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	
District RP	
Facility ID	
Application ID	

### **Release Notification**

### **Responsible Party**

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

### **Location of Release Source**

Latitude: <u>W 32.48397</u>

Longitude: <u>N -103.18335</u>

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: WBDU 144H	Site Type: Well
Date Release Discovered: 09/30/2020	API # 30-025-40429

Unit Letter	Section	Township	Range	County
В	17	21S	37E	LEA

Surface Owner: State Federal Tribal Private (*Name: <u>Chevron USA</u>*)

### Nature and Volume of Release

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

Crude Oil	Volume Released (3 Barrels)	Volume Recovered (1/2 Barrels)
Produced Water	Volume Released (3 Barrels)	Volume Recovered (0 Barrels)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Packing failure.		

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Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	
🗌 Yes 🖾 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

### **Initial Response**

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

 $\square$  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

700-Signature:

Date: 10/6/2020

Email: Jeffrey.Broom@apachecorp.com

Telephone: (432) 664-4677

### OCD Only

Received by:

Date:

### **Volume Calculation**

95.30 cubic feet of soil contamination X 7.48 gallons per cubic foot = 712 gallons/42 gallons to a barrel=16.97 barrels X .33 soil porosity= 5.50 barrels fluid in soil + .50 barrels recovered = 6 barrels total loss.



303 Veterans Airpark Lane Midland, TX 79705

### **Remediation Plan**

December 30, 2020

*Re: WBDU 144H Case #NRM2028760472* 

### Background:

On 09/30/2020 a release occurred due to a packing failure. The release (GPS: 32.48397, -103.18335) is located north of Eunice, New Mexico in unit letter B section 17 township 21S range 37E. A groundwater survey was conducted utilizing NMOSE and USGS. The nearest well of record suggest the groundwater depth below the release to be 70 feet below ground surface.

On 12/10/2020 a vertical (SP1) was conducted utilizing a hand auger with samples collected in one-foot intervals to a depth of 1 foot. All samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Horizontal 5-point surface composite samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

On 12/28/2020 horizontal 5-point surface composite samples were collected at H 2 and H 4 and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All Laboratory results meet table one standards for releases 51-100 feet to groundwater.

### **Remediation Plan:**

Apache Corporation proposes that the release area be excavated to a depth of 6 inches to 1 foot. Final 5-point bottom and wall composite samples will be collected not exceeding 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated soil (50 yards) will be hauled to an OCD approved disposal facility. Once laboratory results are all below table one standards for releases 51-100 feet to groundwater the excavation will be backfilled with clean imported caliche and the pad restored. The remediation will be completed within 90 days of OCD approval of the plan.

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

Submitted by;

Received by OCD: 12/30/2020 12:30:06 PM

*Environmental Technician III Jeffrey.Broom@apachecorp.com Cell# 432-664-4677* 



State of New Mexico **Oil Conservation Division** 

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

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  $\boxtimes$ 

- $\boxtimes$ Field data
  - $\boxtimes$ Data table of soil contaminant concentration data

Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps
Laboratory data including chain of custody g plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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2 of	Form	C-141
0	Page 4	Q-141
Pa	Tage 4	

### State of New Mexico Oil Conservation Division

Incident ID	NRM2028760472
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is	s 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	
ailed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In ddition, 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.	to remesse the operator of responsionity for compliance with any other reactal, state, or local laws	
Printed Name: Jeff Broom	Title: Environmental Technician III	
0 110	40/00/0000	
Signature: Jeff Broom	Date: 12/30/2020	

email: <u>Jeffrey.Broom@apachecorp.com</u>

Telephone: 432-664-4677

OCD Only

Received by: Cr

Cristina Eads

Date: 12/10/2020

Form C-141

State of New Mexico Oil Conservation Division

Incident ID	NRM2028760472
District RP	
Facility ID	
Application ID	

### **Remediation Plan**

<b><u>Remediation Plan Checklist</u>:</b> Each of the following items must be	e included in the plan.
<ul> <li>Detailed description of proposed remediation technique</li> <li>Scaled sitemap with GPS coordinates showing delineation point</li> <li>Estimated volume of material to be remediated</li> </ul>	
<ul> <li>Closure criteria is to Table 1 specifications subject to 19.15.29.1</li> <li>Proposed schedule for remediation (note if remediation plan times)</li> </ul>	
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around pr deconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	a, the environment, or groundwater.
	and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Jeff Broom	Title: Environmental Tech III
Signature: Jeff Broom	Date: 12/30/2020
email: Jeffrey.Broom@apachecorp.com	Telephone: 432-664-4677
OCD Only	
Received by: Cristina Eads	Date: 12/10/2020
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature: Justan 2	Date: 02/04/2021



## Search Results -- 1 sites found Groundwater levels for the Nation

site\_no list = • 322838103111201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 322838103111201 215.37E.17.144111

Available data for this site Groundwater. Field measurements ġ

Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°28'50", Longitude 103°11'14" NAD27 Land-surface elevation 3,472.30 feet above NGVD29

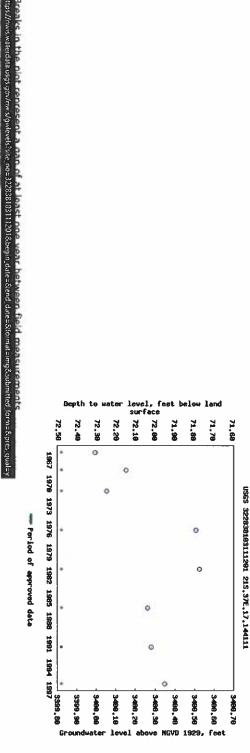
aquifer. The depth of the well is 96 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local



Tab-separated data

Table of data

Output formats



Breaks in the nint renr

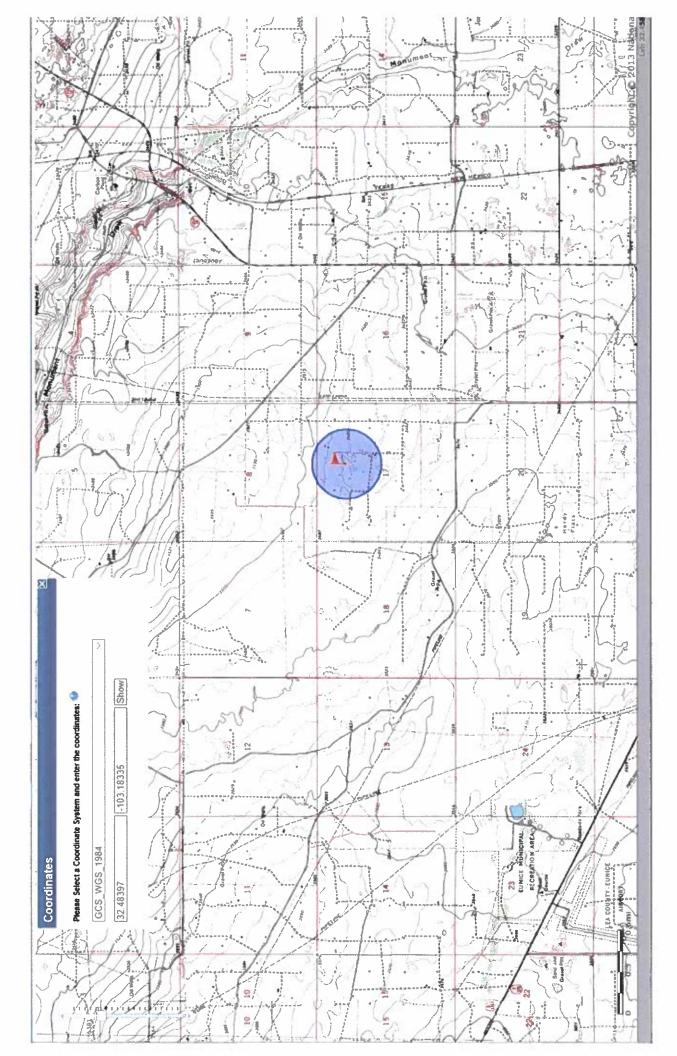
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### Point of Diversion Summary New Mexico Office of the State Engineer

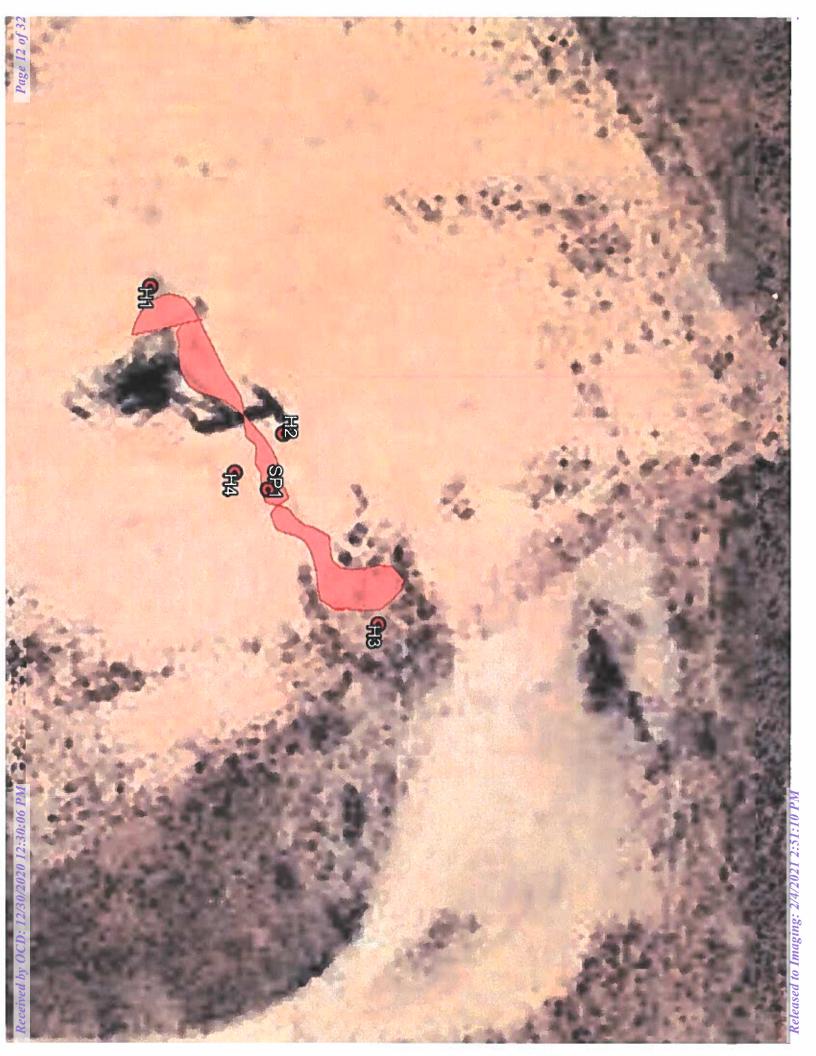
	167 Sandstone Gravel Considerate	Top Bottom Description 95 167 Sandstone C		Water Bearing Stratifications:	Wate
95 feet	Depth Water: 95 feet	16° feet	Depth Well:	5.14	Casing Size:
15 GPN	Estimated Yield: 25 GPM		Pipe Discharge Size:		Pump Type:
Shallow	Source:		PCW Rev Date:	10 23 2009	Log File Date:
	Plug Date:	10-14-2009	Drill Finish Date:	10-12-2009	Drill Start Date:
			LLEN	TAYLOR, ROY ALLEN	Driller Name:
	ALLEN	TAYLOR, ROY ALLEN	Driller Company:	1626	Driller License: 1626
	CiAD83 UTM in meters) X Y 669809 3594958 🕑		Q64 Q16 Q4 See Tws Rng 1 1 3 17 21S 37E	POD Number CP 01026 POD1	Well Tag POD CP (

The data is familied by the XXIOSE ISC and is accepted by the recepter with the expressed indeptinding this the OSE ISC make no warrantee, expressed or implied, concerning the accuracy, completeness, valuability, usbility, or statibility for any particular purpose of the data. 12/30/20 7 - 33 AM POINT OF DIVERSION SUMMARY

POINT OF DIVERSION SUMMARY



Released to Imaging: 2/4/2021 2:51:10 PM



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Sample DateSample IDDepthChlorideChlorideChlorideBenzeneTouleneEthybenzTotalTotalGRODROEXT DROGPS $12/10/2020$ SP 1S10,28614,000<0.0500.4210.4671.532.41108902.0532.484055 $12/10/2020$ SP 1S10,28614,000<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050<0.050 </th <th>Depth         Chloride         Chloride         Benzene         Toulene         Ethybenz         Total         Total         GRO         DRO         EXT DRO           S         10,286         14,000         &lt;0.050         0.421         0.467         1.53         2.41         10         890         205           1'         2,230         960         &lt;0.050         &lt;</th> <th>-103.183264</th> <th>&lt;10.0</th> <th>&lt;10.0</th> <th>&lt;10.0</th> <th>&lt;0.300</th> <th>&lt;0.150</th> <th>&lt;0.050</th> <th>&lt;0.050</th> <th>&lt;0.050</th> <th>&lt;16.0</th> <th>150</th> <th>s</th> <th>H4</th> <th>12/28/2020</th>	Depth         Chloride         Chloride         Benzene         Toulene         Ethybenz         Total         Total         GRO         DRO         EXT DRO           S         10,286         14,000         <0.050         0.421         0.467         1.53         2.41         10         890         205           1'         2,230         960         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <	-103.183264	<10.0	<10.0	<10.0	<0.300	<0.150	<0.050	<0.050	<0.050	<16.0	150	s	H4	12/28/2020
Sample ID         Depth         Chloride         Chloride         Benzene         Toulene         Ethybenz         Total         Total         GRO         DRO         EXT DRO           SP 1         S         10,286         14,000         <0.050         0.421         0.467         1.53         2.41         10         890         205           SP 1         S         10,286         14,000         <0.050         0.421         0.467         1.53         2.41         10         890         205           Int         2,230         960         <0.050         <0.050         <0.050         <0.150         <0.300         <10.0         17.6         <10.0           H1         S         227         64         <0.050         <0.050         <0.150         <0.300         <10.0         59.7         12.6           H2         S         145         16.0         <0.050         <0.050         <0.150         <0.300         <10.0         <10.0         <10.0           H3         S         145         16.0         <0.050         <0.050         <0.150         <0.300         <10.0         <10.0         <10.0	DepthChlorideChlorideBenzeneTouleneEthybenzTotalTotalTotalGRODROEXT DROS10,28614,000<0.0500.4210.4671.532.41108902.051'2,230960<0.050<0.050<0.050<0.050<0.050<0.050<1.0017.6<10.0S22764<0.050<0.050<0.050<0.050<0.050<0.050<0.300<10.059.712.6S14516.0<0.050<0.050<0.050<0.050<0.150<0.300<10.0<10.0<10.0S14516.0<0.050<0.050<0.050<0.050<0.150<0.300<10.0<10.0<10.0S145<16.0<0.050<0.050<0.050<0.050<0.150<0.300<10.0<10.0<10.0	32.484028													
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Sample ID         Depth         Chloride         Benzene         Toulene         Ethybenz         Total         Total         GRO         DRO         EXT DRO           SP 1         S         10,286         14,000         <0.050         0.421         0.467         1.53         2.41         10         890         205           M1         S         2,230         960         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.0	Depth         Chloride         Chloride         Benzene         Toulene         Ethybenz         Total         Total         GRO         BRO         EXT DRO           S         10,286         14,000         <0.050         0.421         0.467         1.53         2.41         10         890         205           1'         2,230         960         <0.050         <0.050         <0.050         <0.150         <0.300         <10.0         17.6         <10.0         205           S         227         64         <0.050         <0.050         <0.050         <0.150         <0.300         <10.0         59.7         12.6           S         145         16.0         <0.050         <0.050         <0.050         <0.150         <0.300         <10.0         59.7         12.6	32.484159													
Sample ID         Depth         Chloride         Benzene         Toulene         Ethybenz         Total         GRO         DRO         EXT DRO           SP 1         S         10,286         14,000         <0.050         0.421         0.467         1.53         2.41         10         890         205           SP 1         S         10,286         14,000         <0.050         0.421         0.467         1.53         2.41         10         890         205           H1         S         2,27         64         <0.050         <0.050         <0.050         <0.300         <10.0         59.7         12.6           H1         S         227         64         <0.050         <0.050         <0.150         <0.300         <10.0         59.7         12.6	Depth         Chloride         Chloride         Benzene         Toulene         Ethybenz         Total         Total         GRO         DRO         EXT DRO           S         10,286         14,000         <0.050         0.421         0.467         1.53         2.41         10         890         205           1'         2,230         960         <0.050         <0.050         <0.050         <0.050         <0.150         <0.300         <10.0         17.6         <10.0         <17.6         <10.0         17.6         <10.0         17.6         <10.0         17.6         <10.0         17.6         <10.0         17.6         <10.0         17.6         <10.0         17.6         <10.0         17.6         <10.0         17.6         <10.0         17.6         <10.0         17.6         <10.0         17.6         <10.0         17.6         <10.0         17.6         <10.0         17.6         <10.0         17.6         <10.0         10.0         19.7         12.6         <10.0         10.0         19.7         12.6         <10.6         <10.0         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6         10.6	-103.183306	<10.0	<10.0	<10.0	<0.300	<0.150	<0.050	<0.050	<0.050	16.0	145	s	H2	12/28/2020
Sample ID         Depth         Chloride         Benzene         Toulene         Ethybenz         Total         GRO         DRO         EXT DRO           SP1         S         10,286         14,000         <0.050         0.421         0.467         1.53         2.41         10         890         205           M1         S         227         64         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050<	Depth         Chloride         Chloride         Benzene         Toulene         Ethybenz         Total         Total         GRO         DRO         EXT DRO           S         10,286         14,000         <0.050         0.421         0.467         1.53         2.41         10         890         205           1'         2,230         960         <0.050         <0.050         <0.050         <0.150         <0.300         <10.0         17.6         <10.0           S         227         64         <0.050         <0.050         <0.050         <0.050         <0.150         <0.300         <10.0         59.7         12.6	32.484070													
Sample ID         Depth         Chloride         Benzene         Toulene         Ethybenz         Total         GRO         DRO         EXT DRO           SP 1         S         10,286         14,000         <0.050         0.421         0.467         1.53         2.41         10         890         205           V         V         V         2,230         960         <0.050         <0.050         <0.150         <0.300         <10.0         17.6         <10.0	Depth         Chloride         Chloride         Benzene         Toulene         Ethybenz         Total         Total         GRO         DRO         EXT DRO           S         10,286         14,000         <0.050         0.421         0.467         1.53         2.41         10         890         205           1'         2,230         960         <0.050         <0.050         <0.150         <0.300         <10.0         17.6         <10.0           V         V         V         V         V         V         V         V         <0.050         <0.150         <0.000         <10.0         17.6         <10.0	-103.183470	12.6	59.7	<10.0	<0.300	<0.150	<0.050	<0.050	<0.050	64	227	s	H1	12/10/20020
Sample ID         Depth         Chloride         Chloride         Benzene         Toulene         Ethybenz         Total         Total         GRO         DRO         EXT DRO           SP 1         S         10,286         14,000         <0.050         0.421         0.467         1.53         2.41         10         890         205           I         1'         2,230         960         <0.050         <0.050         <0.150         <0.300         <10.0         17.6         <10.0	Depth         Chloride         Chloride         Benzene         Toulene         Ethybenz         Total         Total         GRO         DRO         EXT DRO           Field         Lab         Lab         0.050         0.421         0.467         1.53         2.41         10         890         205           1'         2,230         960         <0.050         <0.050         <0.050         <0.050         <0.150         <0.300         <10.0         17.6         <10.0	32,483942													
Sample ID         Depth         Chloride         Chloride         Benzene         Toulene         Ethybenz         Total         GRO         DRO         EXT DRO           SP 1         S         10,286         14,000         <0.050         0.421         0.467         1.53         2.41         10         890         205           M         1'         2,230         960         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <	Depth         Chloride         Chloride         Benzene         Toulene         Ethybenz         Total         Total         GRO         DRO         EXT DRO           Field         Lab         A         0.050         0.421         0.467         1.53         2.41         10         890         205           1'         2,230         960         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.050         <0.							I Samples	Horizonta						
Sample ID       Depth       Chloride       Chloride       Benzene       Toulene       Ethybenz       Total       Total       GRO       DRO       EXT DRO         SP 1       S       10,286       14,000       <0.050       0.421       0.467       1.53       2.41       10       890       205	Depth       Chloride       Chloride       Benzene       Toulene       Ethybenz       Total       Total       GRO       DRO       EXT DRO         Field       Lab		<10.0	17.6	<10.0	<0.300	<0.150	<0.050	<0.050	<0.050	960	2,230	1		12/10/2020
Sample ID       Depth       Chloride       Benzene       Toulene       Ethybenz       Total       Total       GRO       DRO       EXT DRO         Image: Sample ID       Field       Lab       Image: Sample ID       ene       Xylenes       BTEX       Image: Sample ID       DRO       EXT DRO	Depth     Chloride     Chloride     Benzene     Toulene     Ethybenz     Total     Total     GRO     DRO     EXT DRO       Field     Lab     ene     Xylenes     BTEX	-103.183244	205	068	10	2.41	1.53	0.467	0.421	<0.050	14,000	10,286	s	SP 1	12/10/2020
Sample ID         Depth         Chloride         Benzene         Toulene         Ethybenz         Total         GRO         DRO         EXT DRO           Image: Sample ID         Field         Lab         ene         Xylenes         BTEX         Image: Sample ID         DRO         EXT DRO	Depth         Chloride         Benzene         Toulene         Ethybenz         Total         Total         GRO         DRO         EXT DRO           Field         Lab         ene         Xylenes         BTEX         EXT	32.484055													
Sample ID Depth Chloride Chloride Benzene Toulene Ethybenz Total Total GRO DRO EXT DRO	Depth Chloride Chloride Benzene Toulene Ethybenz Total Total GRO DRO EXT DRO	Coordinates				BTEX	Xylenes	ene			Lab	Field			
		GPS	EXT DRO	DRO	GRO	Total	Total	Ethybenz			Chloride	Chloride	Depth	Sample ID	Sample Date



December 14, 2020

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

RE: WBDU 144H

Enclosed are the results of analyses for samples received by the laboratory on 12/10/20 16:05.

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 <a href="https://www.tceq.texas.qov/field/qa/lab">www.tceq.texas.qov/field/qa/lab</a> accredited retrift.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Received by OCD: 12/30/2020 12:30:06 PM

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/10/2020	Sampling Date:	12/10/2020
Reported:	12/14/2020	Sampling Type:	Soll
Project Name:	W8DU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

### Sample ID: SP 1 @ SURFACE (H003236-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	1.93	96.6	2.00	8.05	
Toluene*	0.421	0.050	12/11/2020	NÐ	1.85	92.4	2.00	7.75	
Ethylbenzene*	0.467	0.050	12/11/2020	ND	1.92	95.8	2.00	8.56	
Total Xylenes*	1.53	0.150	12/11/2020	ND	5.47	91.1	6.00	8.59	
Total BTEX	2.41	0.300	12/11/2020	ND					

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

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	12/14/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS		- <u>.</u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.0	10.0	12/11/2020	NÐ	244	122	200	1.35	
DRO >C10-C28*	890	10.0	12/11/2020	ND	235	118	200	1.05	
EXT DRO >C28-C36	205	10.0	12/11/2020	ND					
Surrogate: 1-Chlaronctane	99.1 9	44.3-14	4						
Surrogate: 1-Chlorooctadecane	119 %	6 +2.2-15	6						

### Cardinal Laboratories

### \*=Accredited Analyte

SLEASE NOTE: Uability and Damages. Cardinat's facelity, and elemits e-clusive remody for any dam ansing, whener based in contrast or tort, shall be limited to the amount pad by chent for analyses. All caunts, including those for negligence and any comer cause whatiscever shall be detined waved unless inside in writing and including those for registence and incluancy, wrtout limitson, business interruptions, loss of use, or loss of profits including those by client, is subschanes, affiliates or successors animing out of or resided to the performance of the services thereands to the services thereands to the services thereands by client in contents of whether such dimins based upon any of the above stated response on comence. Results teles only to the samples and limit and second thall not be reproduced excess in limited approval of chanal Labovetonelli.

Callery There -

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/10/2020	Sampling Date:	12/10/2020
Reported:	12/14/2020	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

### Sample ID: SP 1 @ 1' (H003236-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	1.93	96.6	2.00	8.05	
Toluene*	<0.050	0.050	12/11/2020	ND	1.85	92.4	2.00	7.75	
Ethylbenzene*	<0.050	0.050	12/11/2020	ND	1.92	95.8	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.47	91.1	6.00	8.59	
Total BTEX	<0.300	0.300	12/11/2020	ND					

73.3-129 Surrogate: 4-Bromofluorobenzene (PIE 101 %

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	12/14/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS			. <u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	< 10.0	10.0	12/14/2020	ND	244	122	200	1.35	
DRO >C10-C28*	17.6	10.0	12/14/2020	ND	235	118	200	1.05	
EXT DRO >C28-C36	< 10.0	10.0	12/14/2020	NÐ					
Surrogate: 1-Chlorooctane	81.1	44,3-14-	I.						
Surrogate: 1-Chlorooctadecane	77,0 \$	42.2-150	5						

### **Cardinal Laboratories**

PLEASE NOTE Uability and Damages. Cardina's Gabity, and divert's evolutive remedy for any dawn ansing, whether based in contract or tort, shall be anned to the amount pad by chent for analyses. All claums, including those for negagence and any other cause whistoever shall be deemed warved unless made in writing and received by Gardinal writin thinky (30) days after competion of the applicable junce. In no event shall Gardinal be liable for incidental or consequential garages, including, without limitation, business interruptions, loss of use, or loss and incidents, affaites or successors ansing out of or inliated to the performance of the services hereunder by Gardinal, regardless of winether such chaim is based upon any of the above stated reasons or otherwise. Results relate only to the sample's identified above. This report shall not be reproduced extept in fuel with written approval of Cardinal Laborationes

Carlang to there -

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte

Released to Imaging: 2/4/2021 2:51:10 PM



### **Notes and Definitions**

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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.
449	Insufficient time to reach temperature.
×	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### Cardinal Laboratories

PLEASE NOTE: Lablary and Damages. Candinal's liabely and clients evolusive remedy for any daim ansing, whether based in contracts or tort, shall be limited to the amount paid by crient for analyses. All claims, including those for negligence and any other cause whatsever shall be deemed waved unless made in writing and received by Calenal writin thrup; (30) cays after competion of the accisable serves. In no event shall Cardinal be liable for including those for including, writing, and cellular tempetion of the accisable serves. In no event shall Cardinal be liable for including those for including those for including those of writing analyses, including, writing, writing, how so it use, or loss of profils inclined by client, its subscientes, antifications or successors anising out of or related to the performance of the services herewide by client, its subscientes, and inclined by client lide acrises there acrises and acrises acrises and acrises and acrises and acrises acrises and acrises and acrises and acrises acrises and acrises and acrises acrises and acrises and acrises and acrises acrises and acrises acr

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Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## 101 East Marland, Hobbs, NM 88240

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Received by OCD: 12/30/2020 12:30:06 PM



December 14, 2020

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

RE: WBDU 144H

Enclosed are the results of analyses for samples received by the laboratory on 12/10/20 16:08.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Received by OCD: 12/30/2020 12:30:06 PM

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/10/2020	Sampling Date:	12/10/2020
Reported:	12/14/2020	Sampling Type:	Soil
Project Name:	W8DU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

### Sample ID: H 1 @ SURFACE (H003235-01)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/11/2020	ND	1.93	96.6	2.00	8.05	
Toluene*	<0.050	0.050	12/11/2020	ND	1.85	92.4	2.00	7.75	
Ethylbenzene*	< 0.050	0.050	12/11/2020	NÐ	1.92	95.8	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.47	91.1	6.00	8.59	
Total BTEX	<0.300	0.300	12/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/14/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS			÷			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2020	ND	244	122	200	1.35	
DRO >C10-C28*	59.7	10.0	12/11/2020	ND	235	118	200	1.05	
EXT DRO >C28-C36	12.6	10.0	12/11/2020	NÐ					
Surrogate: 1-Chlorooctane	84.7	44,3-14	4						
Surrogate: 1-Chlorooctadecane	\$0.8	6 42.2-15	6						

### Cardinal Laboratories

NEW NOTE Labley and Damages. Cardinals haping, and clients endurane namedy for any claim ansing, whether based in compact or tort, shall be lamted to the amount pad by crent for analyses. All claims, including those for negligence and any corer cause whatsever shall be deemed wated unless made in writing and received by Chardhal within ttring. (30) days after comprehen of the applicable server. In no event shall Cardhal be lable for inclandal or consequential camages, including, without limitson, business internations, loss of use, or loss of profils incurred by client is publicable. This produced access areang out of or interacted to the performance of the services therewater by Cardinal, regardless of whether such mini someduling tools studel response of compression.

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Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



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

Received:	12/10/2020
Reported:	12/14/2020
Project Name:	WBDU 144H
Project Number:	NONE GIVEN
Project Location:	LEA COUNTY, NM

Sampling Date:	12/10/2020
Sampling Type:	Soil
Sampling Condition:	Cool & Intact
Sample Received By:	Tamara Oldaker

### Sample ID: H 2 @ SURFACE (H003235-02)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	1.93	96.6	2.00	8.05	
Toluene*	<0.050	0.050	12/11/2020	ND	1.85	92.4	2.00	7.75	
Ethylbenzene*	<0.050	0.050	12/11/2020	ND	1.92	95.8	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.47	91.1	6.00	8.59	
Total BTEX	<0.300	0.300	12/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIE	101	73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŚ	% Recovery	True Value QC	RPD	Qualifier
Chloride	7360	16.0	12/14/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2020	ND	244	122	200	1.35	
DRO >C10-C28*	<10.0	10.0	12/11/2020	ND	235	118	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	12/11/2020	ND					
Surrogate 1-Chlorooctane	81.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	76,2	% 42.2-13	6						

### Cardinal Laboratories

PLEASE NOTE: Liabity and Damages. Candina's 4abity and clients e-clussive remedy for any dam aways, whether based in concret or tort, shall be writed to the amount pad by client for analyses. As claims, including those for negigence and any comer cause whatsever shall be deemed waived unless made in writing and received by Calcinal within thiny. [30] days after completion of the aproclashe service. In no event shall Cardinal be liable for incidence or consequential damages, including, writing, writing, writing, writing, writing, base of use, or vois of profile writing and received by Calcinal within thiny. [30] days after completion of the aproclashe service. In no event shall Cardinal be liable for incidence or consequential damages, including, writing, writing, writing, base of use, or vois of profile writing according to client, its subschedes and any of the above table facence.

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Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte

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

Received:	12/10/2020	Sampling Date:	12/10/2020
Reported:	12/14/2020	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

### Sample ID: H 3 @ SURFACE (H003235-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie	
Benzene*	<0.050	0.050	12/11/2020	ND	1.93	96.6	2.00	8.05		
Toluene*	<0.050	0.050	12/11/2020	ND	1.85	92.4	2.00	7.75		
Ethylbenzene*	<0.050	0.050	12/11/2020	ND	1.92	95.8	2.00	8.56		
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.47	91.1	6.00	8.59		
Total BTEX	<0.300	0.300	12/11/2020	ND						
Surrogate: 4-Bromofluorobenzene (PIE	102 3	6 73.3-12	9							
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie	
Chloride	<16.0	16.0	12/14/2020	ND	432	108	400	0.00		
TPH 8015M	mg/	kg	Analyze	d 8y: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie	
GRO C6-C10*	<10.0	10.0	12/11/2020	ND	244	122	200	1.35		
DRO >C10-C28*	<10.0	10.0	12/11/2020	ND	235	118	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	12/11/2020	ND						
Surrogate: 1-Chloraociane	91.5 9	6 44.3-14	4							
Surrogate: 1-Chlorooctadecane	\$6.4 9	6 42.2-15	6							

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PLEASE NOTE: Labelsty and Damages. Cardinals liability and dentis evolusive remedy for any daim limiting, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including three for negligence and any conter cause whiteboere shall be deemed waved unless made in writing and received by client (stational participance) of the applicable services. In no evert shall claims, including three for incidental or consequential damages, including, writing, similarias interruptions, loss of use, or loss of profits incluined by client, its autobalanes, affaites or lavicessors arising out of or related to the pertormance of the services hereunder by Caronal pertormance in the services hereunder by Caronaly, regarders of whether such online based automation or any of the atom source of the services.

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	12/10/2020	Sampling Date:	12/10/2020
Reported:	12/14/2020	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

### Sample ID: H 4 @ SURFACE (H003235-04)

BTEX 8021B	mg/	kg	Anałyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2020	ND	1,93	96.6	2.00	8.05	
Toluene*	<0.050	0.050	12/11/2020	ND	1.85	92.4	2.00	7.75	
Ethylbenzene*	<0.050	0.050	12/11/2020	ND	1.92	95.8	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/11/2020	ND	5.47	91.1	6.00	8.59	
Total BTEX	<0.300	0.300	12/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PH)	101	% 73_3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/14/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2020	ND	244	122	200	1.35	
DRO >C10-C28*	82.9	10.0	12/11/2020	ND	235	118	200	1.05	
EXT DRO >C28-C36	31.2	10.0	12/11/2020	ND					
Surrogate: 1-Chlorooctane	78.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	76.9	% 42.2-15	6						

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PLEASE NOTE: Liabits and Damages. Cardinar's liabits and dience eviduate remedy for any dawn ansing, whether based in contract or tort, shall be limited to the amount pad by crent for analyses. All claums, including those for negigence and any other cause whatsbeart shall be likes made in writing and received by Cardinal writin thing. (20) days after completion of the approade service. In no event, shall Cardinal be liable for incidental or consequential damages, including, writhout limitsboare, business interruptions, loss of use, or koss of profits incurred by client, is sublicanes, affaites or successors anising out of or rested to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or contenues, results related on the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or contenues.

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Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



### **Notes and Definitions**

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
× 4.	Samples not received at proper temperature of 6°C or below.
445	Insufficient time to reach temperature.
	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### Cardinal Laboratories

### \*=Accredited Analyte

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PLEASE NOTE: Lobbity and Damages. Cardinals liability and directs evolutive remedy for any dam ansing, whether based in contract or tort, shall be lanted to the smooth pad by client for analyses. All claims, including those for negligence and any other cause whitespecer shall be deemed waved unities made in writing and increased by client for analyses. All claims, including those for negligence and any other cause whitespecer shall be deemed waved unities made in writing and increased by client for analyses. All claims, including those for incertain analyses, including, writing table for increase shall be assessed waved units in analyses of units approximations, business interimptions, business including those for increases and any other table for increases and increases and analyses, including, which is approximately analyses in the performance strend esconder of the services here here and the performance of the services here here and the performance of the services.

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Celey D. Keene, Lab Director/Quality Manager

### **CARDINAL** Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### 101 East Marland, Hobbs, NM 88240 (575) 393-2728 FAX (575) 393-2476

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Received by OCD: 12/30/2020 12:30:06 PM

Page 7 of 7



December 29, 2020

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

RE: WBDU 144H

Enclosed are the results of analyses for samples received by the laboratory on 12/28/20 10:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Received by OCD: 12/30/2020 12:30:06 PM

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/28/2020	Sampling Date:	12/28/2020
Reported:	12/29/2020	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

### Sample ID: H2 (H003341-01)

BTEX 8021B	mg;	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
8enzene*	< 0.050	0.050	12/28/2020	ND	2.05	102	2.00	2.61	QR-03
Toluene*	<0.050	0.050	12/28/2020	ND	1.95	97,4	2.00	1.19	QR-03
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.03	102	2.00	2.50	
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.79	96.5	6.00	2.12	
Total BTEX	<0,300	0.300	12/28/2020	ND					

73.3-129

Surrogate: 4-Bromofluorobenzene (PIL 100 %

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/28/2020	ND	400	100	400	0.00	4	
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	12/28/2020	ND	209	105	200	3.42		
DRO >C10-C28*	< 10.0	10.0	12/28/2020	ND	204	102	200	1.42		
EXT DRO >C28-C36	<10.0	10.0	12/28/2020	ND						
Surrogate: 1-Chloronctane	\$1.1	% 44.3-14	4							
Surrogate: 1-Chlorooctadecane	75.2	% 42.2-15	6							

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PLEASE MOTE Lability and Damages. Cardinal's labolity and diverts evolusive remedy for any daim ansing, whether based in contract or tort, shall be limited to the amount paid by crent for analyses. All chains, including those for negligence and any other cause whatsoever shall be detended which divers made in writing and increved by (cauch) within thirty. (30) days after completion of the approache service. In no evert shall Cardinal be lister for woodental or consequential diamages, including, which is mitting and increved by (cauch) within thirty. (30) days after completion of the approache service. In no evert shall Cardinal be lister for woodental or consequential diamages, withing withing, which is mitting and or consequential diamages. All chains, building withing thirty. (31) days after completion of the approache service. In no evert shall Cardinal be lister for woodental or consequential diamages, withing thirty. (30) days after completion of the approache service. In no evert shall Cardinal be lister for woodental or consequential diamages, withing thirty. (30) days after completion of the approache service is the service service of the service service service of the service service of the service service of the

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Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



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

Received:	12/28/2020	Sampling Date:	12/28/2020
Reported:	12/29/2020	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

### Sample ID: H4 (H003341-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/28/2020	ND	2.05	102	2,00	2.61		
Toluene*	<0.050	0.050	12/28/2020	ND	1.95	97.4	2.00	1.19		
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.03	102	2,00	2.50		
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.79	96.5	6.00	2.12		
Total BTEX	<0.300	0.300	12/28/2020	ND						
Surrogate: 4-Bromofluorobenzene (PIL	100 5	% 73.3-12	9							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/28/2020	ND	400	100	400	11.3		
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	12/28/2020	ND	209	105	200	3.42		
DRO >C10-C28*	<10.0	10.0	12/28/2020	ND	204	102	200	1.42		
EXT DRO >C28-C36	<10.0	10.0	12/28/2020	ND						
Surrogate: 1-Chlorooctane	83.7	% 44.3-14	4							
Surrogate: 1-Chlorooctadecane	77.2	% 42.2-15	6							

### Cardinal Laboratories

PLEASE MOTE: LubMdw and Damages. Cardinals leasts, and dients evolusive remedy for any daim ansing, whether based in contrast or tort, shall be lamited to the amount paid by chent for analyses. All cavins, including those for negigence and any other cause whitsbeare shall be deemed worked unless made in writing and received by cleanal writing through data advanges, including, writing, writing to deemed worked unless made in writing and received by cleanal writing through data advanges, including, writing, writing too, bits of use, or loss of uses or profits included by clean, estimate advanges, demis based upon ally of the above stated reasons or otherwase. Results relate only to the same's estimate advanges in all note interview and later advantable advanges.

Celleg T. Kinne -

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte

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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 LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### Cardinal Laboratories

### \*=Accredited Analyte

PLEASE NOTE: Labler and Damages. Cardinal's analyses and diverts eviduavie remedy for any daim ansing, whether based in contract or tort, shall be lamited to the amount paid by client for analyses. All claims, including dose for negigence and any other cause whatscever shall be deemed warved unless made in writing and necessed by Cardinal's within thirty. (30) days after completion of the applicable sen ce. In no event shall Cardinal be lable for incidental damages, including, without lamitsoon, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affikates or successors answing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such caim is based upon **Arv of th** approval of Cardinal-taboress.

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Celey D. Keene, Lab Director/Quality Manager

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Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Mith     Call and the second sec	Relinquished By: Addr Russon Relinquished By:	- H2 2 H4	HOC 9241	Sampler Name: JEG	Project Location: 1/304	Project Name: USOC	Project #:	Phone 1.	City:	Address:	Project Manager: /	Company Name:
Image: Solution of the soluti	110:3(		Sample I.D.	e Breem	¥			Faxet	State:		Bruce Baker	such Curporation
ICE / COOL OTHER: UP III INTER: INTER	5		CONTAINERS GROUNDWATER WASTEWATER SOIL OL	IN TON			THE .		Zip;			
Plux Ze CI-	lenson	lighter Inder	ACID/BASE: ICE / COOL OTHER :		Phone #:		City:	Address:	Athr	Company:	P.O. #	OT THE
ANALYSIS REQU EXT. THH BO MART Press & ANTI Fax 8: ANTI Fax 8: ANTI Fax 8: A ANTI Fax	Pur Part DYA	77	CL-									
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	WBDU 1444 Delineation 12/10/20
	SP1 @ Sufface - 32.484055, -103.183244
	10.1/30.3 = 3 = 3.61 = 10,286
	SP2@1'
38	10.5/30.12 7.86 2.78 = 2,230
	H1 - 32. 483942, -103. 183770
	10.6/ 30.3= 2.85= .08= 227
	HZ - 32. 48412, -103. 18329
	10.6/70.3 = 7.85 = .04 = 113
2005	H3 - 32. 487155, -103. 183094
	10.4/30.3=2.51=.05= 145
•	HY - 32. 48406, -103. 18322
	10.0/30.1 = 3.01 = .20 = 601
	12/28/20 - Harizontals H2 +H4
	HZ - 32.487070, -103.183306
	10.3/30.0 = 2.41 = .05 = 145
	H4-32.487428, -113. 183267
	10.0/3-2-3.02 =.05 = 150

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Received by OCD: 12/30/2020 12:30:06 PM

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CONDITIONS

Action 11730

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 OF APPROVAL

Operator: APACHE CORPORATION	303 Veterans Airpark Ln	OGRID: 873	Action Number: 11730	Action Type: C-141
#1000 Midland, TX79705				
			•	
OCD Reviewer		Condition		
ceads		None		