



303 Veterans Airpark Lane Midland, TX 79705

## **Remediation Plan**

March 6, 2021

Re: NBTWEEN BATTERY  
Case # nAPP2035256502

### **Background:**

On 12/7/2020 a release occurred due to a fire tube failed on a heater treater. The release (GPS: 32.80780, -104.12436) is located east of Artesia, NM in unit letter H section 25 township 17S range 28E. A groundwater survey was conducted utilizing the NMOSE and USGS wells of record and a temporary well (GPS: 32.804896, -104.105169) drilled on 5/26/2011 1.1 miles southeast of the release. The well was advanced to a depth of 100 feet and set with 2 inch PVC casing and screen from 80 to 100 feet. On 6/28/2011 a Solinst Water Level Meter was utilized to check for water accumulation within the borehole. The meter indicated no water had accumulated to a total depth of 99.12 feet. This data suggest that the depth to groundwater beneath the release to be 51-100 feet.

On 2/10/2021 surface samples were collected at SP 1, 2, and 3. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On 2/26/2021 vertical delineation was conducted utilizing a hand auger to various depth of 1 to 9 feet. All samples collected were field titrated for chlorides and representative 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.

### **Remediation Plan:**

Apache Corporation proposes that the areas around SP 1 and SP 2 be hand excavated to a depth of 1 foot. Final 5 point bottom composite will be collected not to exceed 500 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Final 5 point wall samples will be collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once laboratory results are below table one standards for releases 51-100 feet to groundwater or to extent possible due to the battery infrastructure in close proximity. All excavated material (48 yards) will be hauled to an OCD approved disposal facility. The excavation will be backfilled with clean imported caliche to ground surface. The remediation will be completed within 90 days of OCD approval of the plan.

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

Submitted by;

*Bruce Baker*

**Environmental Technician**

*larry.baker@apachecorp.com*

**Cell# 432-631-6982**

**Off# 432-818-1000**

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

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|   |   |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release?   | <u>51-100</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

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

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

Printed Name: Larry Baker Title: Environmental Tech SR.  
Signature: *Larry Baker* Date: 3/6/2021  
email: larry.baker@apachecorp.com Telephone: 432-631-6982

**OCD Only**

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

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

## Remediation Plan

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

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech SR.  
 Signature: *Larry Baker* Date: 3/6/2021  
 email: larry.baker@apachecorp.com Telephone: \_\_\_\_\_

**OCD Only**

Received by: Chad Hensley Date: 04/30/2021

- Approved     Approved with Attached Conditions of Approval     Denied     Deferral Approved

Signature: *Chad Hensley* Date: 04/30/2021



NBTWEEN Battery  
H4  
SP 3  
SP 2  
H3

32 48.294 -104 06.310  
Temporary Well

Lovington Hwy

82

210

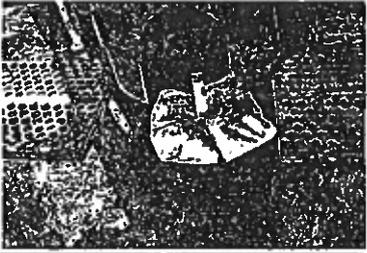
S Old Lee Rd

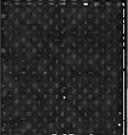
Arco Rd

© 2021 Google

Google Earth

2245 ft

|  |                        |   |   |
|--|------------------------|---|---|
| <b>Logger:</b>   | Jordan Woodfin         |  |  |
| <b>Driller:</b>  | Harrison & Cooper, Inc |   |   |
| <b>Drilling Method:</b>  | Air rotary             |   |   |
| <b>Start Date:</b>   | 4/15/2011              |   |   |
| <b>End Date:</b>   | 4/15/2011              | <b>Company:</b> Apache  |   |
| <b>Comments:</b>   |                        | <b>Project Name:</b> Empire Abo Unit C-49 SWD                                     |   |
| No sampling occurred on this well Well was set as a temporary well |                        | <b>Well ID:</b> MW-1 temp   |   |
| DRAFTED BY: L. Weirhelmer  |                        | <b>Project Consultant:</b> RECS   |   |
| TD = 55 ft   |                        | <b>Location:</b> UL/L sec 29 T17S R29E  |   |
| GW = none  |                        | <b>Lat:</b> N32°48.294'   |   |
|  |                        | <b>Long:</b> W104°06.310'   |   |
|  |                        | <b>County:</b> Eddy   |   |
|  |                        | <b>State:</b> NM  |   |

| Depth (feet) | chloride field tests | LAB | PID | Description      | Lithology                    | Well Construction          |  |
|--------------|----------------------|-----|-----|------------------|------------------------------|----------------------------|--|
| 5 ft         |                      |     |     | NO SAMPLES TAKEN |                              | annular space<br>left open |  |
| 10 ft        |                      |     |     |                  |                              |                            |  |
| 15 ft        |                      |     |     |                  |                              |                            |  |
| 20 ft        |                      |     |     |                  |                              |                            |  |
| 25 ft        |                      |     |     |                  |                              |                            |  |
| 30 ft        |                      |     |     |                  |                              |                            |  |
| 35 ft        |                      |     |     |                  |                              |                            |  |
| 40 ft        |                      |     |     |                  | RED BED CLAY MIXED WITH SAND |                            |  |
| 45 ft        |                      |     |     |                  | RED BED CLAY                 |                            |  |

| Depth (feet) | chloride field tests | LAB | PID | Description | Lithology | Well Construction |
|--------------|----------------------|-----|-----|-------------|-----------|-------------------|
|              |                      |     |     |             |           |                   |
| 50 ft        |                      |     |     |             |           |                   |
|              |                      |     |     |             |           |                   |
| 55 ft        |                      |     |     |             |           |                   |

Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241  
Phone 575.393.4411 Fax 575.393.0293

July 11<sup>th</sup>, 2011

Natalie Gladden  
Apache Corp.  
P.O. Box 1849  
Eunice, New Mexico 88231

**Re: Empire Abo Unit C-49 SWD**

Ms. Gladden,

On May 26<sup>th</sup>, 2011, RECS personnel drilled an observational well at the Empire Abo Unit C-49 SWD. On June 28<sup>th</sup>, I supervised RECS personnel checking for water accumulation within the borehole using a Solinst Water Level Meter. The meter indicated no water had accumulated within the borehole at the total depth of 99.12 ft.

Sincerely,



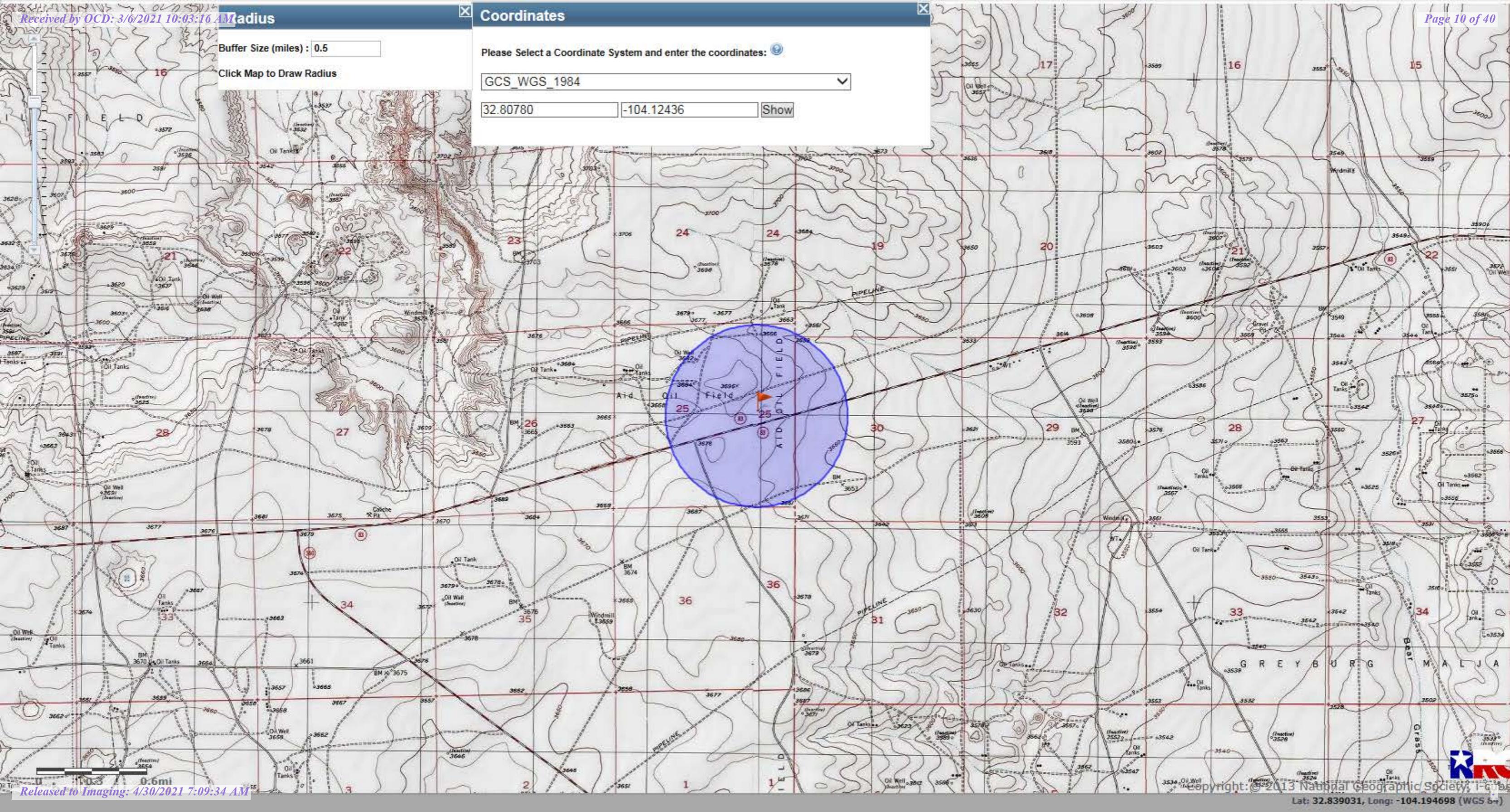
Bruce Baker  
Head Foreman  
Rice Environmental Consulting & Safety

### Coordinates

Buffer Size (miles) :

Please Select a Coordinate System and enter the coordinates:

Click Map to Draw Radius





H1

SP 1

SP 2

H4

SP 3

H3

© 2021 Google

65 ft

Google Earth

historical imagery from 1985.

Released to Imaging: 4/30/2021 7:09:34 AM

1985

| Sample Date                | Sample ID     | Depth | Field Chloride | Chloride | Benzene | Toulene | Ethybenzene | Total Xylenes | Total BTEX | GRO   | DRO    | EXT DRO | GPS Coordinates          |
|----------------------------|---------------|-------|----------------|----------|---------|---------|-------------|---------------|------------|-------|--------|---------|--------------------------|
| <b>Delineation Samples</b> |               |       |                |          |         |         |             |               |            |       |        |         |                          |
| 2/10/2021                  | SP1 @ Surface | S     | N/A            | 11,800   | <0.050  | 0.060   | 0.29        | 0.860         | 1.21       | 12.4  | 1720   | 352     | 32.807778<br>-104.124400 |
| 2/26/2021                  | SP1 @ 1'      | 1'    | 480            | 112      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | 515    | 289     |                          |
| 2/10/2021                  | SP2 @ Surface | S     | N/A            | 3,200    | 6.72    | 107     | 96.6        | 162           | 372        | 2,780 | 10,300 | 1,770   | 32.807630<br>-104.124399 |
| 2/26/2021                  | SP2 @ 1'      | 1'    | 880            | 928      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | 79.2   | 18.2    |                          |
| 2/26/2021                  | SP2 @ 2'      | 2'    | 800            |          |         |         |             |               |            |       |        |         |                          |
| 2/26/2021                  | SP2 @ 3'      | 3'    | 960            | 1840     | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | 143    | 31.7    |                          |
| 2/26/2021                  | SP2 @ 4'      | 4'    | 1840           |          |         |         |             |               |            |       |        |         |                          |
| 2/26/2021                  | SP2 @ 5'      | 5'    | 1040           | 1140     | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0  | <10.0   |                          |
| 2/26/2021                  | SP2 @ 6'      | 6'    | 960            |          |         |         |             |               |            |       |        |         |                          |
| 2/26/2021                  | SP2 @ 7'      | 7'    | 720            | 480      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0  | <10.0   |                          |
| 2/26/2021                  | SP2 @ 8'      | 8'    | 560            |          |         |         |             |               |            |       |        |         |                          |
| 2/26/2021                  | SP2 @ 9'      | 9'    | 480            | 208      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | 15.2   | <10.0   |                          |
| 2/10/2021                  | SP3 @ Surface | S     | N/A            | 6720     | <0.050  | 0.435   | 1.18        | 3.420         | 5.04       | 113   | 9.62   | 3.53    | 32.807345<br>-104.124392 |
| 2/26/2021                  | SP3 @ 1'      | 1'    | 400            |          |         |         |             |               |            |       |        |         |                          |
| 2/26/2021                  | SP3 @ 2'      | 2'    | 800            | 448      | <0.050  | 2.67    | 7.93        | 16.4          | 27         | 200   | 1,660  | 336     |                          |
| 2/26/2021                  | SP3 @ 3'      | 3'    | 480            |          |         |         |             |               |            |       |        |         |                          |
| 2/26/2021                  | SP3 @ 4'      | 4'    | 560            | 336      | <0.050  | 0.399   | 1.42        | 3.41          | 5.22       | 55.4  | 777    | 166     |                          |
| 2/26/2021                  | SP3 @ 5'      | 5'    | 480            |          |         |         |             |               |            |       |        |         |                          |
| 2/26/2021                  | SP3 @ 6'      | 6'    | 320            | 16       | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0  | <10.0   |                          |
| <b>Horizontal Samples</b>  |               |       |                |          |         |         |             |               |            |       |        |         |                          |
| 2/26/2021                  | HC1           | S     | 480            | 336      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | 103    | 105     | 32.807844<br>-104.124388 |
| 2/26/2021                  | H2            | S     | 480            | 288      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | 269    | 169     | 32.807634<br>-104.124337 |
| 2/26/2021                  | H3            | S     | 320            | 64       | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0  | <10.0   | 32.807321<br>-104.124386 |
| 2/26/2021                  | H4            | S     | 480            | 160      | <0.050  | <0.050  | <0.050      | <0.150        | <0.300     | <10.0 | <10.0  | <10.0   | 32.807600<br>-104.124426 |



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

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February 12, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NB TWEEN

Enclosed are the results of analyses for samples received by the laboratory on 02/10/21 14:16.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |             |                     |                |
|-------------------|-------------|---------------------|----------------|
| Received:         | 02/10/2021  | Sampling Date:      | 02/10/2021     |
| Reported:         | 02/12/2021  | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN TB | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY |                     |                |

**Sample ID: SP 1 @ SURFACE (H210360-01)**

| BTEX 8021B            |              | mg/kg           |            | Analyzed By: MS |      |            |               |        |           |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte               | Result       | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*              | <0.050       | 0.050           | 02/11/2021 | ND              | 2.31 | 116        | 2.00          | 1.13   |           |
| <b>Toluene*</b>       | <b>0.060</b> | 0.050           | 02/11/2021 | ND              | 2.34 | 117        | 2.00          | 0.0767 |           |
| <b>Ethylbenzene*</b>  | <b>0.285</b> | 0.050           | 02/11/2021 | ND              | 2.21 | 110        | 2.00          | 1.10   |           |
| <b>Total Xylenes*</b> | <b>0.860</b> | 0.150           | 02/11/2021 | ND              | 6.43 | 107        | 6.00          | 1.17   |           |
| <b>Total BTEX</b>     | <b>1.21</b>  | 0.300           | 02/11/2021 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

| Chloride, SM4500Cl-B |              | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result       | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>11800</b> | 16.0            | 02/11/2021 | ND              | 416 | 104        | 400           | 3.92 |           |

| TPH 8015M                  |             | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte                    | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| <b>GRO C6-C10*</b>         | <b>12.4</b> | 10.0            | 02/11/2021 | ND              | 212 | 106        | 200           | 2.29  |           |
| <b>DRO &gt;C10-C28*</b>    | <b>1720</b> | 10.0            | 02/11/2021 | ND              | 222 | 111        | 200           | 0.305 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>352</b>  | 10.0            | 02/11/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 139 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |             |                     |                |
|-------------------|-------------|---------------------|----------------|
| Received:         | 02/10/2021  | Sampling Date:      | 02/10/2021     |
| Reported:         | 02/12/2021  | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN TB | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY |                     |                |

**Sample ID: SP 2 @ SURFACE (H210360-02)**

| BTEX 8021B            |             | mg/kg           |            | Analyzed By: MS |      |            |               | S-04   |           |
|-----------------------|-------------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte               | Result      | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| <b>Benzene*</b>       | <b>6.72</b> | 1.00            | 02/11/2021 | ND              | 2.31 | 116        | 2.00          | 1.13   |           |
| <b>Toluene*</b>       | <b>107</b>  | 1.00            | 02/11/2021 | ND              | 2.34 | 117        | 2.00          | 0.0767 |           |
| <b>Ethylbenzene*</b>  | <b>96.6</b> | 1.00            | 02/11/2021 | ND              | 2.21 | 110        | 2.00          | 1.10   |           |
| <b>Total Xylenes*</b> | <b>162</b>  | 3.00            | 02/11/2021 | ND              | 6.43 | 107        | 6.00          | 1.17   |           |
| <b>Total BTEX</b>     | <b>372</b>  | 6.00            | 02/11/2021 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.3-129

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: GM |     |            |               | S-04 |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>3200</b> | 16.0            | 02/11/2021 | ND              | 416 | 104        | 400           | 3.92 |           |

| TPH 8015M                  |              | mg/kg           |            | Analyzed By: MS |     |            |               | S-06  |           |
|----------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte                    | Result       | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| <b>GRO C6-C10*</b>         | <b>2780</b>  | 50.0            | 02/11/2021 | ND              | 212 | 106        | 200           | 2.29  |           |
| <b>DRO &gt;C10-C28*</b>    | <b>10300</b> | 50.0            | 02/11/2021 | ND              | 222 | 111        | 200           | 0.305 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>1770</b>  | 50.0            | 02/11/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 222 % 44.3-144

Surrogate: 1-Chlorooctadecane 321 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |             |                     |                |
|-------------------|-------------|---------------------|----------------|
| Received:         | 02/10/2021  | Sampling Date:      | 02/10/2021     |
| Reported:         | 02/12/2021  | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN    | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN TB | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY |                     |                |

**Sample ID: SP 3 @ SURFACE (H210360-03)**

| BTEX 8021B            |              | mg/kg           |            | Analyzed By: MS |      |            |               | S-04   |           |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte               | Result       | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*              | <0.050       | 0.050           | 02/11/2021 | ND              | 2.31 | 116        | 2.00          | 1.13   |           |
| <b>Toluene*</b>       | <b>0.435</b> | 0.050           | 02/11/2021 | ND              | 2.34 | 117        | 2.00          | 0.0767 |           |
| <b>Ethylbenzene*</b>  | <b>1.18</b>  | 0.050           | 02/11/2021 | ND              | 2.21 | 110        | 2.00          | 1.10   |           |
| <b>Total Xylenes*</b> | <b>3.42</b>  | 0.150           | 02/11/2021 | ND              | 6.43 | 107        | 6.00          | 1.17   |           |
| <b>Total BTEX</b>     | <b>5.04</b>  | 0.300           | 02/11/2021 | ND              |      |            |               |        |           |

Surrogate: 4-Bromofluorobenzene (PID) 143 % 73.3-129

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: GM |     |            |               | S-04 |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>6720</b> | 16.0            | 02/11/2021 | ND              | 416 | 104        | 400           | 3.92 |           |

| TPH 8015M                  |             | mg/kg           |            | Analyzed By: MS |     |            |               | S-06  |           |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte                    | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| <b>GRO C6-C10*</b>         | <b>113</b>  | 50.0            | 02/11/2021 | ND              | 212 | 106        | 200           | 2.29  |           |
| <b>DRO &gt;C10-C28*</b>    | <b>9620</b> | 50.0            | 02/11/2021 | ND              | 222 | 111        | 200           | 0.305 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>3530</b> | 50.0            | 02/11/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 127 % 44.3-144

Surrogate: 1-Chlorooctadecane 358 % 42.2-156

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

Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: *Apache Corporation*  
 Project Manager: *Bruce Baker*  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: *NB TWEEN TB*  
 Project Location: *NB TWEEN TB*  
 Sampler Name: *Jeff Guen*  
 P.O. #: \_\_\_\_\_ Company: \_\_\_\_\_  
 Attn: \_\_\_\_\_ Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

| Lab I.D.       | Sample I.D.            | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |          |        |         |            | DATE           | TIME        | CL-      | BTEX     | EXT. TPH |
|----------------|------------------------|-------------------|--------------|-------------|------------|------|----------|--------|---------|------------|----------------|-------------|----------|----------|----------|
|                |                        |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL      | SLUDGE | OTHER : | ACID/BASE: |                |             |          |          |          |
| <i>H410360</i> | <i>1 SP1 @ Surface</i> | <i>G</i>          | <i>6</i>     |             |            |      | <i>✓</i> |        |         |            | <i>2/10/21</i> | <i>0508</i> | <i>✓</i> | <i>✓</i> | <i>✓</i> |
|                | <i>2 SP2 @ Surface</i> | <i>G</i>          | <i>6</i>     |             |            |      | <i>✓</i> |        |         |            | <i>2/10/21</i> | <i>0910</i> | <i>✓</i> | <i>✓</i> | <i>✓</i> |
|                | <i>3 SP3 @ Surface</i> | <i>G</i>          | <i>6</i>     |             |            |      | <i>✓</i> |        |         |            | <i>2/10/21</i> | <i>0912</i> | <i>✓</i> | <i>✓</i> | <i>✓</i> |

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Relinquished By: *Jeff Guen* Date: *2/10/21* Received By: *Jamara Alabazone*  
 Time: \_\_\_\_\_ Date: *1/16* Received By: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_

Delivered By: (Circle One) Observed Temp. °C *4.5* Sample Condition:  Intact  Cool  Yes  No  No  
 Corrected Temp. °C \_\_\_\_\_  
 Turnaround Time: \_\_\_\_\_ Standard  Rush   
 Bacteria (only) Sample Condition:  Cool  Intact  Yes  No  No  No  No  
 Corrected Temp. °C \_\_\_\_\_

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



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

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March 02, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NB TWEEN

Enclosed are the results of analyses for samples received by the laboratory on 02/26/21 14:13.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

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:         | 02/26/2021       | Sampling Date:      | 02/26/2021     |
| Reported:         | 03/02/2021       | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN BATTERY | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY      |                     |                |

**Sample ID: SP 1 @ 1' (H210468-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.05 | 103        | 2.00          | 4.84 |           |
| Toluene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.03 | 102        | 2.00          | 4.71 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/26/2021 | ND              | 1.98 | 98.9       | 2.00          | 4.84 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/26/2021 | ND              | 5.80 | 96.6       | 6.00          | 4.48 |           |
| Total BTEX     | <0.300 | 0.300           | 02/26/2021 | ND              |      |            |               |      |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 03/01/2021 | ND              | 400 | 100        | 400           | 7.69 |           |

| 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            | 02/27/2021 | ND              | 212 | 106        | 200           | 0.582 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>515</b> | 10.0            | 02/27/2021 | ND              | 220 | 110        | 200           | 1.27  |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>289</b> | 10.0            | 02/27/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 126 % 44.3-144

Surrogate: 1-Chlorooctadecane 130 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 02/26/2021       | Sampling Date:      | 02/26/2021     |
| Reported:         | 03/02/2021       | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN BATTERY | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY      |                     |                |

**Sample ID: SP 2 @ 1' (H210468-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.05 | 103        | 2.00          | 4.84 |           |
| Toluene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.03 | 102        | 2.00          | 4.71 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/26/2021 | ND              | 1.98 | 98.9       | 2.00          | 4.84 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/26/2021 | ND              | 5.80 | 96.6       | 6.00          | 4.48 |           |
| Total BTEX     | <0.300 | 0.300           | 02/26/2021 | ND              |      |            |               |      |           |

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

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>928</b> | 16.0            | 03/01/2021 | ND              | 400 | 100        | 400           | 7.69 |           |

| 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            | 02/27/2021 | ND              | 212 | 106        | 200           | 0.582 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>79.2</b> | 10.0            | 02/27/2021 | ND              | 220 | 110        | 200           | 1.27  |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>18.2</b> | 10.0            | 02/27/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 122 % 44.3-144

Surrogate: 1-Chlorooctadecane 134 % 42.2-156

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

**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 02/26/2021       | Sampling Date:      | 02/26/2021     |
| Reported:         | 03/02/2021       | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN BATTERY | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY      |                     |                |

**Sample ID: SP 2 @ 3' (H210468-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.05 | 103        | 2.00          | 4.84 |           |  |
| Toluene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.03 | 102        | 2.00          | 4.71 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 02/26/2021 | ND              | 1.98 | 98.9       | 2.00          | 4.84 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 02/26/2021 | ND              | 5.80 | 96.6       | 6.00          | 4.48 |           |  |
| Total BTEX     | <0.300 | 0.300           | 02/26/2021 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| <b>Chloride</b>      | <b>1840</b> | 16.0            | 03/01/2021 | ND              | 400 | 100        | 400           | 7.69 |           |  |

| 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            | 02/27/2021 | ND              | 212 | 106        | 200           | 0.582 |           |  |
| <b>DRO &gt;C10-C28*</b>    | <b>143</b>  | 10.0            | 02/27/2021 | ND              | 220 | 110        | 200           | 1.27  |           |  |
| <b>EXT DRO &gt;C28-C36</b> | <b>31.7</b> | 10.0            | 02/27/2021 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 02/26/2021       | Sampling Date:      | 02/26/2021     |
| Reported:         | 03/02/2021       | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN BATTERY | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY      |                     |                |

**Sample ID: SP 2 @ 5' (H210468-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.05 | 103        | 2.00          | 4.84 |           |
| Toluene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.03 | 102        | 2.00          | 4.71 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/26/2021 | ND              | 1.98 | 98.9       | 2.00          | 4.84 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/26/2021 | ND              | 5.80 | 96.6       | 6.00          | 4.48 |           |
| Total BTEX     | <0.300 | 0.300           | 02/26/2021 | ND              |      |            |               |      |           |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1140   | 16.0            | 03/01/2021 | ND              | 400 | 100        | 400           | 7.69 |           |

| 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            | 02/27/2021 | ND              | 212 | 106        | 200           | 0.582 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/27/2021 | ND              | 220 | 110        | 200           | 1.27  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/27/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 02/26/2021       | Sampling Date:      | 02/26/2021     |
| Reported:         | 03/02/2021       | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN BATTERY | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY      |                     |                |

**Sample ID: SP 2 @ 9' (H210468-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.05 | 103        | 2.00          | 4.84 |           |
| Toluene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.03 | 102        | 2.00          | 4.71 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/26/2021 | ND              | 1.98 | 98.9       | 2.00          | 4.84 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/26/2021 | ND              | 5.80 | 96.6       | 6.00          | 4.48 |           |
| Total BTEX     | <0.300 | 0.300           | 02/26/2021 | ND              |      |            |               |      |           |

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

| Chloride, SM4500CI-B |            | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>208</b> | 16.0            | 03/01/2021 | 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            | 03/01/2021 | ND              | 207 | 103        | 200           | 2.59 |           |
| <b>DRO &gt;C10-C28*</b> | <b>15.2</b> | 10.0            | 03/01/2021 | ND              | 212 | 106        | 200           | 1.04 |           |
| EXT DRO >C28-C36        | <10.0       | 10.0            | 03/01/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 77.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 02/26/2021       | Sampling Date:      | 02/26/2021     |
| Reported:         | 03/02/2021       | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN BATTERY | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY      |                     |                |

**Sample ID: SP 3 @ 2' (H210468-06)**

| BTEX 8021B            |             | mg/kg           |            | Analyzed By: MS |      |            |               | S-04 |           |
|-----------------------|-------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte               | Result      | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*              | <0.050      | 0.050           | 02/26/2021 | ND              | 2.05 | 103        | 2.00          | 4.84 |           |
| <b>Toluene*</b>       | <b>2.67</b> | 0.050           | 02/26/2021 | ND              | 2.03 | 102        | 2.00          | 4.71 |           |
| <b>Ethylbenzene*</b>  | <b>7.93</b> | 0.050           | 02/26/2021 | ND              | 1.98 | 98.9       | 2.00          | 4.84 |           |
| <b>Total Xylenes*</b> | <b>16.4</b> | 0.150           | 02/26/2021 | ND              | 5.80 | 96.6       | 6.00          | 4.48 |           |
| <b>Total BTEX</b>     | <b>27.0</b> | 0.300           | 02/26/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 198 % 73.3-129

| Chloride, SM4500CI-B |            | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>448</b> | 16.0            | 03/01/2021 | 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 |
| <b>GRO C6-C10*</b>         | <b>200</b>  | 10.0            | 03/01/2021 | ND              | 207 | 103        | 200           | 2.59 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>1660</b> | 10.0            | 03/01/2021 | ND              | 212 | 106        | 200           | 1.04 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>336</b>  | 10.0            | 03/01/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 02/26/2021       | Sampling Date:      | 02/26/2021     |
| Reported:         | 03/02/2021       | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN BATTERY | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY      |                     |                |

**Sample ID: SP 3 @ 4' (H210468-07)**

| BTEX 8021B            |              | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte               | Result       | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*              | <0.050       | 0.050           | 02/26/2021 | ND              | 2.05 | 103        | 2.00          | 4.84 |           |
| <b>Toluene*</b>       | <b>0.399</b> | 0.050           | 02/26/2021 | ND              | 2.03 | 102        | 2.00          | 4.71 |           |
| <b>Ethylbenzene*</b>  | <b>1.42</b>  | 0.050           | 02/26/2021 | ND              | 1.98 | 98.9       | 2.00          | 4.84 |           |
| <b>Total Xylenes*</b> | <b>3.41</b>  | 0.150           | 02/26/2021 | ND              | 5.80 | 96.6       | 6.00          | 4.48 |           |
| <b>Total BTEX</b>     | <b>5.22</b>  | 0.300           | 02/26/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 126 % 73.3-129

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>336</b> | 16.0            | 03/01/2021 | 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 |
| <b>GRO C6-C10*</b>         | <b>55.4</b> | 10.0            | 03/01/2021 | ND              | 207 | 103        | 200           | 2.59 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>777</b>  | 10.0            | 03/01/2021 | ND              | 212 | 106        | 200           | 1.04 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>166</b>  | 10.0            | 03/01/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 76.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.9 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 02/26/2021       | Sampling Date:      | 02/26/2021     |
| Reported:         | 03/02/2021       | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN BATTERY | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY      |                     |                |

**Sample ID: SP 3 @ 6' (H210468-08)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.05 | 103        | 2.00          | 4.84 |           |
| Toluene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.03 | 102        | 2.00          | 4.71 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/26/2021 | ND              | 1.98 | 98.9       | 2.00          | 4.84 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/26/2021 | ND              | 5.80 | 96.6       | 6.00          | 4.48 |           |
| Total BTEX     | <0.300 | 0.300           | 02/26/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 03/01/2021 | 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            | 03/01/2021 | ND              | 207 | 103        | 200           | 2.59 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/01/2021 | ND              | 212 | 106        | 200           | 1.04 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/01/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 71.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 68.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 02/26/2021       | Sampling Date:      | 02/26/2021     |
| Reported:         | 03/02/2021       | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN BATTERY | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY      |                     |                |

**Sample ID: SP 2 @ 7' (H210468-09)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.05 | 103        | 2.00          | 4.84 |           |
| Toluene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.03 | 102        | 2.00          | 4.71 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/26/2021 | ND              | 1.98 | 98.9       | 2.00          | 4.84 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/26/2021 | ND              | 5.80 | 96.6       | 6.00          | 4.48 |           |
| Total BTEX     | <0.300 | 0.300           | 02/26/2021 | ND              |      |            |               |      |           |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 480    | 16.0            | 03/01/2021 | 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            | 03/01/2021 | ND              | 207 | 103        | 200           | 2.59 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/01/2021 | ND              | 212 | 106        | 200           | 1.04 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/01/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 62.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 60.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: *Spack Corporation* P.O. #: \_\_\_\_\_  
 Project Manager: *Bruce Batty* Company: \_\_\_\_\_  
 Address: \_\_\_\_\_ Attn: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: *N 8 TWEEN Battery* City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Project Location: *N 8 TWEEN Battery* Phone #: \_\_\_\_\_  
 Sampler Name: *Jeff Brown* Fax #: \_\_\_\_\_  
 FOR LAB USE ONLY

| Lab I.D.       | Sample I.D.              | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |          |     |        |         |            | DATE           | TIME | CL       | BTEX     | EXT. TPH |
|----------------|--------------------------|-------------------|--------------|-------------|------------|----------|-----|--------|---------|------------|----------------|------|----------|----------|----------|
|                |                          |                   |              | GROUNDWATER | WASTEWATER | SOIL     | OIL | SLUDGE | OTHER : | ACID/BASE: |                |      |          |          |          |
| <i>HA10468</i> | <i>1 SP1@1'</i>          |                   | <i>6</i>     |             |            | <i>✓</i> |     |        |         |            | <i>2/26/21</i> |      | <i>✓</i> | <i>✓</i> | <i>✓</i> |
|                | <i>2 SP2@1'</i>          |                   | <i>6</i>     |             |            | <i>✓</i> |     |        |         |            |                |      | <i>✓</i> | <i>✓</i> | <i>✓</i> |
|                | <i>3 SP2@3'</i>          |                   | <i>6</i>     |             |            | <i>✓</i> |     |        |         |            |                |      | <i>✓</i> | <i>✓</i> | <i>✓</i> |
|                | <i>4 SP2@4.5'</i>        |                   | <i>6</i>     |             |            | <i>✓</i> |     |        |         |            |                |      | <i>✓</i> | <i>✓</i> | <i>✓</i> |
|                | <i>5 SP2@9'</i>          |                   | <i>6</i>     |             |            | <i>✓</i> |     |        |         |            |                |      | <i>✓</i> | <i>✓</i> | <i>✓</i> |
|                | <i>6 SP3@2'</i>          |                   | <i>6</i>     |             |            | <i>✓</i> |     |        |         |            |                |      | <i>✓</i> | <i>✓</i> | <i>✓</i> |
|                | <i>7 SP3@4'</i>          |                   | <i>6</i>     |             |            | <i>✓</i> |     |        |         |            |                |      | <i>✓</i> | <i>✓</i> | <i>✓</i> |
|                | <i>8 SP3@6'</i>          |                   | <i>6</i>     |             |            | <i>✓</i> |     |        |         |            |                |      | <i>✓</i> | <i>✓</i> | <i>✓</i> |
|                | <i>9 SP2@7' Replaced</i> |                   | <i>6</i>     |             |            | <i>✓</i> |     |        |         |            | <i>2/26/21</i> |      | <i>✓</i> | <i>✓</i> | <i>✓</i> |

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Relinquished By: *Jeff Brown* Date: *2/26/21* Received By: *Bruce Batty* Date: *2/26/21*

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_

Delivered By: (Circle One) Observed Temp. °C: *6.0* Sample Condition:  Intact  Cool  Yes  No  No

Sampler - UPS - Bus - Other: Corrected Temp. °C: \_\_\_\_\_

Checked By: *JB* (Initials)

Turnaround Time: \_\_\_\_\_ Standard  Rush  Add'l Phone #: \_\_\_\_\_

Thermometer ID #113 Correction Factor None Bacteria (only) Sample Condition:  Cool  Intact  Yes  No  No  No  No

Corrected Temp. °C: \_\_\_\_\_

REMARKS: \_\_\_\_\_

Verbal Result:  Yes  No  Add'l Phone #: \_\_\_\_\_

All Results are emailed. Please provide Email address: \_\_\_\_\_

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



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

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March 02, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NB TWEEN

Enclosed are the results of analyses for samples received by the laboratory on 02/26/21 14:16.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 02/26/2021       | Sampling Date:      | 02/26/2021     |
| Reported:         | 03/02/2021       | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN BATTERY | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY      |                     |                |

**Sample ID: HC 1 (H210469-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.05 | 103        | 2.00          | 4.84 | QR-03     |  |
| Toluene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.03 | 102        | 2.00          | 4.71 | QR-03     |  |
| Ethylbenzene*  | <0.050 | 0.050           | 02/26/2021 | ND              | 1.98 | 98.9       | 2.00          | 4.84 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 02/26/2021 | ND              | 5.80 | 96.6       | 6.00          | 4.48 |           |  |
| Total BTEX     | <0.300 | 0.300           | 02/26/2021 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <b>336</b> | 16.0            | 03/01/2021 | ND              | 400 | 100        | 400           | 7.69 |           |  |

| TPH 8015M                  |            | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|----------------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte                    | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10*                | <10.0      | 10.0            | 03/01/2021 | ND              | 207 | 103        | 200           | 2.59 |           |  |
| <b>DRO &gt;C10-C28*</b>    | <b>103</b> | 10.0            | 03/01/2021 | ND              | 212 | 106        | 200           | 1.04 |           |  |
| <b>EXT DRO &gt;C28-C36</b> | <b>105</b> | 10.0            | 03/01/2021 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 71.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.8 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 02/26/2021       | Sampling Date:      | 02/26/2021     |
| Reported:         | 03/02/2021       | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN BATTERY | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY      |                     |                |

**Sample ID: HC 2 (H210469-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.05 | 103        | 2.00          | 4.84 |           |
| Toluene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.03 | 102        | 2.00          | 4.71 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/26/2021 | ND              | 1.98 | 98.9       | 2.00          | 4.84 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/26/2021 | ND              | 5.80 | 96.6       | 6.00          | 4.48 |           |
| Total BTEX     | <0.300 | 0.300           | 02/26/2021 | ND              |      |            |               |      |           |

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

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>288</b> | 16.0            | 03/01/2021 | ND              | 400 | 100        | 400           | 7.69 |           |

| TPH 8015M                  |            | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|----------------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                | <10.0      | 10.0            | 03/01/2021 | ND              | 207 | 103        | 200           | 2.59 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>269</b> | 10.0            | 03/01/2021 | ND              | 212 | 106        | 200           | 1.04 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>169</b> | 10.0            | 03/01/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 74.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 02/26/2021       | Sampling Date:      | 02/26/2021     |
| Reported:         | 03/02/2021       | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN BATTERY | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY      |                     |                |

**Sample ID: HC 3 (H210469-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.05 | 103        | 2.00          | 4.84 |           |
| Toluene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.03 | 102        | 2.00          | 4.71 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/26/2021 | ND              | 1.98 | 98.9       | 2.00          | 4.84 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/26/2021 | ND              | 5.80 | 96.6       | 6.00          | 4.48 |           |
| Total BTEX     | <0.300 | 0.300           | 02/26/2021 | ND              |      |            |               |      |           |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 03/01/2021 | ND              | 400 | 100        | 400           | 7.69 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/01/2021 | ND              | 207 | 103        | 200           | 2.59 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/01/2021 | ND              | 212 | 106        | 200           | 1.04 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/01/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 68.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 66.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 02/26/2021       | Sampling Date:      | 02/26/2021     |
| Reported:         | 03/02/2021       | Sampling Type:      | Soil           |
| Project Name:     | NB TWEEN         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NB TWEEN BATTERY | Sample Received By: | Tamara Oldaker |
| Project Location: | EDDY COUNTY      |                     |                |

**Sample ID: HC 4 (H210469-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.05 | 103        | 2.00          | 4.84 |           |
| Toluene*       | <0.050 | 0.050           | 02/26/2021 | ND              | 2.03 | 102        | 2.00          | 4.71 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/26/2021 | ND              | 1.98 | 98.9       | 2.00          | 4.84 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/26/2021 | ND              | 5.80 | 96.6       | 6.00          | 4.48 |           |
| Total BTEX     | <0.300 | 0.300           | 02/26/2021 | ND              |      |            |               |      |           |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 160    | 16.0            | 03/01/2021 | ND              | 400 | 100        | 400           | 7.69 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/01/2021 | ND              | 207 | 103        | 200           | 2.59 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/01/2021 | ND              | 212 | 106        | 200           | 1.04 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/01/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 68.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 66.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|  |  |                     |  |
|--|--|---------------------|--|
| Company Name: <i>Apache Corporation</i><br>Project Manager: <i>Bruce Baker</i>     |  | P.O. #:<br>Company: |  |
| Address:<br>City: State: Zip:  |  | Attn: Address:      |  |
| Phone #: Fax #:<br>Project #: Project Owner:                                       |  | City: State: Zip:   |  |
| Project Name: <i>NB TWEEN BATTERY</i><br>Project Location: <i>NB TWEEN BATTERY</i> |  | Phone #: Fax #:     |  |
| Sampler Name: <i>Jeff Brown</i>  |  | FOR LAB USE ONLY    |  |

| Lab I.D.       | Sample I.D.  | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |          |     |        |                | DATE | TIME            | REMARKS |
|----------------|--------------|-------------------|--------------|-------------|------------|----------|-----|--------|----------------|------|-----------------|---------|
|                |              |                   |              | GROUNDWATER | WASTEWATER | SOIL     | OIL | SLUDGE | OTHER :        |      |                 |         |
| <i>H310469</i> |              |                   |              |             |            |          |     |        |                |      |                 |         |
|                | <i>1 HC2</i> | <i>C</i>          |              |             |            | <i>✓</i> |     |        | <i>2/26/21</i> |      | <i>CL</i>       |         |
|                | <i>2 HC2</i> | <i>C</i>          |              |             |            | <i>✓</i> |     |        |                |      | <i>BTEX</i>     |         |
|                | <i>3 HC3</i> | <i>C</i>          |              |             |            | <i>✓</i> |     |        |                |      | <i>EXT. TPH</i> |         |
|                | <i>4 HC4</i> | <i>C</i>          |              |             |            | <i>✓</i> |     |        | <i>2/26/21</i> |      |                 |         |

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|   |  |
|---|--|
| Relinquished By: <i>Jeff Brown</i><br>Date: <i>2/26/21</i><br>Time: | Received By: <i>Bruce Baker</i><br>Date: <i>2/26/21</i><br>Time: |
|---|--|

|  |  |  |                                     |   |   |
|--|--|--|-------------------------------------|---|---|
| Delivered By: (Circle One)<br>Sampler - UPS - Bus - Other: | Observed Temp. °C: <i>6.0</i><br>Corrected Temp. °C: | Sample Condition<br>Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | CHECKED BY: (Initials)<br><i>JB</i> | Turnaround Time:<br>Thermometer ID #113<br>Correction Factor None | Standard <input checked="" type="checkbox"/> <b>Rush</b><br>Bacteria (only) <input type="checkbox"/><br>Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Sample Condition <input type="checkbox"/> Observed Temp. °C<br>Corrected Temp. °C |
|--|--|--|-------------------------------------|---|---|

REMARKS:

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

# Apache N B Tween Battery

$$SP1-1' \quad 24 \times 20 = 480$$

$$SP2-1' \quad 44 \times 20 = 880$$

$$2' \quad 40 \times 20 = 800$$

$$3' \quad 48 \times 20 = 960$$

$$4' \quad 92 \times 20 = 1840$$

$$5' \quad 52 \times 20 = 1040$$

$$6' \quad 48 \times 20 = 960$$

$$7' \quad 36 \times 20 = 720$$

$$8' \quad 28 \times 20 = 560$$

$$9' \quad 24 \times 20 = 480$$

$$SP3-1' \quad 20 \times 20 = 400$$

$$2' \quad 40 \times 20 = 800$$

$$3' \quad 24 \times 20 = 480$$

$$4' \quad 28 \times 20 = 560$$

$$5' \quad 24 \times 20 = 480$$

$$6' \quad 16 \times 20 = 320$$

$$Hc1 \quad 24 \times 20 = 480$$

$$Hc2 \quad 24 \times 20 = 480$$

$$Hc3 \quad 16 \times 20 = 320$$

$$Hc4 \quad 24 \times 20 = 480$$

**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 19902

**CONDITIONS OF APPROVAL**

|   |                         |                   |                         |                       |
|---|-------------------------|-------------------|-------------------------|-----------------------|
| Operator:<br>#1000 APACHE CORPORATION<br>Midland, TX79705 | 303 Veterans Airpark Ln | OGRID:<br>873     | Action Number:<br>19902 | Action Type:<br>C-141 |
| OCD Reviewer<br>chensley                                  |                         | Condition<br>None |                         |                       |