



**APACHE CORPORATION
EAST BLINEBRY DRINKARD UNIT (EBDU) CTB
CLOSURE REPORT**

**RELEASE DATE: 10/12/2019
CASE NO. 1RP-5789
INCIDENT NUMBER: NRM1933741261
U/L P, SECTION 11, TOWNSHIP 21S, RANGE 37E
LEA COUNTY, NEW MEXICO**

February 5, 2021

PREPARED BY:



**#7 Compress Road
Artesia, NM 88210**

February 5, 2021

State of New Mexico Energy Minerals and Natural Resources Department
Oil Conservation Division
C/O Mike Bratcher, Robert Hamlet, Cristina Eads
1625 N. French Drive
Hobbs, NM 88240

Apache Corporation
C/O Bruce Baker
2350 W. Marland Blvd
Hobbs, NM 88240

**RE: East Blinebry Drinkard Unit (EBDU) CTB
API No. 30-015-39406
U/L P, Section 11, Township 21S, Range 37E**

To Whom it May Concern:

Apache Corporation has retained ESS (Energy Staffing and Services), Environmental & Regulatory Division to address the environmental compliance issues regarding the release detailed herein. Below you will find the site-specific information concerning the delineation and remediation that has taken place at the EBDU CTB.

SITE BACKGROUND

This site is located in Lea County, New Mexico; 4 miles northwest of Eunice, New Mexico. The release occurred on October 12, 2019, when a plugged filter on an air compressor failed. The release occurred off of the edge of the pad south into the pasture area. 3bbls of oil and 73bbls of produced water was released, with 1bbl of oil and 14bbls of produced water recovered by use of vacuum truck. The C141 was submitted to the OCD on October 24, 2019.

GENERAL SITE CHARACTERISTICS

An extended ground water study was conducted and it has been determined that according to the New Mexico State Office of the Engineer and USGS, groundwater is 60' bgs. The closest well to the site with viable groundwater data is labelled CP 01221 POD1. Please find the groundwater data in the Remediation Plan attached herein.

Using the Table I, Closure Criteria for Soils Impacted by a Release dated 8/14/2018, this site falls under the site ranking of 51'-100'bgs. Please see the chart below for the sampling criteria for this release:

DGW	Constituent	Method	Limit
51'-100'	Chloride	EPA 300.0 OR SM4500 CLB	10,000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 METHOD 8015M	2,500 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	1,000 mg/kg
	BTEX	EPA SW-846 METHOD 8021B OR 8260B	50 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

KARST CHARACTERISTICS

Karst was evaluated from the NMOCD Share-Point for Karst Map Designations in reference to the EBDU CTB. Based on the site observations with the extent of the release margins, the potential for Karst formations in this area is of "low potential". With the information provided in this report, Karst is not a factor in determining the site characterization. Closure criteria will remain in the 51'-100' site ranking.

RELEASE INVESTIGATION DATA EVALUATION

On November 25th, 2019 Apache Corporation collected samples utilizing a backhoe to a depth of 2'bgs. Samples were collected and field titrated for chlorides and representative samples were submitted to a commercial laboratory for analysis for chloride, TPH and BTEX. Laboratory analysis indicated that hydrocarbons were above table one standards for releases of 51' to 100' to groundwater. On January 21, 2020 Apache Corporation continued delineation with depth utilizing a backhoe and submitted all samples to a commercial laboratory for analysis of TPH and BTEX.

On January 23, 2020, Apache Corporation submitted a workplan, this workplan was approved by the OCD on April 21, 2020. The remediation plan proposed that the SP1 area would be excavated to 4'bgs, the area of SP2, 3, and 4, would be excavated to a depth of 3'bgs. Once the excavation is complete 5-point composite samples will be collected not to exceed 500 sq. ft and 5-point wall composite samples will be collected not to exceed 200 sq. ft. All of the excavated material (approximately 1400 cubic yards) will be disposed of at a NMOCD approved facility. Once laboratory analysis met table one closure criteria the excavation will be backfilled with clean imported topsoil and contoured to the surrounding area. The disturbed area will then be reseeded in consultation with the private surface landowner. Please find the Remediation Workplan and supporting documents attached to this closure report.

SCOPE OF WORK AND LIMITATIONS

ESS began the remediation on January 4, 2021. A total of 2,024 cubic yards of contaminated soil was excavated and hauled to Sundance Services. On January 11th, 2021 ESS emailed the NMOCD at 2:04pm to request final closure samples. A total of 22 bottom hole composite samples were obtained along with 11 horizontal samples. These samples were jarred and delivered to Cardinal Laboratories for confirmation. All final composite samples were under the closure requirements for this release. Once the confirmation samples were received, backfilling of the site began on February 2, 2021 (closure sample data attached). 2,044 cubic yards of clean native topsoil was then hauled to the site and used to backfill the excavation. The excavated area was then contoured back to its natural state. Seeding will take place at a later date.

On behalf of Apache Corporation and Energy Staffing Services, we respectfully request closure of the release that occurred on the EBDU CTB. If you have any questions or concerns please feel free to contact me at any time, you can find my contact information below.

Sincerely,
Natalie Gladden

Natalie Gladden
Director of Environmental and Regulatory Services
#7 Compress Road
Artesia, NM 88210
Cell: 575-390-6397
Email: natalie@energystaffingllc.com

Attachments:

- Initial C141
- Site Map
- Karst Map
- Remediation Plan
- Closure Sample Map
- Closure Lab Analysis
- Site Photos
- Final C141



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM1933741261
District RP	1RP-5789
Facility ID	
Application ID	pRM1933741394

Release Notification

9GW6R-191024-C-1410

Responsible Party

Responsible Party: Apache Corporation	OGRID 873
Contact Name: Bruce Baker	Contact Telephone: (432) 631-6982
Contact email: Larry.Baker@apachecorp.com	Incident # (assigned by OCD)
Contact Mailing Address: 2350 W. Marland Blvd, Hobbs, NM 88240	

Location of Release Source

Latitude: W 32.489149 Longitude: N -103.129060

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: East Blinebry Drinkard Unit (EBDU) CTB	Site Type: Well
Date Release Discovered: October 12, 2019	API # 30-025-39406 (Closest Well)

Unit Letter	Section	Township	Range	County
P	11	21S	37E	LEA

Surface Owner: State Federal Tribal Private (Name: Bryant, James Allan)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (3 Barrels)	Volume Recovered (1 Barrel)
<input checked="" type="checkbox"/> Produced Water	Volume Released (73 Barrels)	Volume Recovered (14 Barrels)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Plugged filter on air compressor leading to the release of fluids.

State of New Mexico
Oil Conservation Division

Incident ID	NRM1933741261
District RP	1RP-5789
Facility ID	
Application ID	pRM1933741394

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release is greater than 25 barrels.
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If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
 Via email given to NM OCD by Jeff Broom, Environmental Technician, Apache Corporation

Initial Response

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

- The source of the release has been stopped.
- The impacted area has been secured to protect human health and the environment.
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Jeff Broom Title: Environmental Technician

Signature:  Date: 10/24/2019

Email: Jeffrey.Broom@apachecorp.com Telephone: (432) 664-4677

OCD Only

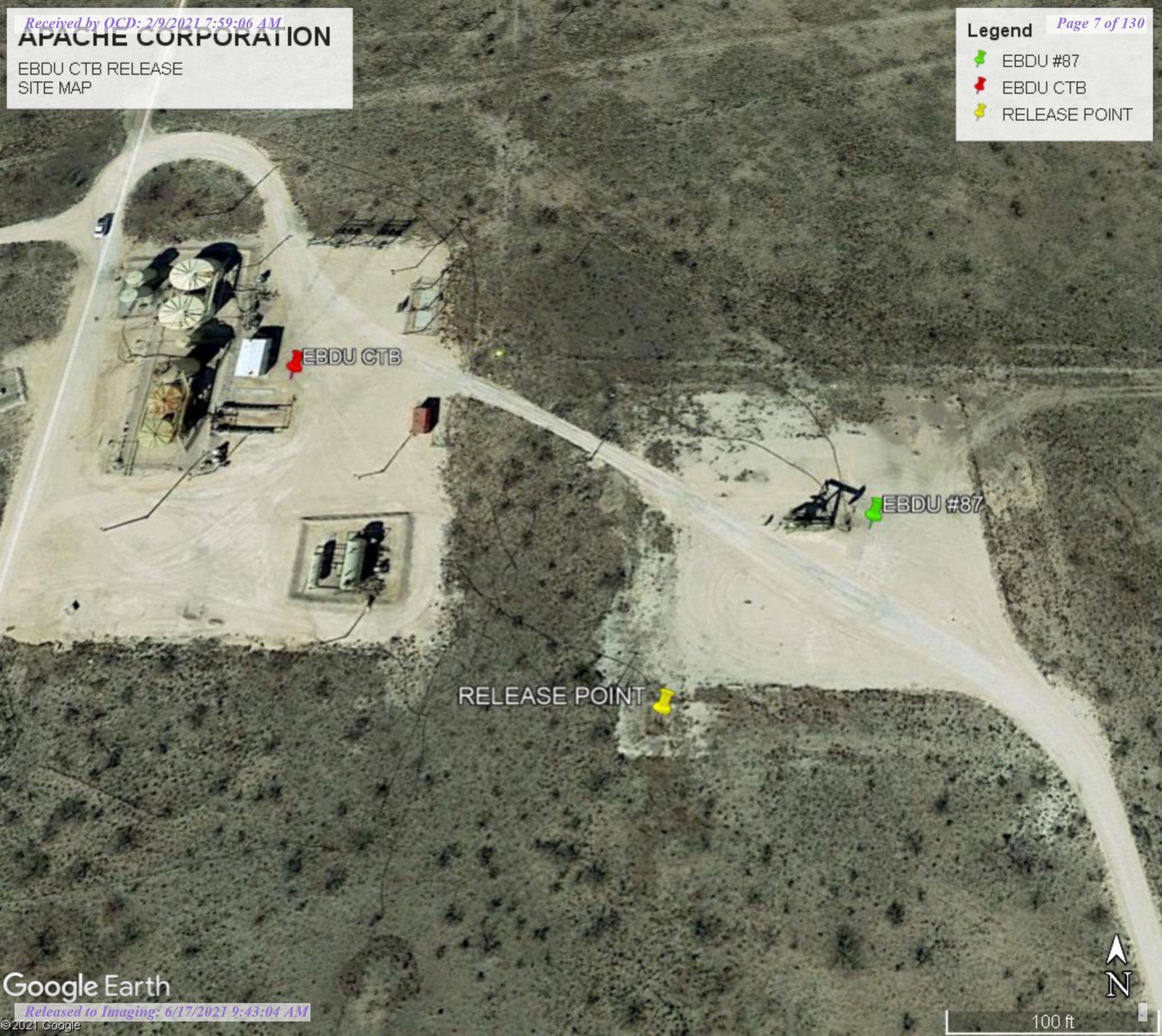
Received by: Ramona Marcus Date: 12/3/2019

APACHE CORPORATION

EBDU CTB RELEASE
SITE MAP

Legend

-  EBDU #87
-  EBDU CTB
-  RELEASE POINT

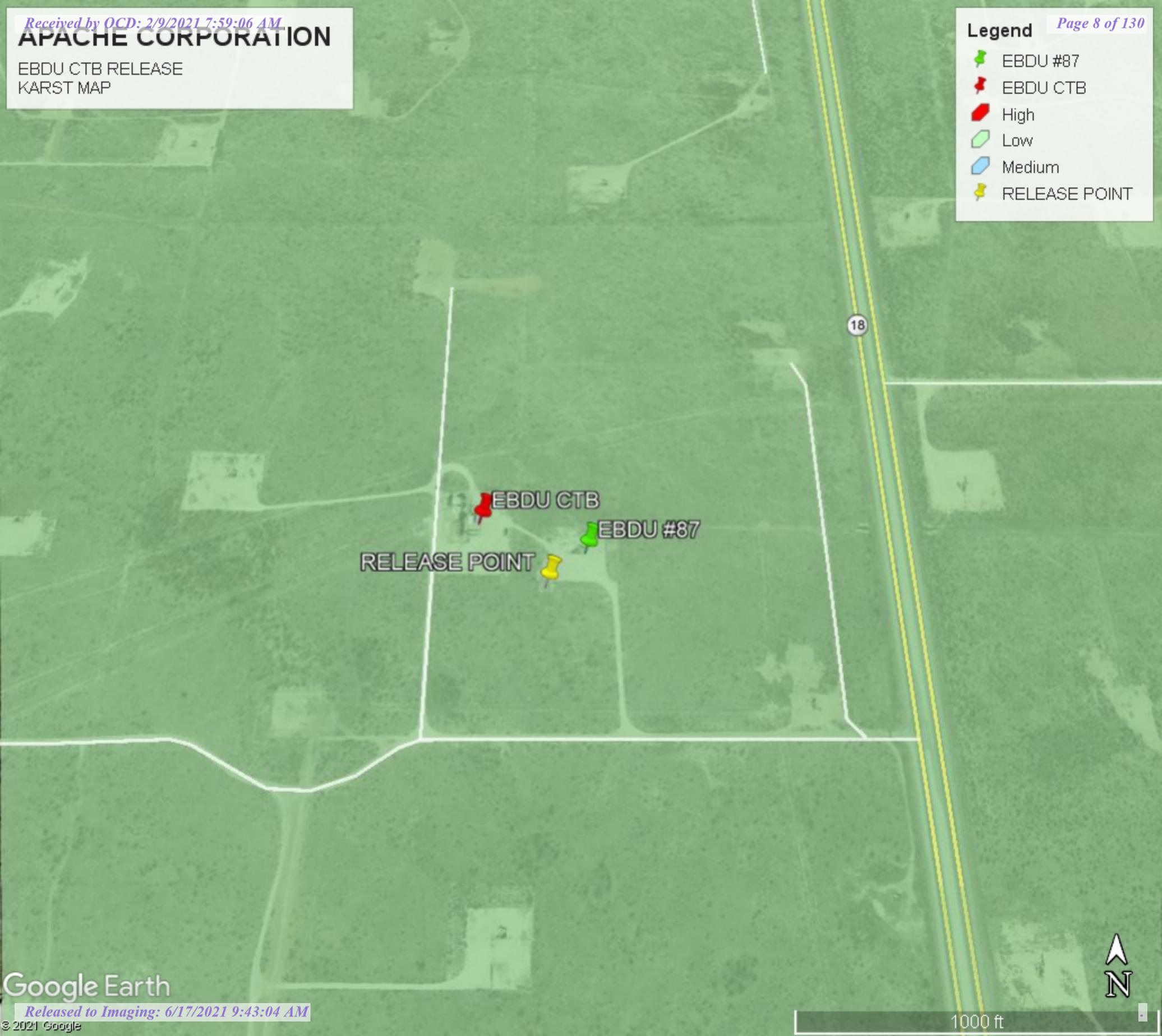


APACHE CORPORATION

EBDU CTB RELEASE
KARST MAP

Legend

-  EBDU #87
-  EBDU CTB
-  High
-  Low
-  Medium
-  RELEASE POINT





2350 W Marland Blvd Hobbs, NM 88240

Remediation Plan

January 23, 2020

Re: EBDU CTB
API# 30-025-39406
Case # 1RP-5789

Background:

On October 12, 2019 a release occurred due to a plugged filter on an air compressor resulting in the loss of fluid. The release area is located north of Eunice New Mexico (GPS Coordinates 32.489149, -103.129060) in unit letter P section 11 Township 21S Range 37E. A search of NMOSE and USGS wells of record was conducted to determine the depth of groundwater beneath the release. The nearest well of record indicates that the depth of groundwater beneath the release is 60 feet below ground surface.

On November 25, 2019 Apache Corporation collected samples utilizing a backhoe to a depth of 2 feet below ground surface. Samples were collected and field titrated for chlorides and representative samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory analysis indicated that hydrocarbons were above table one standards for releases 51 to 100 feet to groundwater. On January 21, 2020 Apache Corporation continued delineation with depth utilizing a backhoe and submitted all samples to a commercial laboratory for analysis of TPH and BTEX.

Remediation Plan:

Upon review of the vertical data collected Apache Corporation proposes that the area in the vicinity of SP 1 be excavated to a depth of 4 feet below ground surface. The area in the vicinity of SP 2, 3, and 4 be excavated to a depth of 3 feet below ground surface. Once the excavation is complete 5 point bottom composite samples will be collected not to exceed 500 square feet and 5 point wall composite samples will be collected not to exceed 200 square feet. All excavated material (approximately 1400 cubic yards) will be disposed of at a NMOCD approved facility. Once laboratory analysis meet table one closure criteria the excavation will be backfilled with clean imported topsoil and contoured to the surrounding area. The disturbed area will be seeded in consultation with the private surface landowner. Apache Corporation will complete remediation activities within 90 days of NMOCD approval of the plan.

Enclosed: C-141, Groundwater Data, Maps, Sample Data, Laboratory Analysis, Field Notes

Submitted by;

Bruce Baker

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982

Off# 575-393-7106

District I
1625 N. French Dr., Hobbs, NM 88240
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Form C-141
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Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Incident ID	
District RP	
Facility ID	
Application ID	

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Surface Owner: State Federal Tribal Private (Name: Bryant, James Allan)

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State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release is greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Via email given to NM OCD by Jeff Broom, Environmental Technician, Apache Corporation	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Jeff Broom</u> Title: <u>Environmental Technician</u>
Signature:  Date: <u>10/24/2019</u>
Email: <u>Jeffrey.Broom@apachecorp.com</u> Telephone: <u>(432) 664-4677</u>
OCD Only Received by: _____ Date: _____

Volume Calculation

1,292 cubic feet of soil contamination X 7.48 gallons per cubic foot = 9,664 gallons/42 gallons to a barrel=230 barrels X .33 soil porosity= 76 barrels fluid in soil + 15 barrels recovered = 91 barrels total loss.

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>60</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 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Bruce BAKER Title: Environmental Tech. SR.
 Signature: Bruce Baker Date: 1-23-20
 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: Bruce Baker Title: Environmental Tech SR.
 Signature: Bruce Baker Date: 1-23-20
 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: _____





New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
CP 01221	POD1	4	4	4	11	21S	37E	676254	3588506

Driller License: 1711	Driller Company: STRAUB CORPORATION	
Driller Name: MARTIN STRAUB		
Drill Start Date: 11/07/2013	Drill Finish Date: 11/07/2013	Plug Date:
Log File Date: 12/09/2013	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 4.00	Depth Well: 75 feet	Depth Water: 60 feet

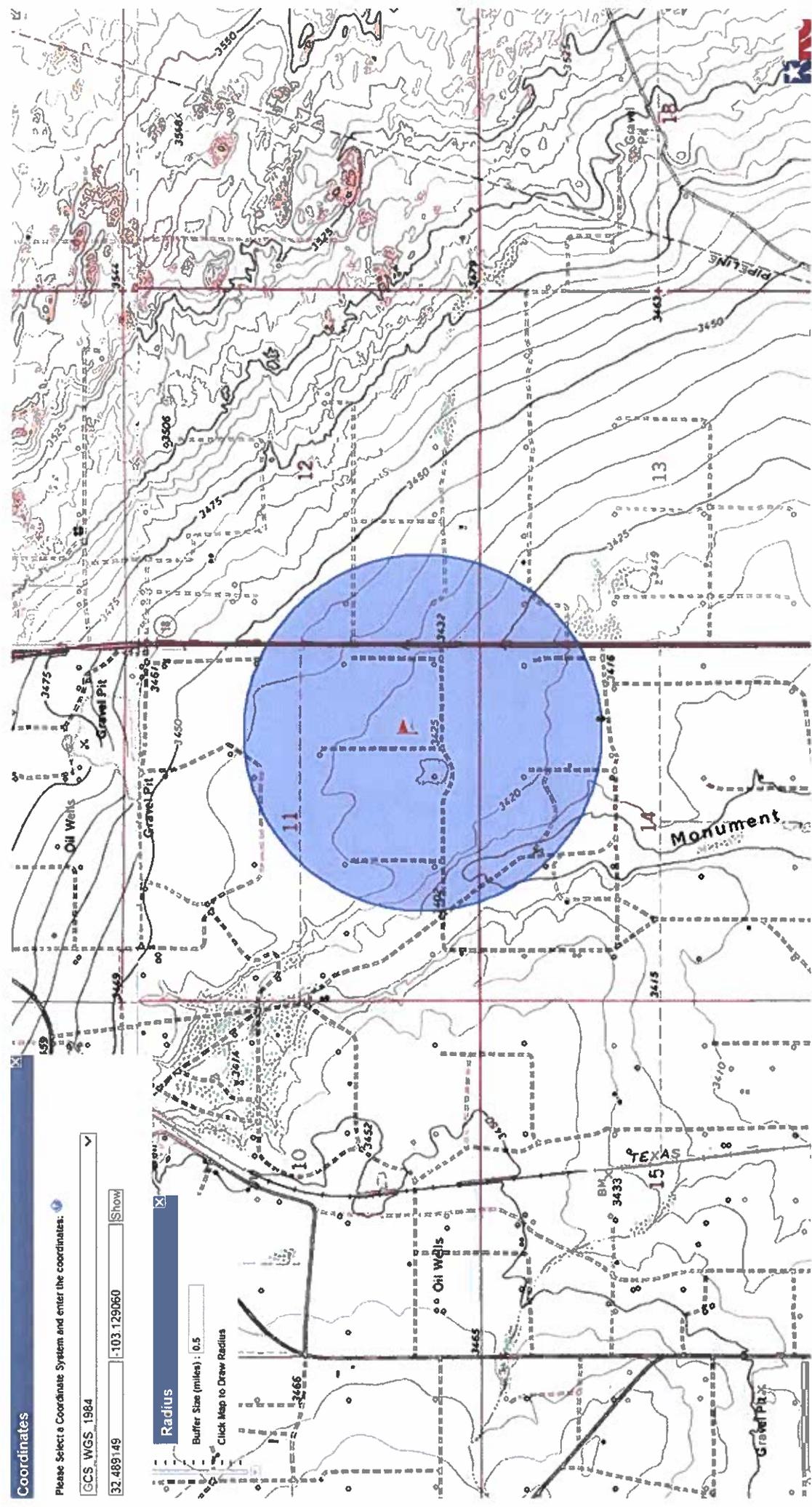
Water Bearing Stratifications:	Top	Bottom	Description
	60	66	Sandstone/Gravel/Conglomerate
	66	75	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	50	75

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

1/23/20 10:00 AM

POINT OF DIVERSION SUMMARY





E8DU CTB

Sample Pt.	Depth	Field CL	Lab CL	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Sample Date	GPS
1	Surface	1,811											32.489152 -103.129026
1	1'	861	560	6.48	36.6	17.5	43.9		852	10800	1140	11/25/2019	
1	2'			6.65	39.8	20.9	90.2	158	1890	5090	631	1/21/2020	
1	3'			0.134	1.08	1.36	4.72	7.29	116	741	78.9	1/21/2020	
1	4'			<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	13.9	<10.0	1/21/2020	
2	Surface	3,149	2960	1.21	11.5	10.2	32.4		340	47400	8840	11/25/2019	32.489009 -103.129059
2	2'	511	ND	0.0507	0.0471	0.108	0.468		ND	798	167	11/25/2019	
2	3'	209		<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	<10.0	<10.0	1/21/2020	
2	4'			<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	<10.0	<10.0	1/21/2020	
3	Surface	4,842	4890	1.05	16.2	12	42.6		401	32800	4840	11/25/2019	32.48852 -103.129061
3	1'	742											
3	2'	902	557	ND	10.1	7.47	23.8		233	11200	1560	11/25/2019	
3	3'			<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	<10.0	<10.0	1/21/2020	
3	4'			<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	<10.0	<10.0	1/21/2020	
4	Surface	3,471	3050	0.151	1.47	0.985	7.46		99.7	38600	6900	11/25/2019	32.488707 -103.129057
4	1'	1,046											
4	2'	599	565	ND	0.0925	0.612	1.44		30.8	2530	350	11/25/2019	
4	3'			<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	<10.0	<10.0	1/21/2020	
4	4'			<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	<10.0	<10.0	1/21/2020	



Analytical Report

Report Summary

Client: Apache Corp.

Samples Received: 12/1/2019

Job Number: 19054-0003

Work Order: P911125

Project Name/Location: EBDU CTB

Report Reviewed By:

Date: 12/3/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1665

24 Hour Emergency Response Phone (800) 362-1879

envirotech-inc.com
Labadmin@envirotech-inc.com



Apache Corp.	Project Name:	EBDU CTB	Reported: 12/03/19 13:43
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Jeff Broom	

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-Surf	P911125-01A	Soil	11/25/19	12/01/19	Glass Jar, 4 oz.
SP1-1'	P911125-02A	Soil	11/25/19	12/01/19	Glass Jar, 4 oz.
SP2-Surf	P911125-03A	Soil	11/25/19	12/01/19	Glass Jar, 4 oz.
SP2-2'	P911125-04A	Soil	11/25/19	12/01/19	Glass Jar, 4 oz.
SP3-Surf	P911125-05A	Soil	11/25/19	12/01/19	Glass Jar, 4 oz.
SP3-2'	P911125-06A	Soil	11/25/19	12/01/19	Glass Jar, 4 oz.
SP4-Surf	P911125-07A	Soil	11/25/19	12/01/19	Glass Jar, 4 oz.
SP4-2'	P911125-08A	Soil	11/25/19	12/01/19	Glass Jar, 4 oz.

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Apache Corp. PO Box 1058 Hobbs NM, 88240	Project Name: EBDU CTB Project Number: 19054-0003 Project Manager: Jeff Broom	Reported: 12/03/19 13:43
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**SP1-1'
P911125-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	6.48	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
Toluene	36.6	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
Ethylbenzene	17.5	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
p,m-Xylene	24.7	0.500	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
o-Xylene	19.2	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
Total Xylenes	43.9	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene- <i>PHD</i>		100 %		50-150	1949005	12/01/19	12/02/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	10800	250	mg/kg	10	1948020	11/27/19	12/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	1140	500	mg/kg	10	1948020	11/27/19	12/03/19	EPA 8015D	
Surrogate: <i>n</i> -Nonane		706 %		50-200	1948020	11/27/19	12/03/19	EPA 8015D	S3

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	852	200	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene- <i>FID</i>		93.7 %		50-150	1949005	12/01/19	12/02/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	560	20.0	mg/kg	1	1949002	12/01/19	12/02/19	EPA 300.0-9056A	
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**SP2-Surf
P911125-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	1.21	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
Toluene	11.5	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
Ethylbenzene	10.2	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
p,m-Xylene	19.9	0.500	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
o-Xylene	12.5	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
Total Xylenes	32.4	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	

Surrogate: 4-Bromochlorobenzene-PID 103 % 50-150 1949005 12/01/19 12/02/19 EPA 8021B

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	47400	2500	mg/kg	100	1948020	11/27/19	12/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	8840	5000	mg/kg	100	1948020	11/27/19	12/03/19	EPA 8015D	

Surrogate: n-Nonane 547 % 50-200 1948020 11/27/19 12/03/19 EPA 8015D S3

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	340	200	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8015D	
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Surrogate: 1-Chloro-4-fluorobenzene-FID 91.8 % 50-150 1949005 12/01/19 12/02/19 EPA 8015D

Anions by 300.0/9056A

Chloride	2960	40.0	mg/kg	2	1949002	12/01/19	12/02/19	EPA 300.0/9056A	
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**SP2-2'
P911125-04 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
Toluene	0.0507	0.0250	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
Ethylbenzene	0.0471	0.0250	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
p,m-Xylene	0.108	0.0500	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
o-Xylene	0.360	0.0250	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
Total Xylenes	0.468	0.0250	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	1949005	12/01/19	12/02/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	798	25.0	mg/kg	1	1948020	11/27/19	12/02/19	EPA 8015D	
Oil Range Organics (C28-C40)	167	50.0	mg/kg	1	1948020	11/27/19	12/02/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		114 %		50-200	1948020	11/27/19	12/02/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %		50-150	1949005	12/01/19	12/02/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1949002	12/01/19	12/02/19	EPA 300.0/9056A	

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**SP3-Surf
P911125-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	1.05	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
Toluene	16.2	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
Ethylbenzene	12.0	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
p,m-Xylene	28.9	0.500	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
o-Xylene	13.6	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
Total Xylenes	42.6	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	1949005	12/01/19	12/02/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	32800	500	mg/kg	20	1948020	11/27/19	12/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	4840	1000	mg/kg	20	1948020	11/27/19	12/03/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		748 %		50-200	1948020	11/27/19	12/03/19	EPA 8015D	N3

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	401	200	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.7 %		50-150	1949005	12/01/19	12/02/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	4890	100	mg/kg	5	1949002	12/01/19	12/02/19	EPA 300.0/9056A	
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SP3-2'
P911125-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
Toluene	10.1	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
Ethylbenzene	7.47	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
p,m-Xylene	14.7	0.500	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
o-Xylene	9.12	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
Total Xylenes	23.8	0.250	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PIID</i>		101 %		50-150	1949005	12/01/19	12/02/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	11200	500	mg/kg	20	1948020	11/27/19	12/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	1560	1000	mg/kg	20	1948020	11/27/19	12/03/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		345 %		50-200	1948020	11/27/19	12/03/19	EPA 8015D	S3
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	233	200	mg/kg	10	1949005	12/01/19	12/02/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.6 %		50-150	1949005	12/01/19	12/02/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	557	20.0	mg/kg	1	1949002	12/01/19	12/02/19	EPA 300.0/9056A	

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**SP4-Surf
P911125-07 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	0.151	0.0250	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
Toluene	1.47	0.0250	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
Ethylbenzene	0.985	0.0250	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
p,m-Xylene	2.56	0.0500	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
o-Xylene	4.90	0.0250	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
Total Xylenes	7.46	0.0250	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PHD</i>		115 %		50-150	1949005	12/01/19	12/02/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	38600	500	mg/kg	20	1948020	11/27/19	12/02/19	EPA 8015D	
Oil Range Organics (C28-C40)	6900	1000	mg/kg	20	1948020	11/27/19	12/02/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		302 %		50-200	1948020	11/27/19	12/02/19	EPA 8015D	S3
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	99.7	20.0	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FHD</i>		96.0 %		50-150	1949005	12/01/19	12/02/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	3050	40.0	mg/kg	2	1949002	12/01/19	12/02/19	EPA 300.0/9056A	

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**SP4-2'
P911125-08 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatiles Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
Toluene	0.0925	0.0250	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
Ethylbenzene	0.612	0.0250	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
p,m-Xylene	0.169	0.0500	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
o-Xylene	1.27	0.0250	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
Total Xylenes	1.44	0.0250	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8021B	
<i>Surrogate 4-Bromochlorobenzene-PHD</i>		108 %		50-150	1949005	12/01/19	12/02/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	2530	25.0	mg/kg	1	1948020	11/27/19	12/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	350	50.0	mg/kg	1	1948020	11/27/19	12/03/19	EPA 8015D	
<i>Surrogate n-Nonane</i>		144 %		50-200	1948020	11/27/19	12/03/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	30.8	20.0	mg/kg	1	1949005	12/01/19	12/02/19	EPA 8015D	
<i>Surrogate 1-Chloro-4-fluorobenzene-PHD</i>		89.4 %		50-150	1949005	12/01/19	12/02/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	565	20.0	mg/kg	1	1949002	12/01/19	12/02/19	EPA 300.0/9056A	
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Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1949005 - Purge and Trap EPA 5030A

Blank (1949005-BLK1)		Prepared 12/02/19 0 Analyzed: 12/02/19 1								
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.06		"	8.00		101	50-150			

LCS (1949005-BS1)		Prepared 12/02/19 0 Analyzed: 12/02/19 2								
Benzene	5.17	0.0250	mg/kg	5.00		103	70-130			
Toluene	5.29	0.0250	"	5.00		106	70-130			
Ethylbenzene	5.22	0.0250	"	5.00		104	70-130			
p,m-Xylene	10.4	0.0500	"	10.0		104	70-130			
o-Xylene	5.20	0.0250	"	5.00		104	70-130			
Total Xylenes	15.6	0.0250	"	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.24		"	8.00		103	50-150			

Matrix Spike (1949005-MS1)		Source: P911126-01		Prepared 12/02/19 0 Analyzed: 12/03/19 0						
Benzene	5.22	0.0250	mg/kg	5.00	ND	104	54.3-133			
Toluene	5.34	0.0250	"	5.00	ND	107	61.4-130			
Ethylbenzene	5.28	0.0250	"	5.00	ND	106	61.4-133			
p,m-Xylene	10.5	0.0500	"	10.0	ND	105	63.3-131			
o-Xylene	5.23	0.0250	"	5.00	ND	105	63.3-131			
Total Xylenes	15.7	0.0250	"	15.0	ND	105	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.23		"	8.00		103	50-150			

Matrix Spike Dup (1949005-MSD1)		Source: P911126-01		Prepared 12/02/19 0 Analyzed: 12/03/19 0						
Benzene	5.13	0.0250	mg/kg	5.00	ND	103	54.3-133	1.70	20	
Toluene	5.26	0.0250	"	5.00	ND	105	61.4-130	1.48	20	
Ethylbenzene	5.18	0.0250	"	5.00	ND	104	61.4-133	1.74	20	
p,m-Xylene	10.3	0.0500	"	10.0	ND	103	63.3-131	1.74	20	
o-Xylene	5.16	0.0250	"	5.00	ND	103	63.3-131	1.38	20	
Total Xylenes	15.5	0.0250	"	15.0	ND	103	63.3-131	1.62	20	
Surrogate: 4-Bromochlorobenzene-PID	8.27		"	8.00		103	50-150			

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Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1948020 - DRO Extraction EPA 3570

Blank (1948020-BLK1)				Prepared: 11/27/19 Analyzed: 12/02/19						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	47.1		"	50.0		94.2	50-200			
LCS (1948020-BS1)				Prepared: 11/27/19 Analyzed: 12/02/19						
Diesel Range Organics (C10-C28)	460	25.0	mg/kg	500		92.0	38-132			
Surrogate: n-Nonane	47.8		"	50.0		95.6	50-200			
Matrix Spike (1948020-MS1)				Source: P911123-01		Prepared: 11/27/19 Analyzed: 12/02/19				
Diesel Range Organics (C10-C28)	525	25.0	mg/kg	500	ND	105	38-132			
Surrogate: n-Nonane	52.0		"	50.0		104	50-200			
Matrix Spike Dup (1948020-MSD1)				Source: P911123-01		Prepared: 11/27/19 Analyzed: 12/02/19				
Diesel Range Organics (C10-C28)	596	25.0	mg/kg	500	ND	119	38-132	12.7	20	
Surrogate: n-Nonane	56.7		"	50.0		113	50-200			

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Apache Corp. PO Box 1058 Hobbs NM, 88240	Project Name: EBDU CTB Project Number: 19054-0003 Project Manager: Jeff Broom	Reported: 12/03/19 13:43
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Nonhalogenated Organics by 8015 - GRO - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1949005 - Purge and Trap EPA 5030A

Blank (1949005-BLK1)				Prepared: 12/02/19 0 Analyzed: 12/02/19 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.03			8.00		88.2	50-150			
LCS (1949005-BS2)				Prepared: 12/02/19 0 Analyzed: 12/03/19 0						
Gasoline Range Organics (C6-C10)	48.8	20.0	mg/kg	50.0	ND	97.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01			8.00		87.7	50-150			
Matrix Spike (1949005-MS2)				Source: P911126-01		Prepared: 12/02/19 0 Analyzed: 12/03/19 0				
Gasoline Range Organics (C6-C10)	50.2	20.0	mg/kg	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07			8.00		88.4	50-150			
Matrix Spike Dup (1949005-MSD2)				Source: P911126-01		Prepared: 12/02/19 0 Analyzed: 12/03/19 0				
Gasoline Range Organics (C6-C10)	49.5	20.0	mg/kg	50.0	ND	98.9	70-130	1.50	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02			8.00		87.8	50-150			

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Apache Corp. PO Box 1058 Hobbs NM, 88240	Project Name: EBDU CTB Project Number: 19054-0003 Project Manager: Jeff Broom	Reported: 12/03/19 13:43
--	---	-----------------------------

Anions by 300.0/9056A - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1949002 - Anion Extraction EPA 300.0/9056A

Blank (1949002-BLK1)				Prepared: 12/01/19 0 Analyzed: 12/02/19 0						
Chloride	ND	20.0	mg/kg							
LCS (1949002-BS1)				Prepared: 12/01/19 0 Analyzed: 12/02/19 1						
Chloride	247	20.0	mg/kg	250		98.8	90-110			
Matrix Spike (1949002-MS1)				Prepared: 12/01/19 0 Analyzed: 12/02/19 1						
Chloride	2590	20.0	mg/kg	250	2070	208	80-120			M2
Matrix Spike Dup (1949002-MSD1)				Prepared: 12/01/19 0 Analyzed: 12/02/19 1						
Chloride	2310	20.0	mg/kg	250	2070	92.7	80-120	11.8	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Apache Corp.	Project Name	EBDU CTB	Reported: 12/03/19 13:43
PO Box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Jeff Broom	

Notes and Definitions

- S3 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise

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Project Information

Chain of Custody

Client: <u>Apache</u> Project: <u>ERDU CTB</u> Project Manager: <u>Jeff Broom</u> Address: City, State, Zip Phone: Email: <u>Larry Bayer@apachecorp.org</u>		Report Attention Report due by: <u>Hungry Horse</u> Attention: <u>Traci Jennings</u> Address: <u>4024 Plains Hwy</u> City, State, Zip: <u>Lawington NM 88201</u> Phone: <u>575-390-1761</u> Email: <u>TJennings@hungry-horse.com</u>		Lab Use Only Lab WO# <u>P 91125</u> Job Number <u>19054-0003</u>		TAT 1D <input type="checkbox"/> 3D <input checked="" type="checkbox"/>		EPA Program RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/>		
Analysis and Method								State NM <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/>		

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRU/DRO by 8015	BTEX by 8021	VOC by 8016	metals by 8010	Chloride 300.0	Remarks
9:15	11/25/19	S	1	SP1 - surf	1	/	/	/	/	/	/	
9:22	11/25			SP1 - 1'	2	/	/	/	/	/	/	
9:40	11/25			SP2 - Surf	3	/	/	/	/	/	/	
10:07	11/25			SP2 - 2'	4	/	/	/	/	/	/	
9:46	11/25			SP3 - surf	5	/	/	/	/	/	/	
10:48	11/25			SP3 - 2'	6	/	/	/	/	/	/	
9:49	11/25			SP4 - surf	7	/	/	/	/	/	/	
11:12	11/25			SP4 - 2'	8	/	/	/	/	/	/	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4.0</u> <u>visible ice</u>
<i>[Signature]</i>	11/25/19	2:00	<i>[Signature]</i>	11-26-19	11:45	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	11-26-19	1355	<i>[Signature]</i>	11-29-19	1115	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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 24 Hour Emergency Response Phone: (505) 362-1873

Ph: (505) 632-4831 Fax: (505) 632-1865
 labadm@envirotechiro.com

11-29-19 1115 *[Signature]* 12-01-19 8:00

Project Information

Chain of Custody

Client: Apache Project: ERDU CTR Project Manager: Jeff Broom Address: City, State, Zip: Phone: Email: Larry Bower@apachesora.com				Report Attention: Hungry Horse Attention: Traci Jennings Address: 4024 Plains Hwy City, State, Zip: Livingston NM 87200 Phone: 575-390-1761 Email: TJennings@hungry-horse.com				Lab Use Only Lab:WO# P911125 Job Number 19054-0003				TAT 1D 3D		EPA Program RCRA CWA SDWA					
								Analysis and Method DRO/DND by 8015 GAO/DND by 8015 BTEX by 8021 TOC by 8016 Ammonia by 8010 Chloride 300.0				State NM CO UT AZ							
Time Sampled	Date Sampled	Matrix	No. Containers	Sample ID	Lab Number														
4:15	11/25/19	S	1	SP1 - surf	1	/	/	/	/	/	/	/	/	/	/	/	/	/	Cancelled per Client req
9:22	11/25			SP1 - 1'	2	/	/	/	/	/	/	/	/	/	/	/	/	/	
9:40	11/25			SP2 - Surf	3	/	/	/	/	/	/	/	/	/	/	/	/	/	
10:07	11/25			SP2 - 2'	4	/	/	/	/	/	/	/	/	/	/	/	/	/	
9:46	11/25			SP3 - surf	5	/	/	/	/	/	/	/	/	/	/	/	/	/	
10:48	11/25			SP3 - 2'	6	/	/	/	/	/	/	/	/	/	/	/	/	/	
9:44	11/25			SP4 - surf	7	/	/	/	/	/	/	/	/	/	/	/	/	/	
11:12	11/25			SP4 - 2'	8	/	/	/	/	/	/	/	/	/	/	/	/	/	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received and held in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) _____	Date: 11/25/19	Time: 2:00	Received by: (Signature) _____	Date: 11-26-19	Time: 11:45	Lab Use Only
Relinquished by: (Signature) _____	Date: 11-26-19	Time: 13:55	Received by: (Signature) _____	Date: 11-29-19	Time: 11:15	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.						

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 PH (505) 632-6881 FX (505) 632-1865
 lab@envirotech.com



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

January 22, 2020

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

RE: EBDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/21/20 10:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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,

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:	01/21/2020	Sampling Date:	01/21/2020
Reported:	01/22/2020	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ 2' (H000199-01)

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	6.65	0.500	01/22/2020	ND	1.92	96.1	2.00	0.934	QM-07	
Toluene*	39.8	0.500	01/22/2020	ND	2.01	101	2.00	0.236	QM-07	
Ethylbenzene*	20.9	0.500	01/22/2020	ND	1.97	98.4	2.00	0.0633	QM-07	
Total Xylenes*	90.2	1.50	01/22/2020	ND	5.82	96.9	6.00	0.00936	QM-07	
Total BTEX	158	3.00	01/22/2020	ND					QM-07	

Surrogate: 4-Bromofluorobenzene (PIE) 142 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1890	50.0	01/22/2020	ND	206	103	200	1.03		
DRO >C10-C28*	5090	50.0	01/22/2020	ND	218	109	200	1.06		
EXT DRO >C28-C36	631	50.0	01/22/2020	ND						

Surrogate: 1-Chlorooctane 274 % 41-142

Surrogate: 1-Chlorooctadecane 199 % 37.6-147

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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:	01/21/2020	Sampling Date:	01/21/2020
Reported:	01/22/2020	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ 3' (H000199-02)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.134	0.050	01/22/2020	ND	1.92	96.1	2.00	0.934	
Toluene*	1.08	0.050	01/22/2020	ND	2.01	101	2.00	0.236	
Ethylbenzene*	1.36	0.050	01/22/2020	ND	1.97	98.4	2.00	0.0633	
Total Xylenes*	4.72	0.150	01/22/2020	ND	5.82	96.9	6.00	0.00936	
Total BTEX	7.29	0.300	01/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 168 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	116	10.0	01/22/2020	ND	206	103	200	1.03	
DRO >C10-C28*	741	10.0	01/22/2020	ND	218	109	200	1.06	
EXT DRO >C28-C36	78.9	10.0	01/22/2020	ND					

Surrogate: 1-Chlorooctane 124 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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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:	01/21/2020	Sampling Date:	01/21/2020
Reported:	01/22/2020	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ 4' (H000199-03)

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	01/22/2020	ND	1.92	96.1	2.00	0.934		
Toluene*	<0.050	0.050	01/22/2020	ND	2.01	101	2.00	0.236		
Ethylbenzene*	<0.050	0.050	01/22/2020	ND	1.97	98.4	2.00	0.0633		
Total Xylenes*	<0.150	0.150	01/22/2020	ND	5.82	96.9	6.00	0.00936		
Total BTEX	<0.300	0.300	01/22/2020	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 96.3 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/22/2020	ND	206	103	200	1.03		
DRO >C10-C28*	13.9	10.0	01/22/2020	ND	218	109	200	1.06		
EXT DRO >C28-C36	<10.0	10.0	01/22/2020	ND						

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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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:	01/21/2020	Sampling Date:	01/21/2020
Reported:	01/22/2020	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ 3' (H000199-04)

BTEX 80218		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2020	ND	1.92	96.1	2.00	0.934		
Toluene*	<0.050	0.050	01/21/2020	ND	2.01	101	2.00	0.236		
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.97	98.4	2.00	0.0633		
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.82	96.9	6.00	0.00936		
Total BTEX	<0.300	0.300	01/21/2020	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 95.9 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/22/2020	ND	206	103	200	1.03		
DRO >C10-C28*	<10.0	10.0	01/22/2020	ND	218	109	200	1.06		
EXT DRO >C28-C36	<10.0	10.0	01/22/2020	ND						

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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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: 01/21/2020
Reported: 01/22/2020
Project Name: EBDU CTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN
Sampling Date: 01/21/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 4' (H000199-05)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 95.8% 73.3-129

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, and EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 101% 41-142

Surrogate: 1-Chlorooctadecane 105% 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Signature of 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:	01/21/2020	Sampling Date:	01/21/2020
Reported:	01/22/2020	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 3' (H000199-06)

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	01/21/2020	ND	1.92	96.1	2.00	0.934		
Toluene*	<0.050	0.050	01/21/2020	ND	2.01	101	2.00	0.236		
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.97	98.4	2.00	0.0633		
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.82	96.9	6.00	0.00936		
Total BTEX	<0.300	0.300	01/21/2020	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 96.5 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/22/2020	ND	206	103	200	1.03		
DRO >C10-C28*	<10.0	10.0	01/22/2020	ND	218	109	200	1.06		
EXT DRO >C28-C36	<10.0	10.0	01/22/2020	ND						

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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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: 01/21/2020 Sampling Date: 01/21/2020
Reported: 01/22/2020 Sampling Type: Soil
Project Name: EBDU CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker
Project Location: NONE GIVEN

Sample ID: SP 3 @ 4' (H000199-07)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIC) 93.6% 73.3-129

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10*, DRO >C10-C28*, and EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 105% 41-142

Surrogate: 1-Chlorooctadecane 109% 37.6-147

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Celey D. Keene (signature)

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:	01/21/2020	Sampling Date:	01/21/2020
Reported:	01/22/2020	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 4 @ 3' (H000199-08)

BTEX 80218		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2020	ND	1.92	96.1	2.00	0.934		
Toluene*	<0.050	0.050	01/22/2020	ND	2.01	101	2.00	0.236		
Ethylbenzene*	<0.050	0.050	01/22/2020	ND	1.97	98.4	2.00	0.0633		
Total Xylenes*	<0.150	0.150	01/22/2020	ND	5.82	96.9	6.00	0.00936		
Total BTEX	<0.300	0.300	01/22/2020	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 95.5 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/22/2020	ND	206	103	200	1.03		
DRO >C10-C28*	<10.0	10.0	01/22/2020	ND	218	109	200	1.06		
EXT DRO >C28-C36	<10.0	10.0	01/22/2020	ND						

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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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: 01/21/2020
 Reported: 01/22/2020
 Project Name: EBDU CTB
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 4' (H000199-09)

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	01/22/2020	ND	1.92	96.1	2.00	0.934		
Toluene*	<0.050	0.050	01/22/2020	ND	2.01	101	2.00	0.236		
Ethylbenzene*	<0.050	0.050	01/22/2020	ND	1.97	98.4	2.00	0.0633		
Total Xylenes*	<0.150	0.150	01/22/2020	ND	5.82	96.9	6.00	0.00936		
Total BTEX	<0.300	0.300	01/22/2020	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 96.0 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/22/2020	ND	206	103	200	1.03		
DRO >C10-C28*	<10.0	10.0	01/22/2020	ND	218	109	200	1.06		
EXT DRO >C28-C36	<10.0	10.0	01/22/2020	ND						

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Notes and Definitions

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

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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: *Abate Corporation*
 Project Manager: *Paul Baker*
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: *EBM CB*
 Project Location: *EBM CB*
 Sampler Name: *J. Brown*
 P.O. #: _____ Company: _____
 Attn: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<i>AB001A</i>	<i>SP1 @ 2'</i>									<i>1/2/04</i>		<i>GTEx</i>
	<i>SP1 @ 3'</i>											
	<i>SP1 @ 4'</i>											
	<i>SP2 @ 3'</i>											
	<i>SP2 @ 4'</i>											
	<i>SP3 @ 3'</i>											
	<i>SP3 @ 4'</i>											
	<i>SP4 @ 3'</i>											
	<i>SP4 @ 4'</i>											

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Relinquished By: *JTB Brown*
 Date: *1/2/04*
 Time: *10:42*
 Received By: *Janora Olabisi*
 Date: _____
 Time: _____

Delivered By: (Circle One) UPS Bus Other: _____
 Observed Temp. °C: *30*
 Corrected Temp. °C: _____
 Sample Condition: Intact Cool Yes No No
 CHECKED BY: (Initials) *YO*
 Turnaround Time: Standard Rush Add'l Phone #: _____
 Thermometer ID: *#3-113*
 Correction Factor: *0.0*
 Bacteria (only) Sample Condition: Intact Cool Yes No No No
 Corrected Temp. °C: _____

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

JANUARY • FEBRUARY • MARCH • APRIL • MAY • JUNE • JULY • AUGUST • SEPTEMBER • OCTOBER • NOVEMBER • DECEMBER

MONDAY • TUESDAY • WEDNESDAY • THURSDAY • FRIDAY • SATURDAY • SUNDAY

- EBDU CTB 11/25/19 -

SP1 @ Surface -

$$10.0 / 30.2 = 3.02 = .60 = 1,811$$

SP1 @ 1'

$$10.2 / 30.3 = 2.97 = .29 = 861$$

SP2 @ Surface -

$$10.1 / 30.3 = 3 = 1.05 = 3,149$$

SP2 @ 2'

$$10.6 / 30.2 = 2.84 = .18 = 511 \checkmark$$

SP2 @ 3'

$$10.1 / 30.2 = 2.99 = .07 = 209 \checkmark$$

SP3 @ Surface -

$$10.1 / 30.2 = 2.99 = 1.62 = 4,842$$

SP3 @ 1'

$$10.2 / 30.3 = 2.97 = .25 = 742$$

SP3 @ 2'

$$10.0 / 30.1 = 3.01 = .30 = 902$$

SP4 @ Surface -

$$10.0 / 30.2 = 3.02 = 1.15 = 3,471$$

SP4 @ 1'

$$10.1 / 30.2 = 2.99 = .35 = 1,046$$

SP4 @ 2'

$$10.0 / 30.0 = 3 = .20 = 599 \checkmark$$

APACHE CORPORATION

EBDU CTB
CLOSURE SAMPLE MAP

Page 51 of 130

Legend

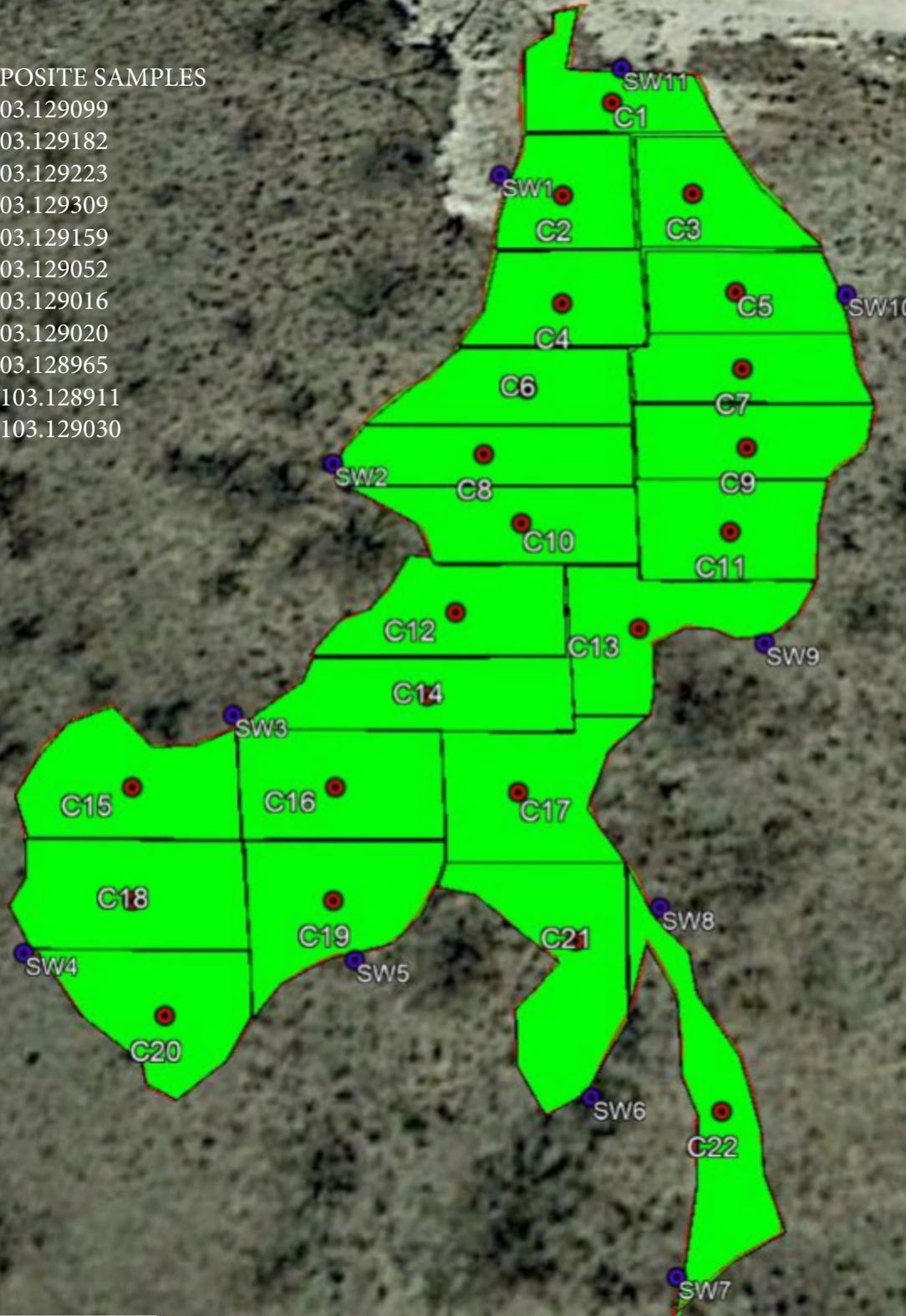
- EBDU CTB EXCAVATION AREA
- HOR COMPOSITE SAMPLES
- VERT COMPOSITE SAMPLES

HORIZONTAL COMPOSITE SAMPLES

- CP SW1: 32.489122 -103.129099
- CP SW2: 32.488971 -103.129182
- CP SW3: 32.488857 -103.129223
- CP SW4: 32.488761 -103.129309
- CP SW5: 32.488759 -103.129159
- CP SW6: 32.488709 -103.129052
- CP SW7: 32.488648 -103.129016
- CP SW8: 32.488779 -103.129020
- CP SW9: 32.488888 -103.128965
- CP SW10: 32.489057 -103.128911
- CP SW11: 32.489183 -103.129030

VERTICAL COMPOSITE SAMPLES

- CP1: 32.489163 -103.129036 (498 SQ.FT.)
- CP2: 32.489110 -103.129064 (495 SQ.FT.)
- CP3: 32.489111 -103.128992 (495 SQ.FT.)
- CP4: 32.489052 -103.129064 (493 SQ.FT.)
- CP5: 32.489058 -103.128971 (500 SQ.FT.)
- CP6: 32.489008 -103.129083 (499 SQ.FT.)
- CP7: 32.489018 -103.128969 (492 SQ.FT.)
- CP8: 32.488976 -103.129105 (494 SQ.FT.)
- CP9: 32.488979 -103.128969 (495 SQ.FT.)
- CP10: 32.488943 -103.129085 (486 SQ.FT.)
- CP11: 32.488939 -103.128979 (484 SQ.FT.)
- CP12: 32.488902 -103.129117(470 SQ.FT.)
- CP13: 32.488895 -103.129027 (497 SQ.FT.)
- CP14: 32.488865 -103.129130 (496 SQ.FT.)
- CP15: 32.488827 -103.129268 (491 SQ.FT.)
- CP16: 32.488827 -103.129172 (492 SQ.FT.)
- CP17: 32.488825 -103.129085 (484 SQ.FT.)
- CP18: 32.488782 -103.129262 (497 SQ.FT.)
- CP19: 32.488782 -103.129170 (450 SQ.FT.)
- CP20: 32.488738 -103.129242 (381 SQ.FT.)
- CP21: 32.488766 -103.129058 (495 SQ.FT.)
- CP22: 32.488704 -103.128995 (377 SQ.FT.)



70 ft

APACHE CORPORATION:

EBDU CTB

CLOSURE SAMPLES

SMP PT	DEPTH	FIELD CHL	LAB CHL	BENZENE	TOLUENE	ETHYLENZ ENE	TOTAL XYLENES	TOTAL BTEX	GRO	DRO	EXT DRO	TPH
CP 1	3'	700	688	<0.050	<0.050	0.093	0.478	0.571	34.3	942	216	1192.3
CP 1A	4'	720	816	<0.050	<0.050	<0.050	<0.150	<0.300	<10	20.9	<10	40.9
CP 2	4'-5'	300	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10	228	81.1	319.1
CP 3	3'	200	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10	59.4	17	86.4
CP 4	4'-5'	240	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10	12.7	<10	32.7
CP 5	3'	560	464	<0.050	<0.050	<0.050	<0.150	<0.300	<10	36.4	<10	56.4
CP 6	3'	480	368	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
CP 7	3'	240	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10	19.5	<10	39.5
CP 8	3'	200	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10	36.8	<10	56.9
CP 9	3'	300	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10	86.5	15.8	112.3
CP 9A	4'	N/A	N/A	>0.050	<0.050	<0.050	<0.150	<0.300	<10	17.3	<10	<40
CP 10	3'	240	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10	42.4	<10	62.4
CP 11	3'	200	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10	57.3	<10	77.3
CP 12	3'	100	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10	73.7	19.7	103.4
CP 12A	4'	N/A	N/A	<0.050	<0.050	<0.050	<0.150	<0.300	<10	71.5	17.3	<98.8
CP 12A	5'	N/A	688	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
CP 13	3'	60	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10	44.9	11.3	66.2
CP 14	3'	80	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10	57.2	11.6	78.8
CP 15	3'	140	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10	10.8	<10	30.8
CP 16	3'	520	480	<0.050	<0.050	<0.050	<0.150	<0.300	<10	31.9	<10	51.9
CP 17	3'	240	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10	89.7	21.1	120.8
CP 17A	4'	N/A	N/A	<0.050	<0.050	<0.050	<0.150	<0.300	<10	31.5	<10	<51.5
CP 18	3'	440	416	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
CP 19	3'	300	256	<0.050	<0.050	<0.050	<0.150	<0.300	<10	119	30.6	159.6
CP 19A	4'	N/A	N/A	<0.050	<0.050	<0.050	<0.150	<0.300	<10	15.4	<10	<35.4
CP 20	3'	320	256	<0.050	<0.050	<0.050	<0.150	<0.300	<10	26.6	12.5	49.1
CP 21	3'	400	368	<0.050	<0.050	<0.050	<0.150	<0.300	<10	76.3	20.9	107.2
CP 21A	4;	N/A	N/A	<0.050	<0.050	<0.050	<0.150	<0.300	<10	24.5	<10	<44.5
CP 22	3'	500	464	<0.050	<0.050	<0.050	<0.150	<0.300	<10	47.9	13.2	71.1
CP SW1		400	416	<0.050	<0.050	<0.050	<0.150	<0.300	<10	482	115	607

CP SW1A	1'	N/A	N/A	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
CP SW2		400	384	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
CP SW3		480	464	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
CP SW4		200	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10	67.6	32.6	110.2
CP SW4A	1'	N/A	N/A	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
CP SW5		200	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10	1290	312	1612
CP SW5A	1'	N/A	N/A	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30
CP SW6		240	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10	310	86.4	406.4
CP SW6A	1'	N/A	N/A	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	14.5	<34.5
CP SW7		240	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10	10.3	<10	<30.3
CP SW8		280	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10	786	221	1017
CP SW8A	1'	N/A	N/A	<0.050	<0.050	<0.050	<0.150	<0.300	<10	242	56	<308
CP SW8A	2'	N/A	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10	10.8	<10	<30.8
CP SW9		300	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10	1790	562	2362
CP SW9A	1'	N/A	N/A	<0.050	<0.050	<0.050	<0.150	<0.300	<10	29.8	<10	<49.8
CP SW10		200	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10	413	90.2	513.2
CP SW10A	1'	N/A	N/A	<0.050	<0.050	<0.050	<0.150	<0.300	<10	16	<10	<36
CP SW11		260	272	<0.050	<0.050	<0.050	<0.150	<0.300	145	1170	<10	1325
CP SW11A	1'	N/A	N/A	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30



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

January 14, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EBDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/13/21 16:46.

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". 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:	01/13/2021	Sampling Date:	01/13/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE #1 (H210084-01)

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	01/14/2021	ND	2.04	102	2.00	0.588	
Toluene*	<0.050	0.050	01/14/2021	ND	2.02	101	2.00	0.655	
Ethylbenzene*	0.093	0.050	01/14/2021	ND	1.98	98.8	2.00	0.457	
Total Xylenes*	0.478	0.150	01/14/2021	ND	5.80	96.6	6.00	0.294	
Total BTEX	0.571	0.300	01/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	688	16.0	01/14/2021	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*	34.3	10.0	01/14/2021	ND	220	110	200	0.0774	
DRO >C10-C28*	942	10.0	01/14/2021	ND	204	102	200	1.94	
EXT DRO >C28-C36	216	10.0	01/14/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 133 % 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:	01/13/2021	Sampling Date:	01/13/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE #2 (H210084-02)

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	01/14/2021	ND	2.04	102	2.00	0.588	
Toluene*	<0.050	0.050	01/14/2021	ND	2.02	101	2.00	0.655	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	1.98	98.8	2.00	0.457	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.80	96.6	6.00	0.294	
Total BTEX	<0.300	0.300	01/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	272	16.0	01/14/2021	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	01/14/2021	ND	220	110	200	0.0774	
DRO >C10-C28*	228	10.0	01/14/2021	ND	204	102	200	1.94	
EXT DRO >C28-C36	81.1	10.0	01/14/2021	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 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:	01/13/2021	Sampling Date:	01/13/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE #3 (H210084-03)

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	01/14/2021	ND	2.04	102	2.00	0.588	
Toluene*	<0.050	0.050	01/14/2021	ND	2.02	101	2.00	0.655	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	1.98	98.8	2.00	0.457	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.80	96.6	6.00	0.294	
Total BTEX	<0.300	0.300	01/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	160	16.0	01/14/2021	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	01/14/2021	ND	220	110	200	0.0774	
DRO >C10-C28*	59.4	10.0	01/14/2021	ND	204	102	200	1.94	
EXT DRO >C28-C36	17.0	10.0	01/14/2021	ND					

Surrogate: 1-Chlorooctane 97.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 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:	01/13/2021	Sampling Date:	01/13/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE #4 (H210084-04)

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	01/14/2021	ND	2.04	102	2.00	0.588	
Toluene*	<0.050	0.050	01/14/2021	ND	2.02	101	2.00	0.655	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	1.98	98.8	2.00	0.457	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.80	96.6	6.00	0.294	
Total BTEX	<0.300	0.300	01/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	208	16.0	01/14/2021	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	01/14/2021	ND	220	110	200	0.0774	
DRO >C10-C28*	12.7	10.0	01/14/2021	ND	204	102	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.2 % 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:	01/13/2021	Sampling Date:	01/13/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE #5 (H210084-05)

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	01/14/2021	ND	2.04	102	2.00	0.588	
Toluene*	<0.050	0.050	01/14/2021	ND	2.02	101	2.00	0.655	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	1.98	98.8	2.00	0.457	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.80	96.6	6.00	0.294	
Total BTEX	<0.300	0.300	01/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	464	16.0	01/14/2021	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	01/14/2021	ND	220	110	200	0.0774	
DRO >C10-C28*	36.4	10.0	01/14/2021	ND	204	102	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					

Surrogate: 1-Chlorooctane 97.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 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:	01/13/2021	Sampling Date:	01/13/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE #6 (H210084-06)

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	01/14/2021	ND	2.04	102	2.00	0.588	
Toluene*	<0.050	0.050	01/14/2021	ND	2.02	101	2.00	0.655	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	1.98	98.8	2.00	0.457	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.80	96.6	6.00	0.294	
Total BTEX	<0.300	0.300	01/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	368	16.0	01/14/2021	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	01/14/2021	ND	220	110	200	0.0774	
DRO >C10-C28*	<10.0	10.0	01/14/2021	ND	204	102	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	01/14/2021	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.3 % 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

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



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

RUSH!!

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: *Apache Collection*
 Project Manager: *Beace Baker*
 Address: *Hobbs* State: *NM* Zip: _____
 City: *Hobbs* State: *NM* Zip: _____
 Phone #: *1 (432) 631-6989* Fax #: _____
 Project #: _____ Project Owner: *Apache*
 Project Name: _____
 Project Location: *Q804 CTS*
 Sampler Name: *MARC RIVERA*

P.O. #: _____
 Company: *Apache*
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	STAX	TPH	CHLORIDE
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
<i>H210084</i>	<i>COMPOSITE #1</i>			<i>X</i>							<i>1-15-21</i>	<i>2:40</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>H210084</i>	<i>COMPOSITE #2</i>			<i>X</i>							<i>1-15-21</i>	<i>2:42</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>H210084</i>	<i>COMPOSITE #3</i>			<i>X</i>							<i>1-15-21</i>	<i>2:45</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>H210084</i>	<i>COMPOSITE #4</i>			<i>X</i>							<i>1-15-21</i>	<i>2:53</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>H210084</i>	<i>COMPOSITE #5</i>			<i>X</i>							<i>1-15-21</i>	<i>3:02</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>H210084</i>	<i>COMPOSITE #6</i>			<i>X</i>							<i>1-15-21</i>	<i>3:10</i>	<i>X</i>	<i>X</i>	<i>X</i>

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Relinquished By: *Marc Rivera* Date: *1-15-21*
 Received By: *Speli Jensen* Date: *1-15-21*
 Time: *2:40* Time: *2:42*

REMARKS: *Natalie@energystaffingllc.com*
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____

Delivered By: (Circle One) Observed Temp. °C *5.8* Sample Condition Intact Cool Yes No
 Sampler - UPS - Bus - Other: Corrected Temp. °C _____ Yes No

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



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

January 20, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EBDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/15/21 16:47.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 1A (H210101-01)

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	01/19/2021	ND	2.08	104	2.00	1.20		
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	1.19		
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.01	101	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/19/2021	ND	5.90	98.4	6.00	1.55		
Total BTEX	<0.300	0.300	01/19/2021	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	816	16.0	01/18/2021	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	01/19/2021	ND	247	124	200	2.57		
DRO >C10-C28*	20.9	10.0	01/19/2021	ND	244	122	200	4.26		
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND						

Surrogate: 1-Chlorooctane 78.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 70.6 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 7 (H210101-02)

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	01/19/2021	ND	2.08	104	2.00	1.20		
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	1.19		
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.01	101	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/19/2021	ND	5.90	98.4	6.00	1.55		
Total BTEX	<0.300	0.300	01/19/2021	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	208	16.0	01/18/2021	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	01/19/2021	ND	247	124	200	2.57		
DRO >C10-C28*	19.5	10.0	01/19/2021	ND	244	122	200	4.26		
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND						

Surrogate: 1-Chlorooctane 87.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.5 % 42.2-156

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* = Accredited Analyte

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 8 (H210101-03)

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	01/19/2021	ND	2.08	104	2.00	1.20		
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	1.19		
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.01	101	2.00	1.63		
Total Xylenes*	<0.150	0.150	01/19/2021	ND	5.90	98.4	6.00	1.55		
Total BTEX	<0.300	0.300	01/19/2021	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	112	16.0	01/18/2021	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	01/19/2021	ND	247	124	200	2.57		
DRO >C10-C28*	36.8	10.0	01/19/2021	ND	244	122	200	4.26		
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND						

Surrogate: 1-Chlorooctane 86.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.1 % 42.2-156

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 9 (H210101-04)

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	01/19/2021	ND	2.08	104	2.00	1.20	
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	1.19	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.01	101	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	5.90	98.4	6.00	1.55	
Total BTEX	<0.300	0.300	01/19/2021	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	272	16.0	01/18/2021	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	01/19/2021	ND	247	124	200	2.57	
DRO >C10-C28*	86.5	10.0	01/19/2021	ND	244	122	200	4.26	
EXT DRO >C28-C36	15.8	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 86.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.2 % 42.2-156

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 10 (H210101-05)

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	01/19/2021	ND	2.08	104	2.00	1.20	
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	1.19	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.01	101	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	5.90	98.4	6.00	1.55	
Total BTEX	<0.300	0.300	01/19/2021	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	224	16.0	01/18/2021	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	01/19/2021	ND	247	124	200	2.57	
DRO >C10-C28*	42.4	10.0	01/19/2021	ND	244	122	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 91.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.7 % 42.2-156

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 11 (H210101-06)

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	01/19/2021	ND	2.08	104	2.00	1.20	
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	1.19	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.01	101	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	5.90	98.4	6.00	1.55	
Total BTEX	<0.300	0.300	01/19/2021	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	160	16.0	01/18/2021	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	01/19/2021	ND	247	124	200	2.57	
DRO >C10-C28*	57.3	10.0	01/19/2021	ND	244	122	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 87.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.1 % 42.2-156

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 12 (H210101-07)

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	01/19/2021	ND	2.08	104	2.00	1.20	
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	1.19	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.01	101	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	5.90	98.4	6.00	1.55	
Total BTEX	<0.300	0.300	01/19/2021	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	80.0	16.0	01/18/2021	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	01/19/2021	ND	247	124	200	2.57	
DRO >C10-C28*	73.7	10.0	01/19/2021	ND	244	122	200	4.26	
EXT DRO >C28-C36	19.7	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.1 % 42.2-156

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 13 (H210101-08)

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	01/19/2021	ND	2.08	104	2.00	1.20	
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	1.19	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.01	101	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	5.90	98.4	6.00	1.55	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	01/18/2021	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	01/19/2021	ND	247	124	200	2.57	
DRO >C10-C28*	44.9	10.0	01/19/2021	ND	244	122	200	4.26	
EXT DRO >C28-C36	11.3	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.5 % 42.2-156

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 14 (H210101-09)

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	01/19/2021	ND	2.08	104	2.00	1.20	
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	1.19	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.01	101	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	5.90	98.4	6.00	1.55	
Total BTEX	<0.300	0.300	01/19/2021	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	64.0	16.0	01/18/2021	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	01/19/2021	ND	228	114	200	0.116	
DRO >C10-C28*	57.2	10.0	01/19/2021	ND	245	123	200	2.48	
EXT DRO >C28-C36	11.6	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 99.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.4 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 15 (H210101-10)

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	01/19/2021	ND	2.08	104	2.00	1.20	
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	1.19	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.01	101	2.00	1.63	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	5.90	98.4	6.00	1.55	
Total BTEX	<0.300	0.300	01/19/2021	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	128	16.0	01/18/2021	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	01/19/2021	ND	228	114	200	0.116	
DRO >C10-C28*	10.8	10.0	01/19/2021	ND	245	123	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.2 % 42.2-156

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 16 (H210101-11)

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	01/19/2021	ND	2.03	102	2.00	3.08	
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	3.39	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	3.18	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.32	105	6.00	3.05	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	480	16.0	01/18/2021	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	01/19/2021	ND	228	114	200	0.116	
DRO >C10-C28*	31.9	10.0	01/19/2021	ND	245	123	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 97.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.7 % 42.2-156

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 17 (H210101-12)

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	01/19/2021	ND	2.03	102	2.00	3.08	
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	3.39	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	3.18	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.32	105	6.00	3.05	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	224	16.0	01/18/2021	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	01/19/2021	ND	228	114	200	0.116	
DRO >C10-C28*	89.7	10.0	01/19/2021	ND	245	123	200	2.48	
EXT DRO >C28-C36	21.1	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.3 % 42.2-156

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 18 (H210101-13)

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	01/19/2021	ND	2.03	102	2.00	3.08	
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	3.39	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	3.18	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.32	105	6.00	3.05	
Total BTEX	<0.300	0.300	01/19/2021	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	416	16.0	01/18/2021	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	01/19/2021	ND	228	114	200	0.116	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	245	123	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 96.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.0 % 42.2-156

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 19 (H210101-14)

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	01/19/2021	ND	2.03	102	2.00	3.08	
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	3.39	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	3.18	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.32	105	6.00	3.05	
Total BTEX	<0.300	0.300	01/19/2021	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	256	16.0	01/18/2021	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	01/19/2021	ND	228	114	200	0.116	
DRO >C10-C28*	119	10.0	01/19/2021	ND	245	123	200	2.48	
EXT DRO >C28-C36	30.6	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 20 (H210101-15)

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	01/19/2021	ND	2.03	102	2.00	3.08	
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	3.39	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	3.18	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.32	105	6.00	3.05	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	256	16.0	01/18/2021	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	01/19/2021	ND	228	114	200	0.116	
DRO >C10-C28*	26.6	10.0	01/19/2021	ND	245	123	200	2.48	
EXT DRO >C28-C36	12.5	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 21 (H210101-16)

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	01/19/2021	ND	2.03	102	2.00	3.08	
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	3.39	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	3.18	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.32	105	6.00	3.05	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	368	16.0	01/18/2021	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	01/19/2021	ND	228	114	200	0.116	
DRO >C10-C28*	76.3	10.0	01/19/2021	ND	245	123	200	2.48	
EXT DRO >C28-C36	20.9	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 95.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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Mike Snyder For 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:	01/15/2021	Sampling Date:	01/15/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 22 (H210101-17)

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	01/19/2021	ND	2.03	102	2.00	3.08	
Toluene*	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	3.39	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	3.18	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.32	105	6.00	3.05	
Total BTEX	<0.300	0.300	01/19/2021	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	464	16.0	01/18/2021	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	01/19/2021	ND	228	114	200	0.116	
DRO >C10-C28*	47.9	10.0	01/19/2021	ND	245	123	200	2.48	
EXT DRO >C28-C36	13.2	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 96.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.7 % 42.2-156

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Mike Snyder For 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

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For 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

Page 1 of 2

Company Name: APACHE CORPORATION		BILL TO	
Project Manager: BOUCE BAKER	P.O. #:	ANALYSIS REQUEST	
Address:	Company: APACHE		
City: HOBBS State: Zip:	Attn: BOUCE BAKER		
Phone #: 575 631-6983 Fax #:	Address:		
Project #: Project Owner:	City: HOBBS		
Project Name:	State: NM Zip:		
Project Location: ER04 CT3	Phone #: 575 631-6983		
Sampler Name:	Fax #:		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTX	TPH/ST	CHLORIDE
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
H210101	COMPOSITE 1A		1	X						1-15-21	3:59	X	X	X
	COMPOSITE 7		1	X						1-15-21	9:36	X	X	X
	COMPOSITE 8		1	X						1-15-21	9:35	X	X	X
	COMPOSITE 9		1	X						1-15-21	9:40	X	X	X
	COMPOSITE 10		1	X						1-15-21	9:45	X	X	X
	COMPOSITE 11		1	X						1-15-21	1:15	X	X	X
	COMPOSITE 12		1	X						1-15-21	1:18	X	X	X
	COMPOSITE 13		1	X						1-15-21	1:20	X	X	X
	COMPOSITE 14		1	X						1-15-21	1:25	X	X	X
	COMPOSITE 15		1	X						1-15-21	2:30	X	X	X

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Relinquished By: *Mena* Date: **1-15-21** Time: **4:47**

Received By: *Abdi Jemerson* Date: **1-15-21** Time: **2:30**

Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Delivered By: (Circle One) UPS Bus Other: _____

Observed Temp. °C: **1.3** Corrected Temp. °C: _____

Sample Condition: Cool Intact Yes No

Checked By: *ABJ*

Turnaround Time: Standard Rush

Thermometer ID #113 Correction Factor None

Bacteria (only) Cool Intact Yes No

Sample Condition Observed Temp. °C: _____ Corrected Temp. °C: _____

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

REMARKS: *Email Bruce Baker + Natalia's Gladden*



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 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Page 2062

Company Name: Apare Corp
 Project Manager: Burt Bauer
 Address: _____
 City: Hobbs State: NM Zip: 88240
 Phone #: 575-431-4983 Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: _____
 Project Location: EBOUTS
 Sampler Name: _____
 P.O. #: _____
 Company: Same
 Attn: as Reg 1
 Address: _____
 City: _____
 State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<u>HZ1D101</u>	<u>Composite 14</u>	<u>1</u>	<u>1</u>	<u>X</u>						<u>1/15/21</u>	<u>2:35</u>	<u>BTEX</u>
	<u>12</u>	<u>1</u>	<u>1</u>							<u>2:58</u>		<u>Chloride</u>
	<u>13</u>	<u>1</u>	<u>1</u>							<u>3:00</u>		<u>ET/TPH</u>
	<u>14</u>	<u>1</u>	<u>1</u>							<u>3:33</u>		
	<u>15</u>	<u>1</u>	<u>1</u>							<u>3:35</u>		
	<u>16</u>	<u>1</u>	<u>1</u>							<u>3:38</u>		
	<u>17</u>	<u>1</u>	<u>1</u>							<u>3:45</u>		

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Relinquished By: _____
 Date: 1-15-21
 Time: 4:47
 Received By: Speli
 Date: _____
 Time: _____

Turnaround Time: _____
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____
 REMARKS: _____

Delivered By: (Circle One) _____
 Observed Temp. °C: 1.3
 Corrected Temp. °C: _____
 Sample Condition: Intact Cool Yes No No No
 Checked By: SP
 Thermometer ID #1113
 Correction Factor: None
 Bacteria (only) Sample Condition: Standard Rush
 Cool Intact: Yes No No No
 Corrected Temp. °C: _____

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



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

January 21, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EBDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/18/21 16:28.

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". 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:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE SW 1 (H210113-01)

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	01/20/2021	ND	2.09	104	2.00	2.10	
Toluene*	<0.050	0.050	01/20/2021	ND	2.12	106	2.00	0.228	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.09	104	2.00	0.343	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.41	107	6.00	0.382	
Total BTEX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	416	16.0	01/20/2021	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	01/20/2021	ND	242	121	200	3.14	
DRO >C10-C28*	482	10.0	01/20/2021	ND	246	123	200	2.05	
EXT DRO >C28-C36	115	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.4 % 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:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE SW 2 (H210113-02)

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	01/20/2021	ND	2.09	104	2.00	2.10	
Toluene*	<0.050	0.050	01/20/2021	ND	2.12	106	2.00	0.228	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.09	104	2.00	0.343	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.41	107	6.00	0.382	
Total BTEX	<0.300	0.300	01/20/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/20/2021	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	01/20/2021	ND	242	121	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	246	123	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.6 % 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:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE SW 3 (H210113-03)

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	01/19/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.34	106	6.00	3.40	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	464	16.0	01/20/2021	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	01/20/2021	ND	242	121	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	246	123	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.9 % 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:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE SW 4 (H210113-04)

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	01/19/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.34	106	6.00	3.40	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	192	16.0	01/20/2021	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	01/20/2021	ND	242	121	200	3.14	
DRO >C10-C28*	67.6	10.0	01/20/2021	ND	246	123	200	2.05	
EXT DRO >C28-C36	32.6	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 90.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.4 % 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:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE SW 5 (H210113-05)

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	01/19/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.34	106	6.00	3.40	
Total BTEX	<0.300	0.300	01/19/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/20/2021	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	01/20/2021	ND	242	121	200	3.14	
DRO >C10-C28*	1290	10.0	01/20/2021	ND	246	123	200	2.05	
EXT DRO >C28-C36	312	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE SW 6 (H210113-06)

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	01/19/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.34	106	6.00	3.40	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	224	16.0	01/20/2021	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	01/20/2021	ND	242	121	200	3.14	
DRO >C10-C28*	310	10.0	01/20/2021	ND	246	123	200	2.05	
EXT DRO >C28-C36	86.4	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.0 % 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:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE SW 7 (H210113-07)

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	01/19/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.34	106	6.00	3.40	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	224	16.0	01/20/2021	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	01/20/2021	ND	242	121	200	3.14	
DRO >C10-C28*	10.3	10.0	01/20/2021	ND	246	123	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 90.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.1 % 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:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE SW 8 (H210113-08)

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	01/19/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.34	106	6.00	3.40	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	240	16.0	01/20/2021	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	01/20/2021	ND	242	121	200	3.14	
DRO >C10-C28*	786	10.0	01/20/2021	ND	246	123	200	2.05	
EXT DRO >C28-C36	221	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 87.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE SW 9 (H210113-09)

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	01/19/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.34	106	6.00	3.40	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	272	16.0	01/20/2021	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	01/20/2021	ND	236	118	200	0.732	
DRO >C10-C28*	1790	10.0	01/20/2021	ND	261	131	200	1.94	
EXT DRO >C28-C36	562	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 142 % 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:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE SW 10 (H210113-10)

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	01/19/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.34	106	6.00	3.40	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	160	16.0	01/20/2021	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	01/20/2021	ND	236	118	200	0.732	
DRO >C10-C28*	413	10.0	01/20/2021	ND	261	131	200	1.94	
EXT DRO >C28-C36	90.2	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 99.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 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:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE SW 11 (H210113-11)

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	01/19/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.34	106	6.00	3.40	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	272	16.0	01/20/2021	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*	145	10.0	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	1170	10.0	01/20/2021	ND	165	82.5	200	4.52	QR-03
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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Celey D. Keene

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

PAGE 1 OF 2

BILL TO

ANALYSIS REQUEST

Company Name: APACHE CORPORATION P.O. #:

Project Manager: Bruce Baker Company: APACHE

Address: _____ Attn: Bruce Baker

City: HOBBS State: NM Zip: _____ Address: HOBBS

Phone #: 437 631-6983 Fax #: _____ City: _____

Project #: _____ Project Owner: _____ State: NM Zip: _____

Project Name: _____ Phone #: 432 631-6983 Fax #: _____

Project Location: ESQ4 CTB

Sampler Name: _____

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<u>H21D113</u>												
1	COMPOSITE SW1								1-18-21	11:00		
2	COMPOSITE SW2								1-18-21	11:15		
3	COMPOSITE SW3								1-18-21	11:20		
4	COMPOSITE SW4								1-18-21	1:20		
5	COMPOSITE SW5								1-18-21	1:24		
6	COMPOSITE SW6								1-18-21	3:00		
7	COMPOSITE SW7								1-18-21	3:04		
8	COMPOSITE SW8								1-18-21	3:06		
9	COMPOSITE SW9								1-18-21	3:24		
10	COMPOSITE SW10								1-18-21	3:24		

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Relinquished By: _____ Received By: Namara Adams

Date: 1-18-21 Date: _____

Time: 4:20 Time: _____

Delivered By: (Circle One) Observed Temp. °C: 4.6 Sample Condition: Cool Intact

Sampler - UPS - Bus - Other: Corrected Temp. °C: _____ Yes No

Checked By: (Initials) NA Turndown Time: _____ Bacteria (only) Sample Condition: Standard Rush

Thermometer ID: #113 Correction Factor: None Yes No Yes No

REMARKS: ATN Bruce Baker + NATALIE CLINDEN



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PAGE 2 of 2

BILL TO

ANALYSIS REQUEST

Company Name: APACHE CORPORATION
 Project Manager: BRUCE BAKER
 Address: _____
 City: HOBBS State: NM Zip: _____
 Phone #: 432 631-6983 Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: _____
 Project Location: EB04 CT03
 Sampler Name: _____
 FOR LAB USE ONLY

P.O. #: _____ Company: APACHE
 Attn: BRUCE BAKER
 Address: _____
 City: HOBBS State: NM Zip: _____
 Phone #: 432 631-6983 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTX	ET/TPH	CHLORIDE
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<u>H21D113</u>	<u>COMPOSITE SW11</u>	<u>X</u>	<u>8</u>			<u>X</u>				<u>1-18-21</u>	<u>3:30</u>	<u>X</u>	<u>X</u>	<u>Y</u>

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Relinquished By: _____ Date: 1-18-21 Received By: Shirley Adams
 Date: 1-18-21 Time: _____
 Date: _____ Time: _____
 Relinquished By: _____ Received By: _____

Delivered By: (Circle One) Observed Temp. °C 410 Sample Condition Cool Intact Yes No
 Sampler - UPS - Bus - Other: Corrected Temp. °C _____ Yes No

Turnaround Time: _____ Thermometer ID #113 Correction Factor None
 Standard Bacteria (only) Sample Condition Cool Intact Yes No
 Add'l Phone #: _____ Corrected Temp. °C _____

REMARKS: ATN BRUCE BAKER
NITRATE CLADDER

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



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

January 29, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EBDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/28/21 16:43.

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:	01/28/2021	Sampling Date:	01/28/2021
Reported:	01/29/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 9 A (H210212-01)

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	01/29/2021	ND	2.24	112	2.00	5.51		
Toluene*	<0.050	0.050	01/29/2021	ND	2.21	111	2.00	5.66		
Ethylbenzene*	<0.050	0.050	01/29/2021	ND	2.19	110	2.00	6.78		
Total Xylenes*	<0.150	0.150	01/29/2021	ND	6.42	107	6.00	6.57		
Total BTEX	<0.300	0.300	01/29/2021	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/29/2021	ND	218	109	200	6.50		
DRO >C10-C28*	17.3	10.0	01/29/2021	ND	211	105	200	4.66		
EXT DRO >C28-C36	<10.0	10.0	01/29/2021	ND						

Surrogate: 1-Chlorooctane 94.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.7 % 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:	01/28/2021	Sampling Date:	01/28/2021
Reported:	01/29/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 12 A (H210212-02)

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	01/29/2021	ND	2.24	112	2.00	5.51		
Toluene*	<0.050	0.050	01/29/2021	ND	2.21	111	2.00	5.66		
Ethylbenzene*	<0.050	0.050	01/29/2021	ND	2.19	110	2.00	6.78		
Total Xylenes*	<0.150	0.150	01/29/2021	ND	6.42	107	6.00	6.57		
Total BTEX	<0.300	0.300	01/29/2021	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/29/2021	ND	218	109	200	6.50		
DRO >C10-C28*	71.5	10.0	01/29/2021	ND	211	105	200	4.66		
EXT DRO >C28-C36	17.3	10.0	01/29/2021	ND						

Surrogate: 1-Chlorooctane 93.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 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:	01/28/2021	Sampling Date:	01/28/2021
Reported:	01/29/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 17 A (H210212-03)

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	01/29/2021	ND	2.24	112	2.00	5.51		
Toluene*	<0.050	0.050	01/29/2021	ND	2.21	111	2.00	5.66		
Ethylbenzene*	<0.050	0.050	01/29/2021	ND	2.19	110	2.00	6.78		
Total Xylenes*	<0.150	0.150	01/29/2021	ND	6.42	107	6.00	6.57		
Total BTEX	<0.300	0.300	01/29/2021	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/29/2021	ND	218	109	200	6.50		
DRO >C10-C28*	31.5	10.0	01/29/2021	ND	211	105	200	4.66		
EXT DRO >C28-C36	<10.0	10.0	01/29/2021	ND						

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 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:	01/28/2021	Sampling Date:	01/28/2021
Reported:	01/29/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 19 A (H210212-04)

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	01/29/2021	ND	2.24	112	2.00	5.51		
Toluene*	<0.050	0.050	01/29/2021	ND	2.21	111	2.00	5.66		
Ethylbenzene*	<0.050	0.050	01/29/2021	ND	2.19	110	2.00	6.78		
Total Xylenes*	<0.150	0.150	01/29/2021	ND	6.42	107	6.00	6.57		
Total BTEX	<0.300	0.300	01/29/2021	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/29/2021	ND	218	109	200	6.50		
DRO >C10-C28*	15.4	10.0	01/29/2021	ND	211	105	200	4.66		
EXT DRO >C28-C36	<10.0	10.0	01/29/2021	ND						

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 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:	01/28/2021	Sampling Date:	01/28/2021
Reported:	01/29/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: COMPOSITE 21 A (H210212-05)

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	01/29/2021	ND	2.24	112	2.00	5.51	
Toluene*	<0.050	0.050	01/29/2021	ND	2.21	111	2.00	5.66	
Ethylbenzene*	<0.050	0.050	01/29/2021	ND	2.19	110	2.00	6.78	
Total Xylenes*	<0.150	0.150	01/29/2021	ND	6.42	107	6.00	6.57	
Total BTEX	<0.300	0.300	01/29/2021	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2021	ND	218	109	200	6.50	
DRO >C10-C28*	24.5	10.0	01/29/2021	ND	211	105	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	01/29/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

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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

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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

- RUSH -

BILL TO

ANALYSIS REQUEST

Company Name: APACHE CORPORATION	P.O. #:
Project Manager: BRUCE BATEL	Company: APACHE
Address: 2350 W MARYLAND BLVD	Attn: BRUCE BATEL
City: HOBBS State: NM Zip: 88240	Address:
Phone #: _____ Fax #: _____	City:
Project #: _____ Project Owner:	State: _____ Zip: _____
Project Name: ES09 CTB	Phone #: _____
Project Location: FARRE AVA	Fax #: _____
Sampler Name: MARC RIVERA	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	EXT. TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
Hand 212	1 COMPOSITE 9A		1						1-28	1:45			
	2 COMPOSITE 12A		1						1-28	10:05			
	3 COMPOSITE 17A		1						1-28	11:10			
	4 COMPOSITE 19A		1						1-28	8:40			
	5 COMPOSITE 21A		1						1-28	9:20			

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Relinquished By: _____	Date: 1-28-21	Received By: Marc Rivera	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By: _____	Time: 16:43	Received By: _____	All Results are emailed. Please provide Email address:	
Delivered By: (Circle One)	Observed Temp. °C 6.0	Sample Condition	Turnaround Time:	Standard <input checked="" type="checkbox"/> RUSH
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Thermometer ID #113	Bacteria (only) <input checked="" type="checkbox"/>
		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor None	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>
				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
				Corrected Temp. °C

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



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

January 29, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EBDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/28/21 16:43.

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:	01/28/2021	Sampling Date:	01/27/2021
Reported:	01/29/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE SW 1A (H210213-01)

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	01/29/2021	ND	2.24	112	2.00	5.51	
Toluene*	<0.050	0.050	01/29/2021	ND	2.21	111	2.00	5.66	
Ethylbenzene*	<0.050	0.050	01/29/2021	ND	2.19	110	2.00	6.78	
Total Xylenes*	<0.150	0.150	01/29/2021	ND	6.42	107	6.00	6.57	
Total BTEX	<0.300	0.300	01/29/2021	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2021	ND	218	109	200	6.50	
DRO >C10-C28*	<10.0	10.0	01/29/2021	ND	211	105	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	01/29/2021	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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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:	01/28/2021	Sampling Date:	01/27/2021
Reported:	01/29/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE SW 4A (H210213-02)

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	01/29/2021	ND	2.00	100	2.00	1.59	
Toluene*	<0.050	0.050	01/29/2021	ND	2.08	104	2.00	0.367	
Ethylbenzene*	<0.050	0.050	01/29/2021	ND	2.05	102	2.00	0.0578	
Total Xylenes*	<0.150	0.150	01/29/2021	ND	6.42	107	6.00	0.659	
Total BTEX	<0.300	0.300	01/29/2021	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2021	ND	218	109	200	6.50	
DRO >C10-C28*	<10.0	10.0	01/29/2021	ND	211	105	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	01/29/2021	ND					

Surrogate: 1-Chlorooctane 99.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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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:	01/28/2021	Sampling Date:	01/27/2021
Reported:	01/29/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE SW 5A (H210213-03)

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	01/29/2021	ND	2.00	100	2.00	1.59	
Toluene*	<0.050	0.050	01/29/2021	ND	2.08	104	2.00	0.367	
Ethylbenzene*	<0.050	0.050	01/29/2021	ND	2.05	102	2.00	0.0578	
Total Xylenes*	<0.150	0.150	01/29/2021	ND	6.42	107	6.00	0.659	
Total BTEX	<0.300	0.300	01/29/2021	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2021	ND	218	109	200	6.50	
DRO >C10-C28*	<10.0	10.0	01/29/2021	ND	211	105	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	01/29/2021	ND					

Surrogate: 1-Chlorooctane 91.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.1 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/28/2021	Sampling Date:	01/27/2021
Reported:	01/29/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE SW 6A (H210213-04)

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	01/29/2021	ND	2.00	100	2.00	1.59	
Toluene*	<0.050	0.050	01/29/2021	ND	2.08	104	2.00	0.367	
Ethylbenzene*	<0.050	0.050	01/29/2021	ND	2.05	102	2.00	0.0578	
Total Xylenes*	<0.150	0.150	01/29/2021	ND	6.42	107	6.00	0.659	
Total BTEX	<0.300	0.300	01/29/2021	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2021	ND	218	109	200	6.50	
DRO >C10-C28*	14.5	10.0	01/29/2021	ND	211	105	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	01/29/2021	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.3 % 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:	01/28/2021	Sampling Date:	01/27/2021
Reported:	01/29/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE SW 8A (H210213-05)

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	01/29/2021	ND	2.00	100	2.00	1.59	
Toluene*	<0.050	0.050	01/29/2021	ND	2.08	104	2.00	0.367	
Ethylbenzene*	<0.050	0.050	01/29/2021	ND	2.05	102	2.00	0.0578	
Total Xylenes*	<0.150	0.150	01/29/2021	ND	6.42	107	6.00	0.659	
Total BTEX	<0.300	0.300	01/29/2021	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2021	ND	218	109	200	6.50	
DRO >C10-C28*	242	10.0	01/29/2021	ND	211	105	200	4.66	
EXT DRO >C28-C36	56.0	10.0	01/29/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 139 % 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:	01/28/2021	Sampling Date:	01/27/2021
Reported:	01/29/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE SW 9A (H210213-06)

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	01/29/2021	ND	2.24	112	2.00	5.51	
Toluene*	<0.050	0.050	01/29/2021	ND	2.21	111	2.00	5.66	
Ethylbenzene*	<0.050	0.050	01/29/2021	ND	2.19	110	2.00	6.78	
Total Xylenes*	<0.150	0.150	01/29/2021	ND	6.42	107	6.00	6.57	
Total BTEX	<0.300	0.300	01/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2021	ND	218	109	200	6.50	
DRO >C10-C28*	29.8	10.0	01/29/2021	ND	211	105	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	01/29/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 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:	01/28/2021	Sampling Date:	01/27/2021
Reported:	01/29/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE SW 10A (H210213-07)

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	01/29/2021	ND	2.24	112	2.00	5.51		
Toluene*	<0.050	0.050	01/29/2021	ND	2.21	111	2.00	5.66		
Ethylbenzene*	<0.050	0.050	01/29/2021	ND	2.19	110	2.00	6.78		
Total Xylenes*	<0.150	0.150	01/29/2021	ND	6.42	107	6.00	6.57		
Total BTEX	<0.300	0.300	01/29/2021	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/29/2021	ND	218	109	200	6.50		
DRO >C10-C28*	16.0	10.0	01/29/2021	ND	211	105	200	4.66		
EXT DRO >C28-C36	<10.0	10.0	01/29/2021	ND						

Surrogate: 1-Chlorooctane 98.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 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:	01/28/2021	Sampling Date:	01/27/2021
Reported:	01/29/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: COMPOSITE SW 11A (H210213-08)

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	01/29/2021	ND	2.24	112	2.00	5.51	
Toluene*	<0.050	0.050	01/29/2021	ND	2.21	111	2.00	5.66	
Ethylbenzene*	<0.050	0.050	01/29/2021	ND	2.19	110	2.00	6.78	
Total Xylenes*	<0.150	0.150	01/29/2021	ND	6.42	107	6.00	6.57	
Total BTEX	<0.300	0.300	01/29/2021	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2021	ND	218	109	200	6.50	
DRO >C10-C28*	<10.0	10.0	01/29/2021	ND	211	105	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	01/29/2021	ND					

Surrogate: 1-Chlorooctane 93.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

February 02, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EBDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/01/21 14:12.

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". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/01/2021
 Reported: 02/02/2021
 Project Name: EBDU CTB
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 02/01/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: C 12 A (H210245-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2021	ND	2.24	112	2.00	5.45	
Toluene*	<0.050	0.050	02/01/2021	ND	2.18	109	2.00	5.03	
Ethylbenzene*	<0.050	0.050	02/01/2021	ND	2.15	107	2.00	4.86	
Total Xylenes*	<0.150	0.150	02/01/2021	ND	6.31	105	6.00	4.55	
Total BTEX	<0.300	0.300	02/01/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	02/02/2021	ND	400	100	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2021	ND	170	84.9	200	9.64	
DRO >C10-C28*	<10.0	10.0	02/02/2021	ND	174	87.1	200	8.81	
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/02/2021	Sampling Type:	Soil
Project Name:	EBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM		

Sample ID: C SW 8 A (H210245-02)

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	02/01/2021	ND	2.24	112	2.00	5.45	
Toluene*	<0.050	0.050	02/01/2021	ND	2.18	109	2.00	5.03	
Ethylbenzene*	<0.050	0.050	02/01/2021	ND	2.15	107	2.00	4.86	
Total Xylenes*	<0.150	0.150	02/01/2021	ND	6.31	105	6.00	4.55	
Total BTEX	<0.300	0.300	02/01/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2021	ND	400	100	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2021	ND	170	84.9	200	9.64	
DRO >C10-C28*	10.8	10.0	02/02/2021	ND	174	87.1	200	8.81	
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 98.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



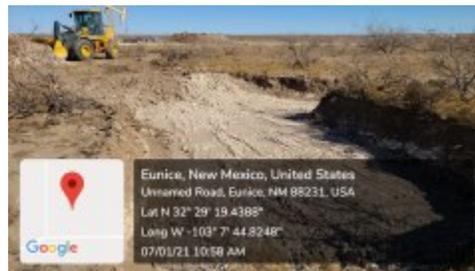
101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ABACHE CORP Project Manager: Bruce Baker		P.O. #: _____ Company: Apfelle	
Address: 8211 Sen Lane City: Sunrise State: NM Zip: 88231		Attn: Bruce Baker Address: _____ City: _____ State: _____ Zip: _____	
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____		City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Project Name: EBDU CTB Project Location: EBDU CTB		Project Name: _____ Project Location: _____	
Sampler Name: _____ FOR LAB USE ONLY		Sampler Name: _____ FOR LAB USE ONLY	
Lab I.D. _____ Sample I.D. _____		Lab I.D. _____ Sample I.D. _____	
(G)RAB OR (C)OMP. _____ # CONTAINERS _____		(G)RAB OR (C)OMP. _____ # CONTAINERS _____	
MATRIX: GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____		MATRIX: GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____	
PRESERV: ACID/BASE: _____ ICE / COOL _____ OTHER: _____		PRESERV: ACID/BASE: _____ ICE / COOL _____ OTHER: _____	
DATE: _____ TIME: _____		DATE: _____ TIME: _____	
RECEIVED BY: _____		RECEIVED BY: _____	
CHECKED BY: _____ (Initials)		CHECKED BY: _____ (Initials)	
OBSERVED TEMP. °C: _____ CORRECTED TEMP. °C: _____		OBSERVED TEMP. °C: _____ CORRECTED TEMP. °C: _____	
SAMPLE CONDITION: Cool Intact _____ Yes _____ No _____		SAMPLE CONDITION: Cool Intact _____ Yes _____ No _____	
TURNAROUND TIME: _____ Standard _____ Rush _____		TURNAROUND TIME: _____ Standard _____ Rush _____	
BACTERIA (only) Sample Condition: Cool Intact _____ Yes _____ No _____		BACTERIA (only) Sample Condition: Cool Intact _____ Yes _____ No _____	
REMARKS: National Energy Services LLC. COM Larry Baker @ Apfelle Corp. COM		REMARKS: _____	



EBDU CTB REMEDIATION PHOTOS

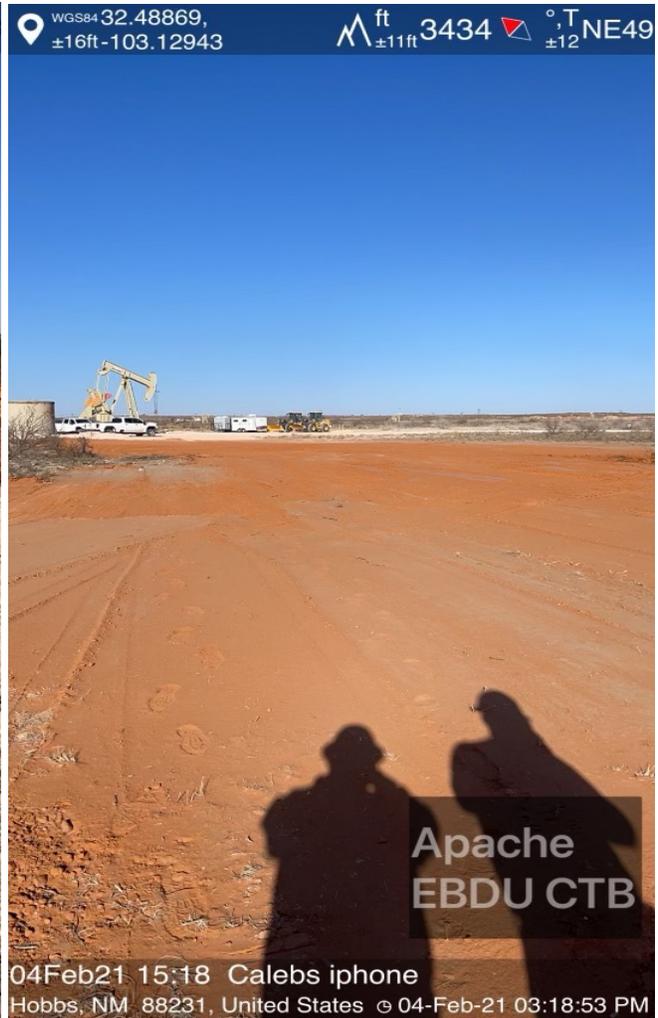






EBDU CTB CLOSURE PHOTOS







State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech SR.
 Signature: *Larry Baker* Date: 2/9/2021
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

State of New Mexico
Oil Conservation Division

Incident ID	NRM1933741261
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech SR.
 Signature: *Larry Baker* Date: 2/9/2021
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: Robert Hamlet Date: 6/17/2021

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

Closure Approved by: *Robert Hamlet* Date: 6/17/2021
 Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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 17481

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 17481
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM1933741261 EAST BLINEBRY DRINKARD UNIT (EBDU) CTB, thank you. This closure is approved.	6/17/2021