



303 Veterans Airpark Lane Midland, TX 79705

## **Remediation Plan**

June 6, 2023

Re: WBDU CTB  
Case nAPP2302353335

### **Background:**

On 1/6/2023 a release occurred due a dump valve failure resulting in a tank to overfill. The release (GPS: 32.3440925, -103.2259918) is located south of Eunice, New Mexico in unit letter D section 16 township 21S range 37E. A groundwater survey was conducted utilizing NMOSE wells of record and USGS well data from OCD GIS map. All documented wells in the vicinity of the release were 51-100 feet to groundwater with the nearest well at 70 feet. A plan was submitted and rejected by OCD due to depth of groundwater has not been adequately determined. Apache Corporation believes that the depth of groundwater is adequate but will remediate the release to table one standards for release less than 50 feet in lieu of drilling to determine depth of water.

On 2/14/2023 vertical delineation was conducted at SP1-3 to a depth of 2 and 2.5 feet. 5-point surface horizontal sample was collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On 5/17/2023 discrete grab horizontal samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

### **Remediation Plan:**

Apache Corporation proposes that the release area be excavated to a depth of 2 feet. Final 5-point bottom composite samples will be collected not to exceed 200 square feet. Final 5-point wall composite samples will be collected not to exceed 200 square feet. All samples collected will be submitted a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated soil (260 yards) will be hauled to an OCD approved disposal facility. Once laboratory analysis is below table one standards for releases less than 50 feet to groundwater. The excavation will be backfilled with clean imported caliche to ground surface. The remediation will be completed within 90 days of OCD approval of the plan.

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

Submitted by.

*Larry Baker*

**Environmental Technician Sr. Staff**

[larry.baker@apachecorp.com](mailto:larry.baker@apachecorp.com)

**Cell# 432-250-8384**

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

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico  
Oil Conservation Division

Page 4

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

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

Printed Name: Larry Baker Title: Environmental Tech Sr. Staff  
Signature: Larry Baker Date: 6/6/2023  
email: larry.baker@apachecorp.com Telephone: 432-818-1654

**OCD Only**

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

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

## Remediation Plan

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

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech Sr. Staff  
Signature: Larry Baker Date: 6/6/2023  
email: larry.baker@apachecorp.com Telephone: 432-818-1654

**OCD Only**

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

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

Signature: Nelson Velez Date: 08/31/2023

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**To:** [Baker, Larry](#)  
**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 200024  
**Date:** Thursday, April 27, 2023 11:38:50 AM

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To whom it may concern (c/o Larry Baker for APACHE CORPORATION),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2302353335, for the following reasons:

- **Remediation Plan Denied.** The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than two hundred (200) square feet. Horizontal delineation samples cannot be comprised of 5-pt composite samples, but depth discrete samples. Please resubmit a revised Remediation Plan by May 27, 2023.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 200024.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,  
Jennifer Nobui  
Environmental Specialist-Advanced  
505-470-3407  
[Jennifer.Nobui@emnrd.nm.gov](mailto:Jennifer.Nobui@emnrd.nm.gov)

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

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# 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 01026 | POD1       | 1   | 1   | 3  | 17  | 21S | 37E | 669809 | 3594958 |

|                          |                   |                             |                   |                                |
|--------------------------|-------------------|-----------------------------|-------------------|--------------------------------|
| <b>Driller License:</b>  | 1626              | <b>Driller Company:</b>     | TAYLOR, ROY ALLEN |                                |
| <b>Driller Name:</b>     | TAYLOR, ROY ALLEN |                             |                   |                                |
| <b>Drill Start Date:</b> | 10/12/2009        | <b>Drill Finish Date:</b>   | 10/14/2009        | <b>Plug Date:</b>              |
| <b>Log File Date:</b>    | 10/23/2009        | <b>PCW Rev Date:</b>        |                   | <b>Source:</b> Shallow         |
| <b>Pump Type:</b>        |                   | <b>Pipe Discharge Size:</b> |                   | <b>Estimated Yield:</b> 25 GPM |
| <b>Casing Size:</b>      | 5.14              | <b>Depth Well:</b>          | 167 feet          | <b>Depth Water:</b> 95 feet    |

| Water Bearing Stratifications: | Top | Bottom | Description                   |
|--------------------------------|-----|--------|-------------------------------|
|                                | 95  | 167    | Sandstone/Gravel/Conglomerate |

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.

3/23/23 7:19 AM

POINT OF DIVERSION SUMMARY



# 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 00554   | 2   | 2   | 16 | 21S | 37E | 672744 | 3595610* | <input type="checkbox"/> |

|                          |               |                             |               |                             |
|--------------------------|---------------|-----------------------------|---------------|-----------------------------|
| <b>Driller License:</b>  | 208           | <b>Driller Company:</b>     | VAN NOY, W.L. |                             |
| <b>Driller Name:</b>     | VAN NOY, W.L. |                             |               |                             |
| <b>Drill Start Date:</b> | 06/01/1976    | <b>Drill Finish Date:</b>   | 06/05/1976    | <b>Plug Date:</b>           |
| <b>Log File Date:</b>    | 04/05/1977    | <b>PCW Rev Date:</b>        |               | <b>Source:</b> Shallow      |
| <b>Pump Type:</b>        |               | <b>Pipe Discharge Size:</b> |               | <b>Estimated Yield:</b>     |
| <b>Casing Size:</b>      | 5.00          | <b>Depth Well:</b>          | 80 feet       | <b>Depth Water:</b> 70 feet |

| Water Bearing Stratifications: | Top | Bottom | Description                   |
|--------------------------------|-----|--------|-------------------------------|
|                                | 75  | 80     | Sandstone/Gravel/Conglomerate |

| Casing Perforations: | Top | Bottom |
|----------------------|-----|--------|
|                      | 64  | 80     |

\*UTM location was derived from PLSS - see Help

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.

3/23/23 7:18 AM

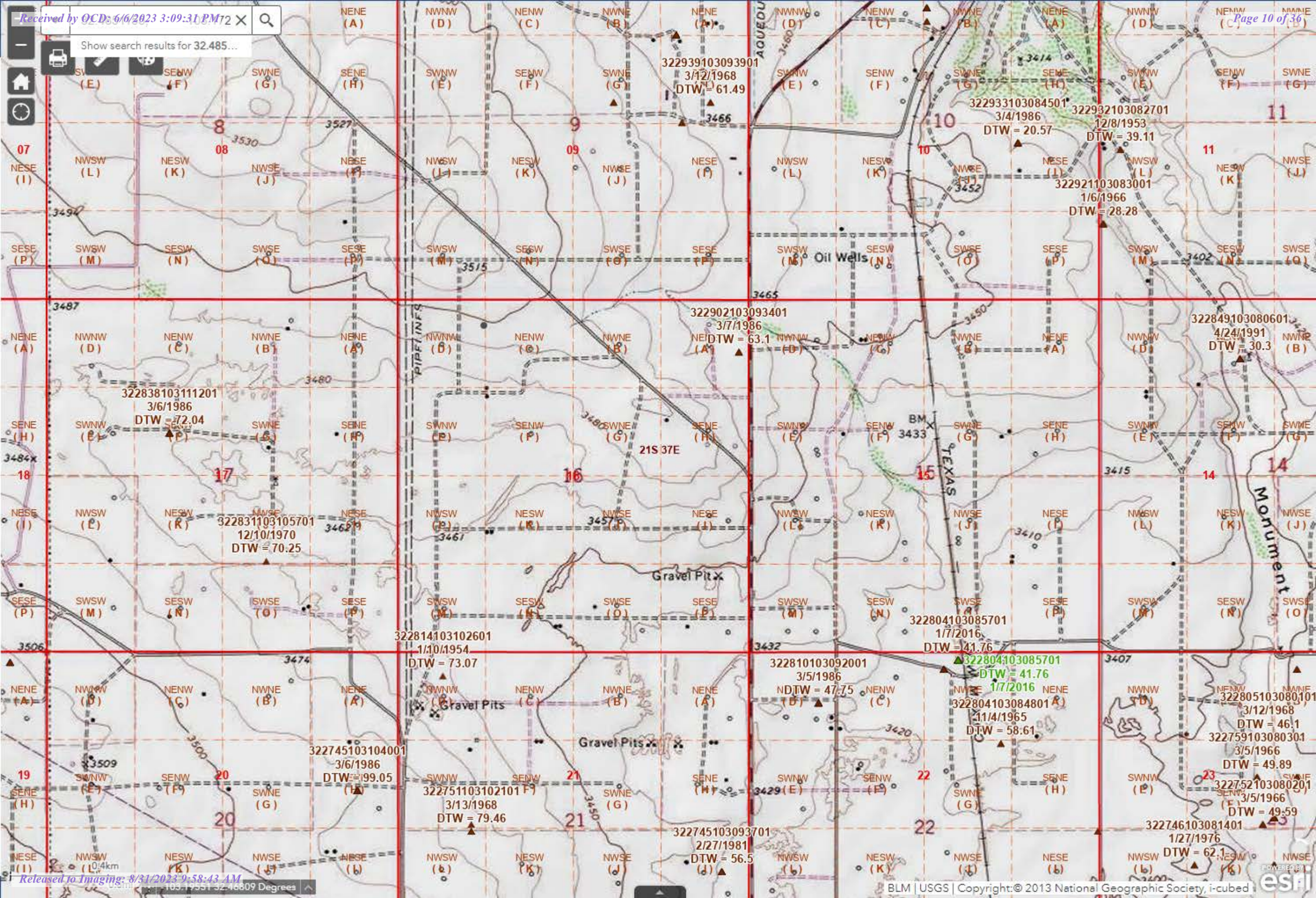
POINT OF DIVERSION SUMMARY



31/2023 9:58:43 AM NWNE  
- 103.19628 32.46900 Degrees



Show search results for 32.485...





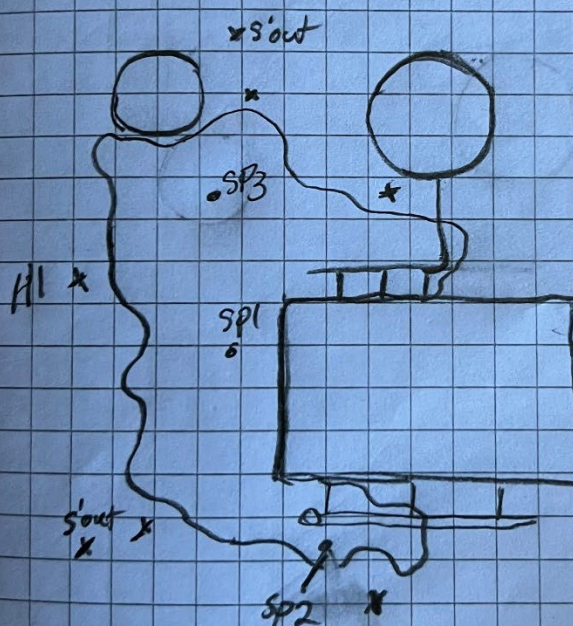
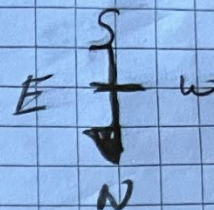




Feb 14 2023

WB DU CTB

sp1 32.4851155-103.1723962  
sp2 32.4852690-103.1724586  
sp3 32.4850323-103.1724164  
H1 32.4850764-103.1723177



## Delineation Samples

| Sample Date | Sample ID | Depth   | Chloride Lab | Benzene | Toulene | Ethybenzene | Total Xylenes | Total BTEX | GRO   | DRO    | EXT DRO | GPS Coordinates             |
|-------------|-----------|---------|--------------|---------|---------|-------------|---------------|------------|-------|--------|---------|-----------------------------|
| 2/14/2023   | SP1       | Surface | 2,840        | 14.5    | 147     | 112         | 306           | 576        | 9,170 | 30,300 | 3,600   | 32.4851155,<br>-103.1723962 |
|             |           | 1'      | 760          | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | 20     | <10.0   |                             |
|             |           | 2'      | 96           | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0  | <10.0   |                             |
| 2/14/2023   | SP2       | Surface | 320          | 3.62    | 48.8    | 39.7        | 119           | 211        | 3,450 | 11,000 | 1,540   | 32.4852690,<br>-103.1724586 |
|             |           | 1'      | 240          | 0.859   | 13.4    | 11.5        | 33.8          | 59.5       | 743   | 1,630  | 323     |                             |
|             |           | 2'      | 128          | 0.052   | 0.118   | <0.050      | <0.150        | <0.300     | <10.0 | <10.0  | <10.0   |                             |
| 2/14/2023   | SP3       | Surface | 368          | 18.8    | 113     | 59.7        | 162           | 353        | 5,680 | 12,600 | 1,280   | 32.4850323,<br>-103.1724166 |
|             |           | 1'      | 128          | 0.67    | 6.58    | 5.68        | 15.7          | 28.6       | 243   | 818    | 143     |                             |
|             |           | 2'      | 160          | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | 35     | <10.0   |                             |
|             |           | 2.5'    | 240          | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0  | <10.0   |                             |
| 2/14/2023   | H1        | Surface | 320          | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0  | <10.0   | 32.4850764,<br>-103.1723177 |
| 5/17/2023   | H1        | 6"      | 320          | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0  | <10.0   | 32.485295,<br>-103.172457   |
| 5/17/2023   | H2        | 6"      | 160          | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0  | <10.0   | 32.485129,<br>-103.172321   |
| 5/17/2023   | H3        | 6"      | 288          | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0  | <10.0   | 32.484984,<br>-103.172421   |
| 5/17/2023   | H4        | 6"      | 288          | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0  | <10.0   | 32.485058,<br>-103.172474   |
|             |           |         |              |         |         |             |               |            |       |        |         |                             |
|             |           |         |              |         |         |             |               |            |       |        |         |                             |
|             |           |         |              |         |         |             |               |            |       |        |         |                             |
|             |           |         |              |         |         |             |               |            |       |        |         |                             |
|             |           |         |              |         |         |             |               |            |       |        |         |                             |
|             |           |         |              |         |         |             |               |            |       |        |         |                             |
|             |           |         |              |         |         |             |               |            |       |        |         |                             |
|             |           |         |              |         |         |             |               |            |       |        |         |                             |
|             |           |         |              |         |         |             |               |            |       |        |         |                             |
|             |           |         |              |         |         |             |               |            |       |        |         |                             |



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

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February 21, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/14/23 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 02/14/2023  
 Reported: 02/21/2023  
 Project Name: WBDU CTB  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 02/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 SURFACE (H230697-01)**

| BTX 8021B             |             | mg/kg           |            | Analyzed By: JH |      |            |               | S-04   |           |
|-----------------------|-------------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte               | Result      | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| <b>Benzene*</b>       | <b>14.5</b> | 1.00            | 02/19/2023 | ND              | 2.08 | 104        | 2.00          | 0.0278 |           |
| <b>Toluene*</b>       | <b>147</b>  | 1.00            | 02/19/2023 | ND              | 2.04 | 102        | 2.00          | 0.735  |           |
| <b>Ethylbenzene*</b>  | <b>112</b>  | 1.00            | 02/19/2023 | ND              | 1.97 | 98.3       | 2.00          | 0.992  |           |
| <b>Total Xylenes*</b> | <b>306</b>  | 3.00            | 02/19/2023 | ND              | 6.01 | 100        | 6.00          | 1.04   |           |
| <b>Total BTX</b>      | <b>579</b>  | 6.00            | 02/19/2023 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 156 % 71.5-134

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>2840</b> | 16.0            | 02/16/2023 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M                  |              | mg/kg           |            | Analyzed By: MS |     |            |               | S-06  |           |
|----------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte                    | Result       | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| <b>GRO C6-C10*</b>         | <b>9170</b>  | 50.0            | 02/17/2023 | ND              | 209 | 105        | 200           | 0.828 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>30300</b> | 50.0            | 02/17/2023 | ND              | 199 | 99.5       | 200           | 0.478 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>3600</b>  | 50.0            | 02/17/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 484 % 48.2-134

Surrogate: 1-Chlorooctadecane 614 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/14/2023  
 Reported: 02/21/2023  
 Project Name: WBDU CTB  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 02/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 1' (H230697-02)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |        |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/19/2023 | ND              | 2.08 | 104        | 2.00          | 0.0278 |           |
| Toluene*       | 0.054  | 0.050           | 02/19/2023 | ND              | 2.04 | 102        | 2.00          | 0.735  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/19/2023 | ND              | 1.97 | 98.3       | 2.00          | 0.992  |           |
| Total Xylenes* | <0.150 | 0.150           | 02/19/2023 | ND              | 6.01 | 100        | 6.00          | 1.04   |           |
| Total BTEx     | <0.300 | 0.300           | 02/19/2023 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 760    | 16.0            | 02/16/2023 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M               |             | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte                 | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*             | <10.0       | 10.0            | 02/17/2023 | ND              | 209 | 105        | 200           | 0.828 |           |
| <b>DRO &gt;C10-C28*</b> | <b>19.6</b> | 10.0            | 02/17/2023 | ND              | 199 | 99.5       | 200           | 0.478 |           |
| EXT DRO >C28-C36        | <10.0       | 10.0            | 02/17/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/14/2023  
 Reported: 02/21/2023  
 Project Name: WBDU CTB  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 02/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 2' (H230697-03)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |        |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 02/19/2023 | ND              | 2.08 | 104        | 2.00          | 0.0278 |           |  |
| Toluene*       | <0.050 | 0.050           | 02/19/2023 | ND              | 2.04 | 102        | 2.00          | 0.735  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 02/19/2023 | ND              | 1.97 | 98.3       | 2.00          | 0.992  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 02/19/2023 | ND              | 6.01 | 100        | 6.00          | 1.04   |           |  |
| Total BTX      | <0.300 | 0.300           | 02/19/2023 | ND              |      |            |               |        |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 96.0   | 16.0            | 02/16/2023 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 02/17/2023 | ND              | 209 | 105        | 200           | 0.828 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/17/2023 | ND              | 199 | 99.5       | 200           | 0.478 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/17/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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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: 02/14/2023  
 Reported: 02/21/2023  
 Project Name: WBDU CTB  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 02/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 SURFACE (H230697-04)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |        |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*       | 3.62   | 2.00            | 02/19/2023 | ND              | 2.08 | 104        | 2.00          | 0.0278 |           |
| Toluene*       | 48.8   | 2.00            | 02/19/2023 | ND              | 2.04 | 102        | 2.00          | 0.735  |           |
| Ethylbenzene*  | 39.7   | 2.00            | 02/19/2023 | ND              | 1.97 | 98.3       | 2.00          | 0.992  |           |
| Total Xylenes* | 119    | 6.00            | 02/19/2023 | ND              | 6.01 | 100        | 6.00          | 1.04   |           |
| Total BTEX     | 211    | 12.0            | 02/19/2023 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |                 | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 320    | 16.0            | 02/16/2023      | ND              | 416 | 104        | 400           | 3.77 |           |
| TPH 8015M            | mg/kg  |                 | Analyzed By: MS |                 |     |            |               |      | S-06      |

| Analyte                    | Result       | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD   | Qualifier |
|----------------------------|--------------|-----------------|------------|--------------|-----|------------|---------------|-------|-----------|
| <b>GRO C6-C10*</b>         | <b>3450</b>  | 50.0            | 02/17/2023 | ND           | 209 | 105        | 200           | 0.828 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>11000</b> | 50.0            | 02/17/2023 | ND           | 199 | 99.5       | 200           | 0.478 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>1540</b>  | 50.0            | 02/17/2023 | ND           |     |            |               |       |           |

Surrogate: 1-Chlorooctane 258 % 48.2-134

Surrogate: 1-Chlorooctadecane 209 % 49.1-148

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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: 02/14/2023  
 Reported: 02/21/2023  
 Project Name: WBDU CTB  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 02/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 1' (H230697-05)**

| BTX 8021B             |              | mg/kg           | Analyzed By: JH |              |      |            |               | S-04   |           |
|-----------------------|--------------|-----------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte               | Result       | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| <b>Benzene*</b>       | <b>0.859</b> | 0.200           | 02/20/2023      | ND           | 2.08 | 104        | 2.00          | 0.0278 |           |
| <b>Toluene*</b>       | <b>13.4</b>  | 0.200           | 02/20/2023      | ND           | 2.04 | 102        | 2.00          | 0.735  |           |
| <b>Ethylbenzene*</b>  | <b>11.5</b>  | 0.200           | 02/20/2023      | ND           | 1.97 | 98.3       | 2.00          | 0.992  |           |
| <b>Total Xylenes*</b> | <b>33.8</b>  | 0.600           | 02/20/2023      | ND           | 6.01 | 100        | 6.00          | 1.04   |           |
| <b>Total BTX</b>      | <b>59.5</b>  | 1.20            | 02/20/2023      | ND           |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 135 % 71.5-134

| Chloride, SM4500CI-B |            | mg/kg           | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>240</b> | 16.0            | 02/16/2023      | ND           | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M                  |             | mg/kg           | Analyzed By: MS |              |     |            |               |       |           |
|----------------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|-------|-----------|
| Analyte                    | Result      | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| <b>GRO C6-C10*</b>         | <b>743</b>  | 50.0            | 02/17/2023      | ND           | 209 | 105        | 200           | 0.828 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>1630</b> | 50.0            | 02/17/2023      | ND           | 199 | 99.5       | 200           | 0.478 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>323</b>  | 50.0            | 02/17/2023      | ND           |     |            |               |       |           |

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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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: 02/14/2023  
 Reported: 02/21/2023  
 Project Name: WBDU CTB  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 02/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 2' (H230697-06)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |        |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*       | 0.052  | 0.050           | 02/19/2023 | ND              | 2.08 | 104        | 2.00          | 0.0278 |           |
| Toluene*       | 0.118  | 0.050           | 02/19/2023 | ND              | 2.04 | 102        | 2.00          | 0.735  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/19/2023 | ND              | 1.97 | 98.3       | 2.00          | 0.992  |           |
| Total Xylenes* | <0.150 | 0.150           | 02/19/2023 | ND              | 6.01 | 100        | 6.00          | 1.04   |           |
| Total BTEx     | <0.300 | 0.300           | 02/19/2023 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 02/16/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 02/17/2023 | ND              | 209 | 105        | 200           | 0.828 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/17/2023 | ND              | 199 | 99.5       | 200           | 0.478 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/17/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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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: 02/14/2023  
 Reported: 02/21/2023  
 Project Name: WBDU CTB  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 02/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 SURFACE (H230697-07)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |        |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*       | 18.8   | 2.00            | 02/19/2023 | ND              | 2.08 | 104        | 2.00          | 0.0278 |           |
| Toluene*       | 113    | 2.00            | 02/19/2023 | ND              | 2.04 | 102        | 2.00          | 0.735  |           |
| Ethylbenzene*  | 59.7   | 2.00            | 02/19/2023 | ND              | 1.97 | 98.3       | 2.00          | 0.992  |           |
| Total Xylenes* | 162    | 6.00            | 02/19/2023 | ND              | 6.01 | 100        | 6.00          | 1.04   |           |
| Total BTEx     | 353    | 12.0            | 02/19/2023 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |                 | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 368    | 16.0            | 02/16/2023      | ND              | 416 | 104        | 400           | 3.77 |           |
| TPH 8015M            | mg/kg  |                 | Analyzed By: MS |                 |     |            |               |      | S-06      |

| Analyte                    | Result       | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD   | Qualifier |
|----------------------------|--------------|-----------------|------------|--------------|-----|------------|---------------|-------|-----------|
| <b>GRO C6-C10*</b>         | <b>5680</b>  | 50.0            | 02/17/2023 | ND           | 209 | 105        | 200           | 0.828 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>12600</b> | 50.0            | 02/17/2023 | ND           | 199 | 99.5       | 200           | 0.478 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>1280</b>  | 50.0            | 02/17/2023 | ND           |     |            |               |       |           |

Surrogate: 1-Chlorooctane 286 % 48.2-134

Surrogate: 1-Chlorooctadecane 240 % 49.1-148

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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: 02/14/2023  
 Reported: 02/21/2023  
 Project Name: WBDU CTB  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 02/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 1' (H230697-08)**

| BTEX 8021B            |              | mg/kg           | Analyzed By: JH |              |      |            |               | S-04   |           |
|-----------------------|--------------|-----------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte               | Result       | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| <b>Benzene*</b>       | <b>0.670</b> | 0.050           | 02/19/2023      | ND           | 2.08 | 104        | 2.00          | 0.0278 |           |
| <b>Toluene*</b>       | <b>6.56</b>  | 0.050           | 02/19/2023      | ND           | 2.04 | 102        | 2.00          | 0.735  |           |
| <b>Ethylbenzene*</b>  | <b>5.68</b>  | 0.050           | 02/19/2023      | ND           | 1.97 | 98.3       | 2.00          | 0.992  |           |
| <b>Total Xylenes*</b> | <b>15.7</b>  | 0.150           | 02/19/2023      | ND           | 6.01 | 100        | 6.00          | 1.04   |           |
| <b>Total BTEX</b>     | <b>28.6</b>  | 0.300           | 02/19/2023      | ND           |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 188 % 71.5-134

| Chloride, SM4500CI-B |            | mg/kg           | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>128</b> | 16.0            | 02/16/2023      | ND           | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M                  |            | mg/kg           | Analyzed By: MS |              |     |            |               | S-04  |           |
|----------------------------|------------|-----------------|-----------------|--------------|-----|------------|---------------|-------|-----------|
| Analyte                    | Result     | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| <b>GRO C6-C10*</b>         | <b>243</b> | 10.0            | 02/16/2023      | ND           | 204 | 102        | 200           | 0.299 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>818</b> | 10.0            | 02/16/2023      | ND           | 186 | 93.0       | 200           | 1.26  | QM-07     |
| <b>EXT DRO &gt;C28-C36</b> | <b>143</b> | 10.0            | 02/16/2023      | ND           |     |            |               |       |           |

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 155 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/14/2023  
 Reported: 02/21/2023  
 Project Name: WBDU CTB  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 02/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 2' (H230697-09)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |        |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/19/2023 | ND              | 2.08 | 104        | 2.00          | 0.0278 |           |
| Toluene*       | <0.050 | 0.050           | 02/19/2023 | ND              | 2.04 | 102        | 2.00          | 0.735  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/19/2023 | ND              | 1.97 | 98.3       | 2.00          | 0.992  |           |
| Total Xylenes* | <0.150 | 0.150           | 02/19/2023 | ND              | 6.01 | 100        | 6.00          | 1.04   |           |
| Total BTX      | <0.300 | 0.300           | 02/19/2023 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

| 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            | 02/16/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 02/16/2023 | ND              | 204 | 102        | 200           | 0.299 |           |
| DRO >C10-C28*    | 35.0   | 10.0            | 02/16/2023 | ND              | 186 | 93.0       | 200           | 1.26  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/16/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/14/2023  
 Reported: 02/21/2023  
 Project Name: WBDU CTB  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 02/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 2' 5" (H230697-10)**

| BTEx 8021B     |        |                 | mg/kg      |              | Analyzed By: JH |            |               |        |           |  |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|--------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD    | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 02/19/2023 | ND           | 2.08            | 104        | 2.00          | 0.0278 |           |  |
| Toluene*       | <0.050 | 0.050           | 02/19/2023 | ND           | 2.04            | 102        | 2.00          | 0.735  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 02/19/2023 | ND           | 1.97            | 98.3       | 2.00          | 0.992  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 02/19/2023 | ND           | 6.01            | 100        | 6.00          | 1.04   |           |  |
| Total BTEx     | <0.300 | 0.300           | 02/19/2023 | ND           |                 |            |               |        |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 240    | 16.0            | 02/16/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 02/16/2023 | ND              | 204 | 102        | 200           | 0.299 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/16/2023 | ND              | 186 | 93.0       | 200           | 1.26  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/16/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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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: 02/14/2023  
 Reported: 02/21/2023  
 Project Name: WBDU CTB  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 02/14/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 1 (H230697-11)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |        |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/19/2023 | ND              | 2.08 | 104        | 2.00          | 0.0278 |           |
| Toluene*       | <0.050 | 0.050           | 02/19/2023 | ND              | 2.04 | 102        | 2.00          | 0.735  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/19/2023 | ND              | 1.97 | 98.3       | 2.00          | 0.992  |           |
| Total Xylenes* | <0.150 | 0.150           | 02/19/2023 | ND              | 6.01 | 100        | 6.00          | 1.04   |           |
| Total BTEX     | <0.300 | 0.300           | 02/19/2023 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 320    | 16.0            | 02/16/2023 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 02/16/2023 | ND              | 204 | 102        | 200           | 0.299 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/16/2023 | ND              | 186 | 93.0       | 200           | 1.26  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/16/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

|       |  |
|-------|--|
| S-06  | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.         |
| S-04  | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.   |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.                               |
| ND    | Analyte NOT DETECTED at or above the reporting limit   |
| RPD   | Relative Percent Difference  |
| **    | Samples not received at proper temperature of 6°C or below.  |
| ***   | Insufficient time to reach temperature.  |
| -     | Chloride by SM4500Cl-B does not require samples be received at or below 6°C<br>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 "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: <u>Apache</u>                           |             |                  |              | <b>BILL TO</b> |            |      |     | <b>ANALYSIS REQUEST</b> |          |            |  |  |  |        |  |  |            |        |      |        |
| Project Manager: <u>B. Baker</u>                      |             |                  |              | P.O. #:        |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      |        |
| Address:  |             |                  |              | Company:       |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      |        |
| City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> |             |                  |              | Attn:          |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      |        |
| Phone #:  |             |                  |              | Address:       |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      |        |
| Project #:  |             |                  |              | City:          |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      |        |
| Project Name:   |             |                  |              | State: Zip:    |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      |        |
| Project Location: <u>W BDU CTB</u>                    |             |                  |              | Phone #:       |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      |        |
| Sampler Name: <u>Jose Quesada</u>                     |             |                  |              | Fax #:         |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      |        |
| FOR LAB USE ONLY                                      |             |                  |              |                |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      |        |
| Lab I.D.  | Sample I.D. | (GRAB OR (C)OMP. | # CONTAINERS | MATRIX         |            |      |     | PRESERV.                | SAMPLING |            | <u>C</u><br><u>BTEX</u><br><u>EXT PH</u> |  |  |        |  |  |            |        |      |        |
|   |             |                  |              | GROUNDWATER    | WASTEWATER | SOIL | OIL | SLUDGE                  | OTHER:   | ACID/BASE: |  |  |  |        |  |  | ICE / COOL | OTHER: | DATE | TIME   |
| <u>H230097</u>  |             |                  |              |                |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      |        |
| 1   | SP1 surface | G                | 1            |                |            |      |     |                         |          |            |  |  |  |        |  |  |            |        | 2/14 | 1:16pm |
| 2   | SP1 @ 1'    | G                | 1            |                |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      | 1:18pm |
| 3   | SP1 @ 2'    | G                | 1            |                |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      | 1:20pm |
| 4   | SP2 surface | G                | 1            |                |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      | 1:22pm |
| 5   | SP2 @ 1'    | G                | 1            |                |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      | 1:24pm |
| 6   | SP2 @ 2'    | G                | 1            |                |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      | 1:26pm |
| 7   | SP3 surface | G                | 1            |                |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      | 1:28pm |
| 8   | SP3 @ 1'    | G                | 1            |                |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      | 1:30pm |
| 9   | SP3 @ 2'    | G                | 1            |                |            |      |     |                         |          |            |  |  |  |        |  |  |            |        |      | 1:32pm |
| 10  | SP3 @ 2' 5" | G                | 1            |                |            |      |     |                         |          |            |  |  |  | 1:34pm |  |  |            |        |      |        |

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|                              |                               |   |  |
|------------------------------|-------------------------------|---|--|
| Relinquished By:             | Date: <u>2/14/23</u>          | Received By:  | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:   |
| <u>Jose Quesada</u>          | Time: <u>3:55pm</u>           | <u>Amara Oldaker</u>  | All Results are emailed. Please provide Email address:   |
| Relinquished By:             | Date:                         | Received By:  | REMARKS:   |
|                              | Time:                         |   | <u>E. Mail Results</u>   |
| Delivered By: (Circle One)   | Observed Temp. °C <u>44</u>   | Sample Condition  | Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush  |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C <u>3.8</u> | <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact<br><input type="checkbox"/> Yes <input type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No | Bacteria (only) Sample Condition<br>Cool Intact Observed Temp. °C<br><input type="checkbox"/> Yes <input type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C |
| FORM-006 R 3.3 07/16/22      |                               | CHECKED BY: (Initials) <u>JEQ</u>   | Thermometer ID #113<br>Correction Factor -0.6°C  |

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



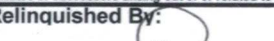
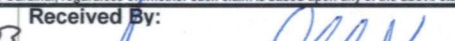


101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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|   |  |                        |  |  |  |   |  |
|---|--|------------------------|--|--|--|---|--|
| Relinquished By:  |  | Date: 4/14/23          |  | Received By:                     |  | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____  |  |
| Relinquished By:  |  | Time: 3:55pm           |  | Time:  |  | All Results are emailed. Please provide Email address: _____  |  |
| Relinquished By:  |  | Date:                  |  | Received By:   |  | REMARKS: E-Mail Results   |  |
| Time:   |  |                        |  |  |  |   |  |
| Delivered By: (Circle One)  |  | Observed Temp. °C 4.4  |  | Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>                            |  | CHECKED BY: (Initials) JO   |  |
| Sampler - UPS - Bus - Other:  |  | Corrected Temp. °C 3.8 |  | <input type="checkbox"/> Yes <input type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No |  | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/><br>Thermometer ID #113<br>Correction Factor -0.6°C  |  |
|   |  |                        |  |  |  | Bacteria (only) Sample Condition Cool Intact Observed Temp. °C<br><input type="checkbox"/> Yes <input type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C |  |

~~FORM-006 R 3.3 07/18/22~~

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

May 23, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/17/23 15:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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: 05/17/2023  
 Reported: 05/23/2023  
 Project Name: WBDU CTB  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 05/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H1 6" (H232502-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/23/2023 | ND              | 2.36 | 118        | 2.00          | 4.23 |           |
| Toluene*       | <0.050 | 0.050           | 05/23/2023 | ND              | 2.32 | 116        | 2.00          | 4.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/23/2023 | ND              | 2.25 | 113        | 2.00          | 4.65 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/23/2023 | ND              | 6.87 | 114        | 6.00          | 3.07 |           |
| Total BTEX     | <0.300 | 0.300           | 05/23/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 320    | 16.0            | 05/18/2023 | 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            | 05/19/2023 | ND              | 191 | 95.4       | 200           | 2.92 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/19/2023 | ND              | 186 | 92.8       | 200           | 7.40 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/19/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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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: 05/17/2023  
 Reported: 05/23/2023  
 Project Name: WBDU CTB  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 05/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H2 6" (H232502-02)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 05/20/2023 | ND              | 2.36 | 118        | 2.00          | 4.23 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/20/2023 | ND              | 2.32 | 116        | 2.00          | 4.90 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/20/2023 | ND              | 2.25 | 113        | 2.00          | 4.65 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/20/2023 | ND              | 6.87 | 114        | 6.00          | 3.07 |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/20/2023 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 160    | 16.0            | 05/18/2023 | 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            | 05/19/2023 | ND              | 191 | 95.4       | 200           | 2.92 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/19/2023 | ND              | 186 | 92.8       | 200           | 7.40 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/19/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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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: 05/17/2023  
 Reported: 05/23/2023  
 Project Name: WBDU CTB  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 05/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H3 6" (H232502-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/20/2023 | ND              | 2.36 | 118        | 2.00          | 4.23 |           |
| Toluene*       | <0.050 | 0.050           | 05/20/2023 | ND              | 2.32 | 116        | 2.00          | 4.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/20/2023 | ND              | 2.25 | 113        | 2.00          | 4.65 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/20/2023 | ND              | 6.87 | 114        | 6.00          | 3.07 |           |
| Total BTEX     | <0.300 | 0.300           | 05/20/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 288    | 16.0            | 05/18/2023 | 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            | 05/19/2023 | ND              | 164 | 81.9       | 200           | 1.15 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/19/2023 | ND              | 173 | 86.4       | 200           | 2.97 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/19/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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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: 05/17/2023  
 Reported: 05/23/2023  
 Project Name: WBDU CTB  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 05/17/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H4 6" (H232502-04)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/20/2023 | ND              | 2.36 | 118        | 2.00          | 4.23 |           |
| Toluene*       | <0.050 | 0.050           | 05/20/2023 | ND              | 2.32 | 116        | 2.00          | 4.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/20/2023 | ND              | 2.25 | 113        | 2.00          | 4.65 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/20/2023 | ND              | 6.87 | 114        | 6.00          | 3.07 |           |
| Total BTEx     | <0.300 | 0.300           | 05/20/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 288    | 16.0            | 05/18/2023 | 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            | 05/19/2023 | ND              | 164 | 81.9       | 200           | 1.15 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/19/2023 | ND              | 173 | 86.4       | 200           | 2.97 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/19/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 70.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

|      |  |
|------|--|
| BS-3 | Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.                            |
| 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<br>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 "Celey D. Keene".

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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

[illegible]

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|   |  |                               |  |   |  |  |  |
|---|--|-------------------------------|--|---|--|--|--|
| Relinquished By:<br><i>Suzi Quinone</i> |  | Date: <i>9/10/22</i>          |  | Received By:<br><i>Samira Rodriguez</i>   |  | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:   |  |
| Time: <i>3:52pm</i>                     |  | Time:                         |  | All Results are emailed. Please provide Email address:  |  |  |  |
| Relinquished By:                        |  | Date:                         |  | Received By:  |  | REMARKS:<br><i>2-Mail Results</i>  |  |
| Time:                                   |  | Time:                         |  | Time:   |  |  |  |
| Delivered By: (Circle One)              |  | Observed Temp. °C <i>4.9</i>  |  | Sample Condition<br>Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>                         |  | CHECKED BY:<br>(Initials)<br><i>T.</i>   |  |
| Sampler - UPS - Bus - Other:            |  | Corrected Temp. °C <i>4.3</i> |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No |  | Turnaround Time: <b>Standard</b> <input checked="" type="checkbox"/><br><b>Rush</b> <input type="checkbox"/>   |  |
| FORM-006 R 3.3 07/18/22                 |  |                               |  |   |  | Bacteria (only) Sample Condition<br>Cool <input type="checkbox"/> Intact <input type="checkbox"/><br>Observed Temp. °C<br><input type="checkbox"/> Yes <input type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No<br>Corrected Temp. °C |  |
|   |  |                               |  |   |  | Thermometer ID #113<br>Correction Factor -0.6°C  |  |

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



**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 224655

CONDITIONS

|   |   |
|---|---|
| Operator:<br><br>APACHE CORPORATION<br>303 Veterans Airpark Ln<br>Midland, TX 79705 | OGRID:<br><br>873   |
|   | Action Number:<br><br>224655                                  |
|   | Action Type:<br><br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition   | Condition Date |
|------------|---|----------------|
| nvelez     | Remediation plan approved as written. Apache has 60-days (October 30, 2023) to complete and submit the appropriate or final closure report. | 8/31/2023      |