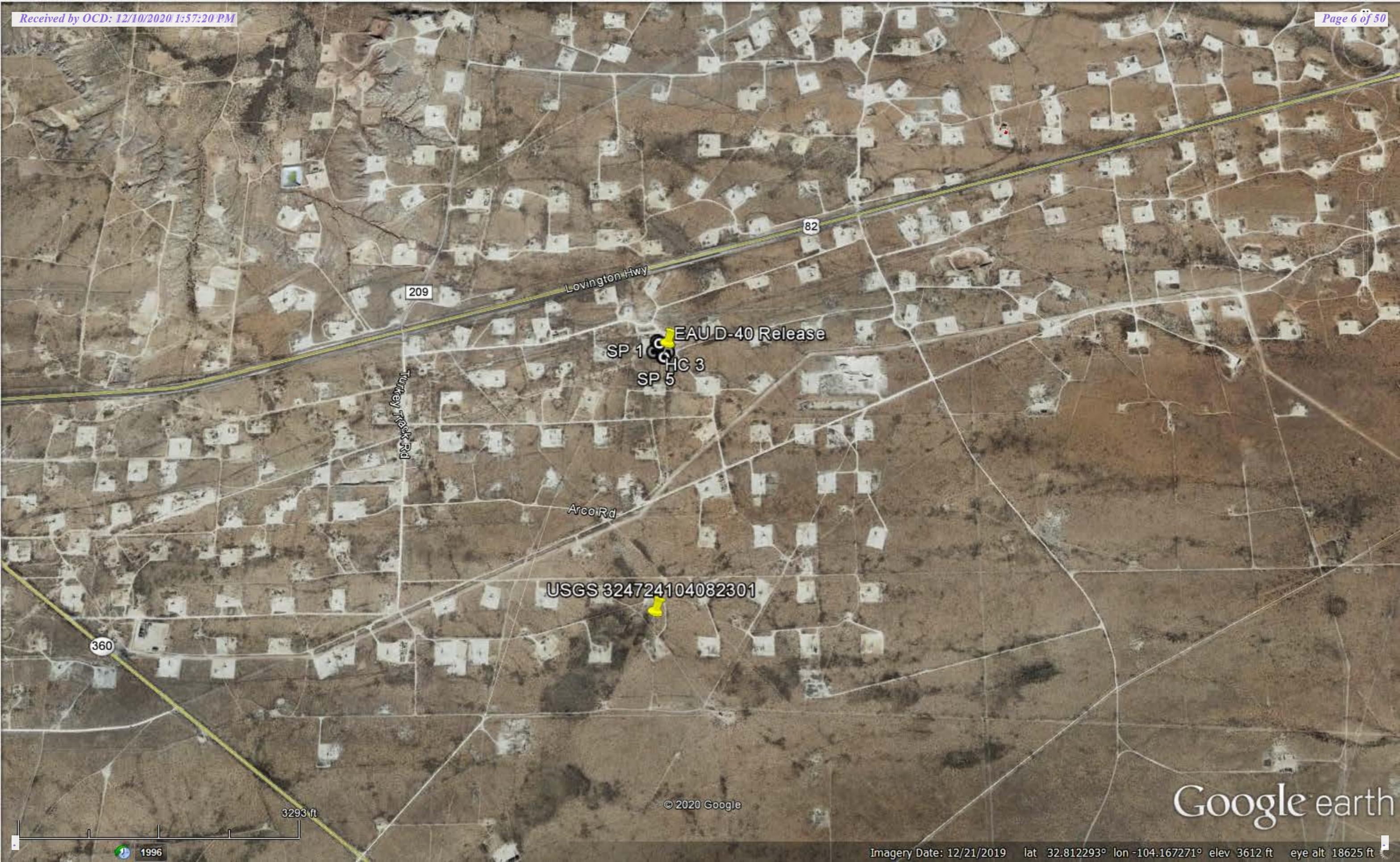
Printed Name: Larry Baker Title: Environmental Tech SR.
 Signature: *Larry Baker* Date: 8/26/2020
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____



209

82

Lovington Hwy

Turkey Creek Rd

Arco Rd

360

EAU D-40 Release
SP 1
HC 3
SP 5

USGS 324724104082301

© 2020 Google

Google earth

3293 ft

1996

Imagery Date: 12/21/2019 lat 32.812293° lon -104.167271° elev 3612 ft eye alt 18625 ft



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category: Geographic Area:

Click to hideNews Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#)

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 324724104082301

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 324724104082301 17S.28E.35.42233

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°47'24", Longitude 104°08'23" NAD27

Land-surface elevation 3,659 feet above NGVD29

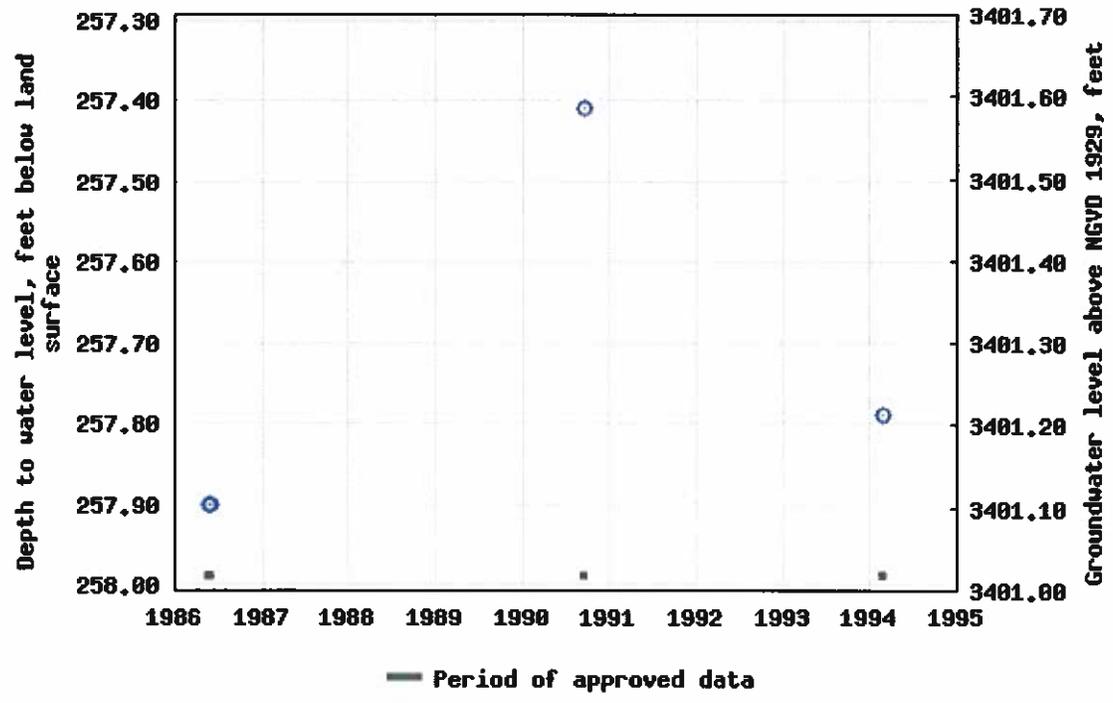
The depth of the well is 280.00 feet below land surface.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

USGS 324724104082301 17S.28E.35.42233



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#) [Plug-Ins](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2020-01-02 10:44:41 EST

0.57 0.48 nadww01

Radius

Buffer Size (miles) : 0.5

Click Map to Draw Radius

Coordinates

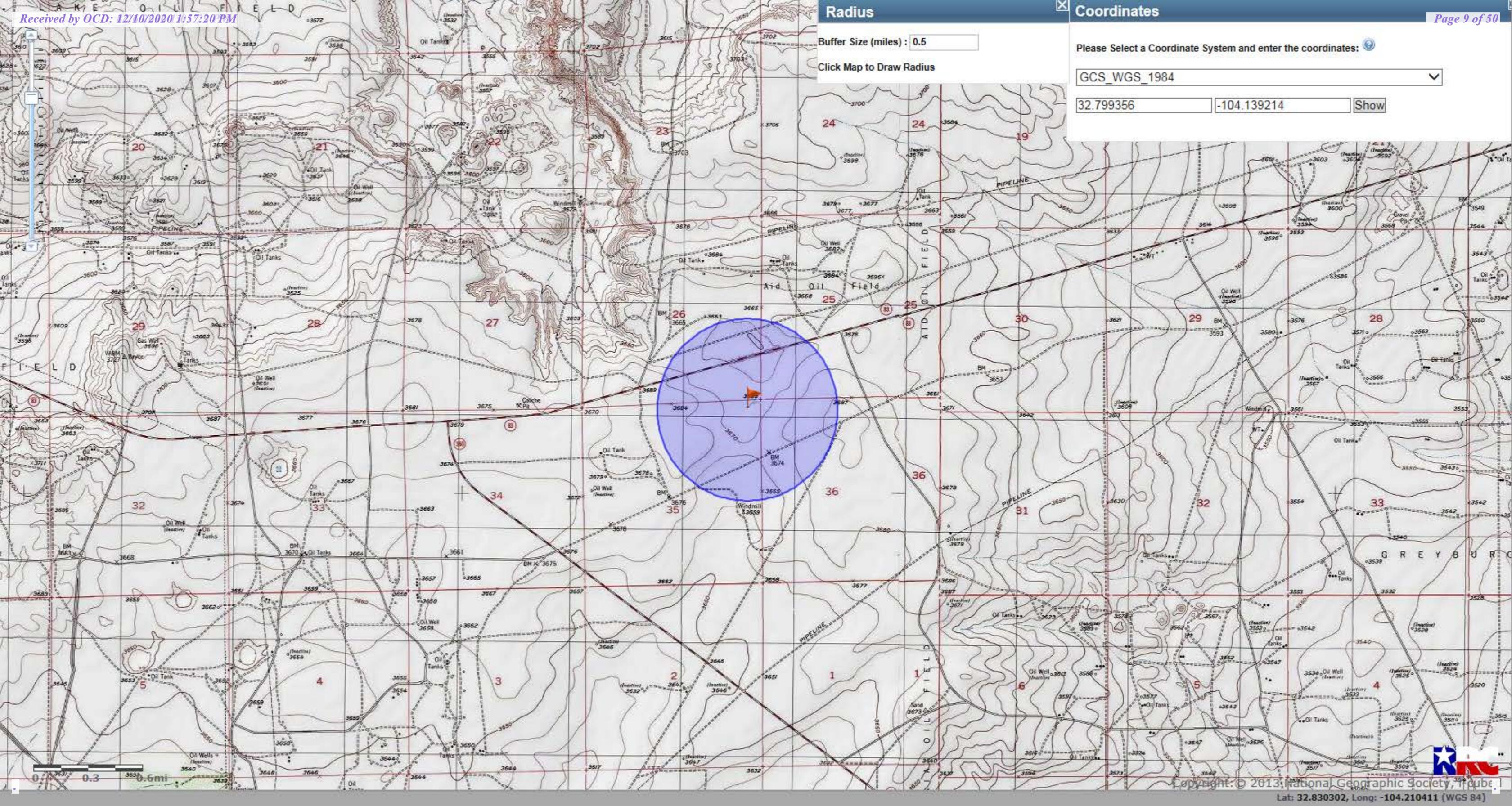
Please Select a Coordinate System and enter the coordinates:

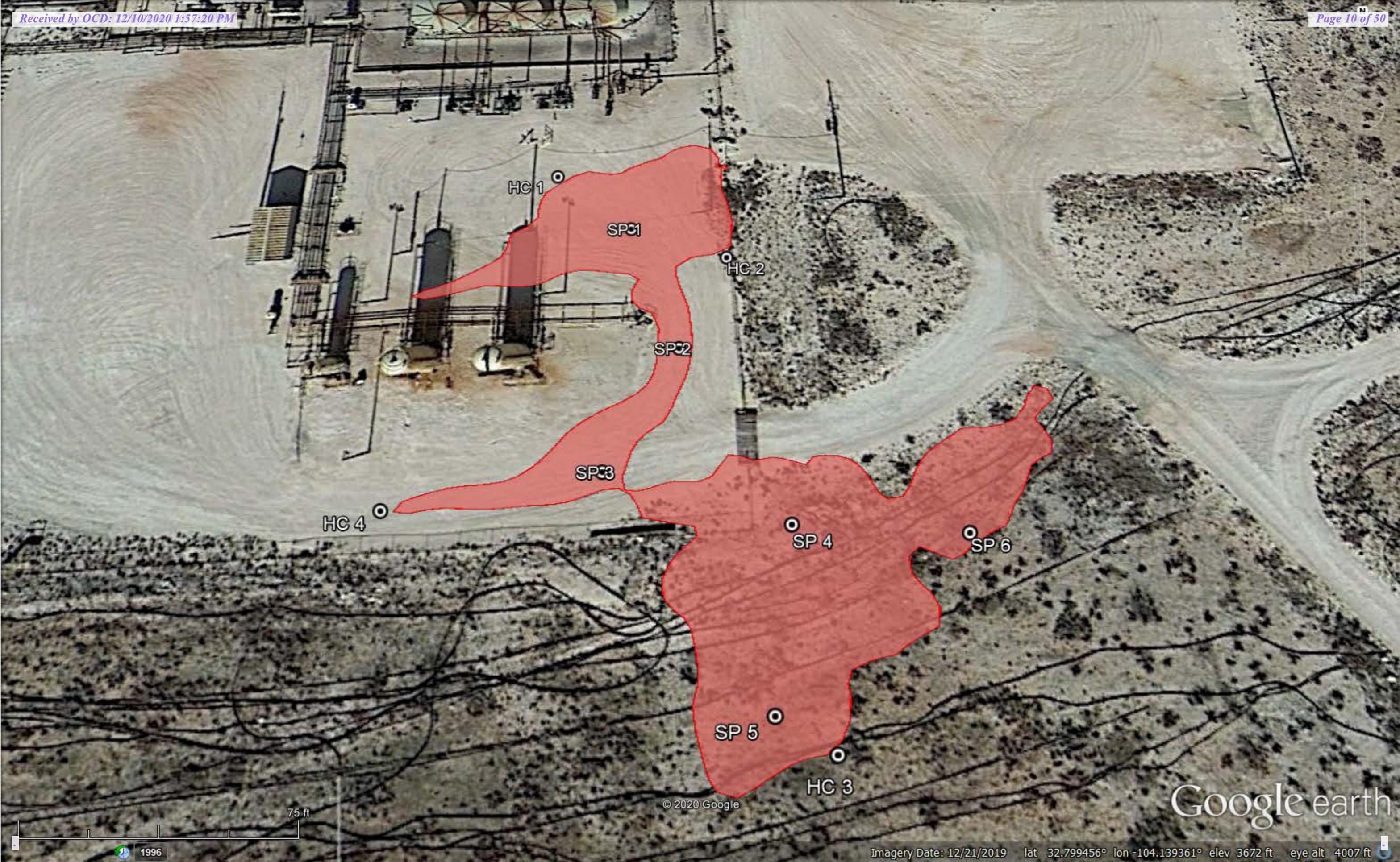
GCS_WGS_1984

32.799356

-104.139214

Show





HC 4

HC 1

HC 2

SP 1

SP 2

SP 3

SP 4

SP 6

SP 5

HC 3

75 ft

1996

© 2020 Google

Google earth

Imagery Date: 12/21/2019 lat 32.799456° lon -104.139361° elev 3672 ft eye alt 4007 ft

NEDU Injection Line
Complete List

Sample Date	Sample ID	Depth	Chloride Field	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
8/13/2020	SP1	S	10,837	9,730	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.799678, - 104.139443
8/13/2020		1'	1,649										
8/13/2020		2'	389	416	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
8/13/2020	SP2	S	15,385	13,200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.799543, - 104.139384
8/13/2020		1'	904										
8/13/2020		2'	291	672	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
8/20/2020		3'	147	80									
8/13/2020	SP 3	S	24,047	10,600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.799414, - 104.139462
		1'	899										
8/13/2020		2'	506	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
8/13/2020	SP 4	S	6,531	9,860	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.799364, - 104.139271
		1'	1,514										
8/13/2020		2'	1,751	1,520	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
8/13/2020		3'	439	624	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
8/20/2020		4'	299	256									
8/13/2020	SP 5	S	5,679	5,920	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.799201, - 104.139293
		1'	1,362										
8/13/2020		2'	1,221	1550	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
8/13/2020		3'	117	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
8/13/2020	SP 6	S	24,960	33,600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.799354, - 104.139097
8/13/2020		1'	2,309										
8/13/2020		2'	1,263	1,070	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
8/13/2020		3'	1,384										
8/13/2020		4'	357	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
8/20/2020	HC1	S	151	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.79974, - 104.13953
8/20/2020	HC2	S	297	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.79965, - 104.13933
8/20/2020	HC3	S	175	1,060	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.79917, - 104.13924
8/24/2020	HC3	S	149	<16.0									5' further south of previous GPS Point
8/20/2020	HC4	S	476	336	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.79968, - 104.13967



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

August 19, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU D40

Enclosed are the results of analyses for samples received by the laboratory on 08/13/20 14:33.

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.

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:	08/13/2020	Sampling Date:	08/13/2020
Reported:	08/19/2020	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ SURFACE (H002116-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.20		
Toluene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.71		
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.02	101	2.00	5.26		
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.88	98.0	6.00	5.31		
Total BTEX	<0.300	0.300	08/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	9730	16.0	08/17/2020	ND	416	104	400	3.92	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/13/2020	ND	180	89.8	200	9.79		
DRO >C10-C28*	<10.0	10.0	08/13/2020	ND	177	88.6	200	9.21		
EXT DRO >C28-C36	<10.0	10.0	08/13/2020	ND						

Surrogate: 1-Chlorooctane 89.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.5 % 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

Analytical Results For:

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

Received: 08/13/2020
 Reported: 08/19/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 2' (H002116-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.20	
Toluene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.71	
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.02	101	2.00	5.26	
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.88	98.0	6.00	5.31	
Total BTEX	<0.300	0.300	08/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	416	16.0	08/17/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2020	ND	180	89.8	200	9.79	
DRO >C10-C28*	<10.0	10.0	08/13/2020	ND	177	88.6	200	9.21	
EXT DRO >C28-C36	<10.0	10.0	08/13/2020	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.6 % 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

Analytical Results For:

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

Received: 08/13/2020
 Reported: 08/19/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H002116-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.20		
Toluene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.71		
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.02	101	2.00	5.26		
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.88	98.0	6.00	5.31		
Total BTEX	<0.300	0.300	08/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	13200	16.0	08/17/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/13/2020	ND	180	89.8	200	9.79		
DRO >C10-C28*	<10.0	10.0	08/13/2020	ND	177	88.6	200	9.21		
EXT DRO >C28-C36	<10.0	10.0	08/13/2020	ND						

Surrogate: 1-Chlorooctane 98.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 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

Analytical Results For:

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

Received: 08/13/2020
 Reported: 08/19/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 2' (H002116-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.20	
Toluene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.71	
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.02	101	2.00	5.26	
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.88	98.0	6.00	5.31	
Total BTEX	<0.300	0.300	08/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	672	16.0	08/17/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2020	ND	180	89.8	200	9.79	
DRO >C10-C28*	<10.0	10.0	08/13/2020	ND	177	88.6	200	9.21	
EXT DRO >C28-C36	<10.0	10.0	08/13/2020	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.0 % 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

Analytical Results For:

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

Received:	08/13/2020	Sampling Date:	08/13/2020
Reported:	08/19/2020	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ SURFACE (H002116-05)

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	08/14/2020	ND	2.04	102	2.00	4.20		
Toluene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.71		
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.02	101	2.00	5.26		
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.88	98.0	6.00	5.31		
Total BTEX	<0.300	0.300	08/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	
Chloride	10600	16.0	08/17/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/14/2020	ND	180	89.8	200	9.79		
DRO >C10-C28*	<10.0	10.0	08/14/2020	ND	177	88.6	200	9.21		
EXT DRO >C28-C36	<10.0	10.0	08/14/2020	ND						

Surrogate: 1-Chlorooctane 97.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 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

Analytical Results For:

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

Received: 08/13/2020
 Reported: 08/19/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 2' (H002116-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.20	
Toluene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.71	
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.02	101	2.00	5.26	
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.88	98.0	6.00	5.31	
Total BTEX	<0.300	0.300	08/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	320	16.0	08/17/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2020	ND	178	88.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	08/14/2020	ND	167	83.6	200	0.611	
EXT DRO >C28-C36	<10.0	10.0	08/14/2020	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.7 % 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

Analytical Results For:

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

Received: 08/13/2020
 Reported: 08/19/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ SURFACE (H002116-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.20	
Toluene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.71	
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.02	101	2.00	5.26	
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.88	98.0	6.00	5.31	
Total BTEX	<0.300	0.300	08/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	9860	16.0	08/17/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2020	ND	178	88.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	08/14/2020	ND	167	83.6	200	0.611	
EXT DRO >C28-C36	<10.0	10.0	08/14/2020	ND					

Surrogate: 1-Chlorooctane 93.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.9 % 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

Analytical Results For:

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

Received: 08/13/2020
 Reported: 08/19/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 2' (H002116-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.20	
Toluene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.71	
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.02	101	2.00	5.26	
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.88	98.0	6.00	5.31	
Total BTEX	<0.300	0.300	08/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	1520	16.0	08/17/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2020	ND	178	88.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	08/14/2020	ND	167	83.6	200	0.611	
EXT DRO >C28-C36	<10.0	10.0	08/14/2020	ND					

Surrogate: 1-Chlorooctane 96.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 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

Analytical Results For:

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

Received: 08/13/2020
 Reported: 08/19/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 3' (H002116-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.20	
Toluene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.71	
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.02	101	2.00	5.26	
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.88	98.0	6.00	5.31	
Total BTEX	<0.300	0.300	08/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	624	16.0	08/17/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2020	ND	178	88.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	08/14/2020	ND	167	83.6	200	0.611	
EXT DRO >C28-C36	<10.0	10.0	08/14/2020	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.8 % 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

Analytical Results For:

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

Received: 08/13/2020
 Reported: 08/19/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ SURFACE (H002116-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.20	
Toluene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.71	
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.02	101	2.00	5.26	
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.88	98.0	6.00	5.31	
Total BTEX	<0.300	0.300	08/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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
Chloride	5920	16.0	08/17/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2020	ND	178	88.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	08/14/2020	ND	167	83.6	200	0.611	
EXT DRO >C28-C36	<10.0	10.0	08/14/2020	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 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

Analytical Results For:

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

Received: 08/13/2020
 Reported: 08/19/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ 2' (H002116-11)

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	08/14/2020	ND	2.04	102	2.00	4.20	
Toluene*	<0.050	0.050	08/14/2020	ND	2.04	102	2.00	4.71	
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.02	101	2.00	5.26	
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.88	98.0	6.00	5.31	
Total BTEX	<0.300	0.300	08/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	1550	16.0	08/17/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2020	ND	178	88.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	08/14/2020	ND	167	83.6	200	0.611	
EXT DRO >C28-C36	<10.0	10.0	08/14/2020	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 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

Analytical Results For:

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

Received: 08/13/2020
 Reported: 08/19/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ 3' (H002116-12)

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	08/14/2020	ND	2.03	101	2.00	1.76	
Toluene*	<0.050	0.050	08/14/2020	ND	2.05	102	2.00	1.53	
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.03	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.90	98.4	6.00	1.54	
Total BTEX	<0.300	0.300	08/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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
Chloride	96.0	16.0	08/17/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2020	ND	178	88.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	08/14/2020	ND	167	83.6	200	0.611	
EXT DRO >C28-C36	<10.0	10.0	08/14/2020	ND					

Surrogate: 1-Chlorooctane 89.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.9 % 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

Analytical Results For:

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

Received: 08/13/2020
 Reported: 08/19/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ SURFACE (H002116-13)

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	08/14/2020	ND	2.03	101	2.00	1.76	
Toluene*	<0.050	0.050	08/14/2020	ND	2.05	102	2.00	1.53	
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.03	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.90	98.4	6.00	1.54	
Total BTEX	<0.300	0.300	08/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	33600	16.0	08/17/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2020	ND	178	88.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	08/14/2020	ND	167	83.6	200	0.611	
EXT DRO >C28-C36	<10.0	10.0	08/14/2020	ND					

Surrogate: 1-Chlorooctane 90.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.9 % 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

Analytical Results For:

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

Received: 08/13/2020
 Reported: 08/19/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 2' (H002116-14)

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	08/14/2020	ND	2.03	101	2.00	1.76	
Toluene*	<0.050	0.050	08/14/2020	ND	2.05	102	2.00	1.53	
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.03	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.90	98.4	6.00	1.54	
Total BTEX	<0.300	0.300	08/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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
Chloride	1070	16.0	08/17/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2020	ND	178	88.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	08/14/2020	ND	167	83.6	200	0.611	
EXT DRO >C28-C36	<10.0	10.0	08/14/2020	ND					

Surrogate: 1-Chlorooctane 92.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 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

Analytical Results For:

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

Received: 08/13/2020
 Reported: 08/19/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/13/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 4' (H002116-15)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2020	ND	2.03	101	2.00	1.76	
Toluene*	<0.050	0.050	08/14/2020	ND	2.05	102	2.00	1.53	
Ethylbenzene*	<0.050	0.050	08/14/2020	ND	2.03	101	2.00	1.55	
Total Xylenes*	<0.150	0.150	08/14/2020	ND	5.90	98.4	6.00	1.54	
Total BTEX	<0.300	0.300	08/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	208	16.0	08/17/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2020	ND	178	88.8	200	1.03	
DRO >C10-C28*	<10.0	10.0	08/14/2020	ND	167	83.6	200	0.611	
EXT DRO >C28-C36	<10.0	10.0	08/14/2020	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.0 % 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

- 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

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.

Celest 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

Company Name: <i>Apex Corporation</i>	P.O. #:	BILL TO	ANALYSIS REQUEST
Project Manager: <i>Bruce Baker</i>	Company:		
Address:	Attn:		
City:	Address:		
Phone #:	City:		
Project #:	State:		
Project Name: <i>EAU 040</i>	Zip:		
Project Location: <i>EAU 040</i>	Phone #:		
Sampler Name: <i>J. Brown</i>	Fax #:		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CL	BTEX	EXT. TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>HD02116</i>	<i>SP1 @ Surface</i>													
	<i>SP1 @ 2'</i>													
	<i>SP2 @ Surface</i>													
	<i>SP2 @ 2'</i>													
	<i>SP3 @ Surface</i>													
	<i>SP3 @ 2'</i>													
	<i>SP4 @ Surface</i>													
	<i>SP4 @ 2'</i>													
	<i>SP4 @ 3'</i>													
	<i>SP5 @ Surface</i>													

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Jeff Brown</i>	Date: <i>8/13/20</i>	Received By: <i>Shirley White</i>	Time: <i>1433</i>
Relinquished By:	Date:	Received By:	Time:

Delivered By: (Circle One)	Observed Temp. °C	Corrected Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)
Sampler - UPS - Bus - Other:	<i>5.4</i>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<i>JB</i>	<i>Standard</i>	<input checked="" type="checkbox"/>	Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:		P.O. #:		BILL TO		ANALYSIS REQUEST			
Project Manager:		Company:							
Address:		Attn:							
City:		State:		Zip:					
Phone #:		Fax #:		Address:					
Project #:		Project Owner:		City:					
Project Name:		State:		Zip:					
Project Location:		Phone #:		Fax #:					
Sampler Name:		FOR LAB USE ONLY							
Lab I.D. Sample I.D. ADD2116 11 SP5 @ 2' 12 SP5 @ 3' 13 SP6 @ Surface 14 SP6 @ 2' 15 SP6 @ 4'		(G)RAB OR (C)OMP.		DATE		TIME			
		# CONTAINERS		8/13/20		1421		CL	
		GROUNDWATER		1205		0941		BTEX	
		WASTEWATER		1418		1245		EXT. TPH	
		SOIL							
		OIL							
		SLUDGE							
		OTHER :							
		ACID/BASE:							
		ICE / COOL							
OTHER :									
MATRIX		PRESERV.		SAMPLING					
FOR LAB USE ONLY									

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising from this contract or tort, shall be limited to the amount paid by the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *Jeff Ruv* Date: 8/13/20 Received By: *Juanita Delgado* Date: 8/13/20
 Time: 1433

Delivered By: (Circle One) **S.4** Observed Temp. °C **5.4** Corrected Temp. °C
 Sampler - UPS - Bus - Other: Yes No

Sample Condition: Cool Intact Yes No

Checked By: *J.E.* (Initials)

Turnaround Time: Standard Rush

Bacteria (only) Sample Condition: Cool Intact Yes No

Thermometer ID #113 Correction Factor: None Yes No

Observed Temp. °C: Yes No

Corrected Temp. °C: Yes No

FORWARD TO: T 00704720

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



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

August 21, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU D40

Enclosed are the results of analyses for samples received by the laboratory on 08/20/20 15:30.

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.

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:	08/20/2020	Sampling Date:	08/20/2020
Reported:	08/21/2020	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 3' (H002197-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/21/2020	ND	416	104	400	3.77	

Sample ID: SP 4 @ 4' (H002197-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/21/2020	ND	416	104	400	3.77	

Sample ID: HC 1 (H002197-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2020	ND	2.02	101	2.00	3.83	
Toluene*	<0.050	0.050	08/21/2020	ND	2.01	100	2.00	3.91	
Ethylbenzene*	<0.050	0.050	08/21/2020	ND	1.98	98.8	2.00	3.88	
Total Xylenes*	<0.150	0.150	08/21/2020	ND	5.75	95.8	6.00	3.89	
Total BTEX	<0.300	0.300	08/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	80.0	16.0	08/21/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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

Analytical Results For:

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

Received: 08/20/2020
 Reported: 08/21/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/20/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HC 1 (H002197-03)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2020	ND	182	91.1	200	4.97	
DRO >C10-C28*	<10.0	10.0	08/21/2020	ND	180	90.2	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	08/21/2020	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>78.7 %</i>	<i>44.3-144</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>83.7 %</i>	<i>42.2-156</i>							

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

Analytical Results For:

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

Received: 08/20/2020
 Reported: 08/21/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/20/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HC 2 (H002197-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2020	ND	2.02	101	2.00	3.83	
Toluene*	<0.050	0.050	08/21/2020	ND	2.01	100	2.00	3.91	
Ethylbenzene*	<0.050	0.050	08/21/2020	ND	1.98	98.8	2.00	3.88	
Total Xylenes*	<0.150	0.150	08/21/2020	ND	5.75	95.8	6.00	3.89	
Total BTEX	<0.300	0.300	08/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	32.0	16.0	08/21/2020	ND	416	104	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	08/21/2020	ND	182	91.1	200	4.97	
DRO >C10-C28*	<10.0	10.0	08/21/2020	ND	180	90.2	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	08/21/2020	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.6 % 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

Analytical Results For:

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

Received: 08/20/2020
 Reported: 08/21/2020
 Project Name: EAU D40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/20/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HC 3 (H002197-05)

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	08/21/2020	ND	2.02	101	2.00	3.83	
Toluene*	<0.050	0.050	08/21/2020	ND	2.01	100	2.00	3.91	
Ethylbenzene*	<0.050	0.050	08/21/2020	ND	1.98	98.8	2.00	3.88	
Total Xylenes*	<0.150	0.150	08/21/2020	ND	5.75	95.8	6.00	3.89	
Total BTEX	<0.300	0.300	08/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	1060	16.0	08/21/2020	ND	416	104	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	08/21/2020	ND	182	91.1	200	4.97	
DRO >C10-C28*	<10.0	10.0	08/21/2020	ND	180	90.2	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	08/21/2020	ND					

Surrogate: 1-Chlorooctane 68.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.6 % 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

Analytical Results For:

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

Received:	08/20/2020	Sampling Date:	08/20/2020
Reported:	08/21/2020	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HC 4 (H002197-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2020	ND	2.02	101	2.00	3.83	
Toluene*	<0.050	0.050	08/21/2020	ND	2.01	100	2.00	3.91	
Ethylbenzene*	<0.050	0.050	08/21/2020	ND	1.98	98.8	2.00	3.88	
Total Xylenes*	<0.150	0.150	08/21/2020	ND	5.75	95.8	6.00	3.89	
Total BTEX	<0.300	0.300	08/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	336	16.0	08/21/2020	ND	416	104	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	08/21/2020	ND	182	91.1	200	4.97	
DRO >C10-C28*	<10.0	10.0	08/21/2020	ND	180	90.2	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	08/21/2020	ND					

Surrogate: 1-Chlorooctane 72.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.6 % 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.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

8 jo 8 ege4



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Apache Corporation</i>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <i>Brice Baker</i>		Company:					
Address:		Attn:					
City:		State:		Zip:			
Phone #:		Fax #:		Address:			
Project #:		Project Owner:		City:			
Project Name: <i>EAU 040</i>		State:		Zip:			
Project Location: <i>EAU 040</i>		Phone #:		Fax #:			
Sampler Name: <i>J. Brown</i>		FOR LAB USE ONLY					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	CL	BTEX	EXT. TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					
<i>HC002197</i>	<i>SP203'</i>											<i>8/20/12</i>	<i>0810</i>	<input checked="" type="checkbox"/>		
	<i>SP404'</i>											<i>8/20/12</i>	<i>0806</i>	<input checked="" type="checkbox"/>		
	<i>HC 1</i>											<i>8/20/12</i>	<i>0805</i>	<input checked="" type="checkbox"/>		
	<i>HC 2</i>											<i>8/20/12</i>	<i>0825</i>	<input checked="" type="checkbox"/>		
	<i>HC 3</i>											<i>8/20/12</i>	<i>0827</i>	<input checked="" type="checkbox"/>		
	<i>HC 4</i>													<input checked="" type="checkbox"/>		

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons of otherwise.

Relinquished By: <i>J. Brown</i>	Date: <i>8/20/12</i>	Received By: <i>Jawara Alkhatib</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Relinquished By: <i>J. Brown</i>	Date: <i>8/20/12</i>	Received By: <i>Jawara Alkhatib</i>	All Results are emailed. Please provide Email address:
Delivered By: (Circle One)	Observed Temp. °C: <i>4.6</i>	Sample Condition	CHECKED BY: (Initials) <i>JS</i>
Sampler - UPS - Bus - Other:	Corrected Temp. °C:	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time:
		Other Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
		Thermometer ID #113	Bacteria (only) Sample Condition
		Correction Factor: None	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
			Observed Temp. °C
			Corrected Temp. °C

FORM 5000-R-3-1-09/04/20

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



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

August 25, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU D40

Enclosed are the results of analyses for samples received by the laboratory on 08/24/20 13:50.

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.

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:	08/24/2020	Sampling Date:	08/24/2020
Reported:	08/25/2020	Sampling Type:	Soil
Project Name:	EAU D40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: HC 3 (H002224-01)

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	08/25/2020	ND	400	100	400	0.00	

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

- 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.

Celey D. Keene, Lab Director/Quality Manager

-104.139443

2, -104.139384

14, -104.139462

199364, -104.139271

SP5 - 32, 799201, -104.139293

SP6 - 32, 799354, -104.139097

SP1 @ Surface

$10.1/30.0 = 2.97 = 3.65 = 10,837$ 0931

SP2 @ Surface

$10.0/30.0 = 3 = ~~5.13~~ 5.13 = 15,385$ 0933

SP3 @ Surface

$10.3/30.2 = 2.93 = 8.21 = 24,047$ 0935

SP4 @ Surface

$10.1/30.0 = 2.97 = 2.20 = 6,531$ 0937

SP5 @ Surface

$10.1/30.2 = 2.99 = 1.90 = 5,679$ 0939

SP6 @ Surface

$10.3/30.0 = 2.91 = 8.58 = 24,960$ 0941

SP1 @ 1'

$10.0/30.0 = 3 = 0.55 = 1,649$

SP1 @ 2'

$10.1/30.3 = 3 = 0.13 = 389$ ✓

1000 JANES

SP2 @ 1'

$$10.3/30.1 = 2.92$$

$$= 0.31$$

$$= 904$$

SP2 @ 2'

$$10.3/30.1 = 2.92$$

$$= 0.10$$

$$= 291$$

1054

SP3 @ 1'

$$10.0/30.0 = 3$$

$$= 0.30$$

$$= 899$$

SP3 @ 2'

$$10.1/30.1 = 2.98 = 0.17$$

$$= 506$$

1056

SP4 @ 1'

$$10.1/30.0 = 2.97 = 0.51$$

$$= 1,514$$

SP4 @ 2'

$$10.0/30.2 = 3.02 = 0.58$$

$$= 1,751$$

SP5 @ 1'

$$10.4/30.2 = 2.90 = 0.47$$

$$= 1,362$$

SP5 @ 2'

$$10.3/30.0 = 2.91$$

$$= 0.42$$

$$= 1,221$$

SP6 @ 1'

$$10.1/30.3 = 3$$

$$= 0.77$$

$$= 2,309$$

SP6 @ 2'

$$10.0/30.1 = 3.01 = 0.42$$

$$= 1,263$$

SP4 @ 3'

$$10.3/30.2 = 2.93$$

$$= 0.15$$

$$= 439$$

1223

SP5 @ 3'

$$10.3/30.2 = 2.93$$

$$= 0.04$$

$$= 117$$

1225

SP6 @ 3'

$$10.0 / 30.1 = 3.01 = .46 = 1,384$$

SP6 @ 4'

$$10.1 / 30.1 = 2.98 = .12 = 357 \checkmark \quad 1243$$

EAU D40 8/20/20

SP2 @ 3'

~~0808~~ 0810

$$10.2/30.1 = 2.95 = .05 = 147 \checkmark$$

SP4 @ 4'

0800

$$10.0/30.0 = \frac{3}{3.0} = .10 = \overset{299}{\cancel{000}} \checkmark$$

Hc 2

0804

$$10.0/30.3 = 3.03 = .05 = 151 \checkmark$$

Hc 2

0806

$$10.1/30.1 = 2.98 = .10 = \cancel{000} 297 \checkmark$$

Hc 3

$$10.3/30.2 = 2.99 = .45 = 1,345 \times$$

Hc 4

$$10.1/30.0 = 2.97 = .32 = 950 \times$$

Hc 3

0825

$$10.3/30.2 = 2.93 = .06 = 175 \checkmark$$

Hc 4

~~0827~~

$$10.4/30.0 = 2.88 = .36 = 1,036 \times$$

Hc 4

$$10.1/30.1 = 2.98 = .16 = 476 \checkmark 0827$$

Hc 3

$$10.2/30.2 = 2.96 = .42 = 1,272$$

Hc 3

$$10.4/30.2 = 2.90 = .03 = 86 \checkmark$$

EAU D40 8/24/20

H3

0610

$$10.1 / 30.2 = 2.99 = .05$$

$$= 149 \checkmark$$

Incident ID	NRM2015736485
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: 8/26/2020
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: Robert Hamlet Date: 12/10/2020

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: Robert Hamlet Date: 12/10/2020

From: [Hamlet, Robert, EMNRD](#)
To: "Baker, Larry"
Cc: [Bratcher, Mike, EMNRD](#); [Eads, Cristina, EMNRD](#)
Subject: Remediation Conditional Approval - Apache - EAU D 40 Battery - (Incident #NRM2015736485)
Date: Thursday, December 10, 2020 1:45:00 PM
Attachments: [Remediation Conditional Approval - Apache - EAU D 40 Battery - \(Incident #NRM2015736485\).pdf](#)

Larry,

We have received your Workplan/Remediation Proposal for **Incident #NRM2015736485 EAU D 40 Battery**, thank you. This Workplan/Remediation proposal is approved with the following conditions:

- The report says, "Once excavation is complete final five point bottom composite samples will be collected not to exceed 1,000 square feet". At this time the largest variance we can grant is **500 square feet**.
- Please make sure all samples are under closure criteria standards set forth in the OCD Spill Rule.

Please let me know if you have any further questions.

Regards,

Robert Hamlet • Environmental Eng. Tech. III
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
505.748.1283 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



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 9859

CONDITIONS OF APPROVAL

Operator: #1000	APACHE CORPORATION Midland, TX79705	303 Veterans Airpark Ln	OGRID: 873	Action Number: 9859	Action Type: C-141
--------------------	--	-------------------------	---------------	------------------------	-----------------------

OCD Reviewer	Condition
rhamlet	We have received your Workplan/Remediation Proposal for Incident #NRM2015736485 EAU D 40 Battery, thank you. This Workplan/Remediation proposal is conditionally approved.