



303 Veterans Airpark Lane Midland, TX 79705

Deferment Request

January 25, 2023

Re: SB Battery
Case # nAB1719936703

On 6/28/2017 a release occurred due to a hole developed in the fire tube on a heater treater. The entire release was contained inside the secondary containment. The release (GPS: 32.7790, -104.2570) is located east of Artesia, New Mexico in unit letter E section 2 township 18S range 27E. A groundwater survey was conducted utilizing data from the NMOSE. The closest well is located in bottom of the draw at an elevation of 3472 feet and the elevation of the release is 3579 feet. The difference in elevation suggest that the depth to groundwater under the release to be 157 feet below ground surface. The release is in an area of high karst.

On 7/5/2017 two verticals were attempted inside the battery utilizing a hand auger and refusal was met at 3 inches due to the hardness of soil. The surface samples were taken to a commercial laboratory for analysis of chloride, TPH, and BTEX. The release area was excavated utilizing hand shovels to the refusal depth of 3 inches. All excavated soil was hauled to an OCD approved facility. On 6/17/2019 a vertical was conducted inside the release area utilizing a backhoe. Samples were collected in one foot intervals starting at 3 inches and advanced to a depth of 4 feet. All samples were taking to a commercial laboratory for analysis of chloride, TPH, and BTEX.

The release was contained inside the secondary containment and has been fully delineated with depth to table one standards for releases less than 50 feet to groundwater. The release area has been excavated to the extent possible considering the hardness of soil and the close proximity to processing equipment. Apache Corporation respectfully request that the event be deferred until system abandonment.

On 10/25/2022 the OCD rejected the deferment request. On 11/21/2022 a horizontal 5-point composite sample was collected not to exceed 200 square feet. The sample was submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. The sample was below table one standards for the most stringent levels. The release as been delineated to the most stringent table one standards. Due to the hardness of soil and the proximity to processing equipment. Apache Corporation respectfully request that the event be deferred until the equipment is removed or system abandonment.

Enclosed: Corrected C-141, Groundwater data, Maps, Sample Data, Laboratory Results, and Photos

Submitted by;

Larry Baker

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-250-8384

Off# 432-818-1654

From: OCDOnline@state.nm.us
To: [Baker, Larry](#)
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 9714
Date: Tuesday, October 25, 2022 4:07:40 PM

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

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1719936703, for the following reasons:

- **The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.**
- **Horizontal and vertical delineation submitted was incomplete and did not meet the requirements of [19.15.29.11](#) NMAC.**
- **2RP-4295 is to be referred to as incident NAB1719936703 in all future communications.**
- **Submit remediation plan, deferral request, and/or closure plan to the OCD by 01/27/2023.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 9714.

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

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

Thank you,
Ashley Maxwell
Projects Environmental Specialist - A
505-635-5000
Ashley.Maxwell@emnrd.nm.gov

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

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NM OIL CONSERVATION

ARTESIA DISTRICT

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

State of New Mexico
Energy Minerals and Natural Resources

JUL 14 2017

Form C-141
Revised August 8, 2011

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

Submit Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB170906703 OPERATOR ☒ Initial Report ☐ Final Report

| | |
|--|------------------------------|
| Name of Company: Apache Corporation | Contact: Bruce Baker |
| Address: 2350 W Marland Blvd Hobbs, NM 88240 | Telephone No. (432) 631-6982 |
| Facility Name SB State Battery | Facility Type: Battery |

| | | |
|---------------------|---------------|----------------------|
| Surface Owner State | Mineral Owner | API No. 30-015-32218 |
|---------------------|---------------|----------------------|

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| E | 2 | 18S | 27E | 1650 | FNL | 330 | FWL | Eddy |

Latitude N32.7790 Longitude W104.2570

NATURE OF RELEASE

| | | |
|--|--|---|
| Type of Release: Oil and Produce Water | Volume of Release 10 barrels of oil 10 barrels of water | Volume Recovered 8 barrels of oil 7 barrels of water |
| Source of Release: Heater Treater | Date and Hour of Occurrence 6/27/2017 | Date and Hour of Discovery 6/27/2017 |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Mike Bratcher and Crystal Weaver via email | |
| By Whom? Bruce Baker | Date and Hour 6/28/2017 at 3:18 pm | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |
| If a Watercourse was Impacted, Describe Fully.* | | |
| Describe Cause of Problem and Remedial Action Taken.* A hole developed in fire tube on heater treater resulting in the loss of fluid. The release was isolated and fire tube repaired. | | |
| Describe Area Affected and Cleanup Action Taken.* The entire release was contained to the berm facility. A vacuum truck was dispatched to pick-up standing fluid. The release was mapped and surface samples collected. | | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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. | | |
| Signature: <i>Bruce Baker</i> | | OIL CONSERVATION DIVISION |
| Printed Name: Bruce Baker | | Approved by Environmental Specialist: <i>Crystal Weaver</i> |
| Title: Environmental Technician | | Approval Date: 7/17/17 Expiration Date: N/A |
| E-mail Address: larry.baker@apachecorp.com | | Conditions of Approval: <i>See attached</i> |
| Date: 6/14/2017 Phone: (432) 631-6982 | | Attached <input type="checkbox"/> |

* Attach Additional Sheets If Necessary

Please refer to the New Mexico Oil
Conservation Division Website for
updated form(s) at:

<http://www.emnrd.state.nm.us/>
[OCD/ forms.html](http://www.emnrd.state.nm.us/OCD/forms.html)

Thank you

2RP-4295

7/14/17

| | |
|----------------|---------------|
| Incident ID | NAB1719936703 |
| 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>157</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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input 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.

| | |
|----------------|---------------|
| Incident ID | NAB1719936703 |
| District RP | |
| Facility ID | |
| Application ID | |

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

Printed Name: Larry Baker Title: Environmental Tech SR.
Signature: Larry Baker Date: 8/14/2020
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: Jocelyn Harimon Date: 01/30/2023

| | |
|----------------|---------------|
| Incident ID | NAB1719936703 |
| District RP | |
| Facility ID | |
| Application ID | |

Remediation Plan

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

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

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

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

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

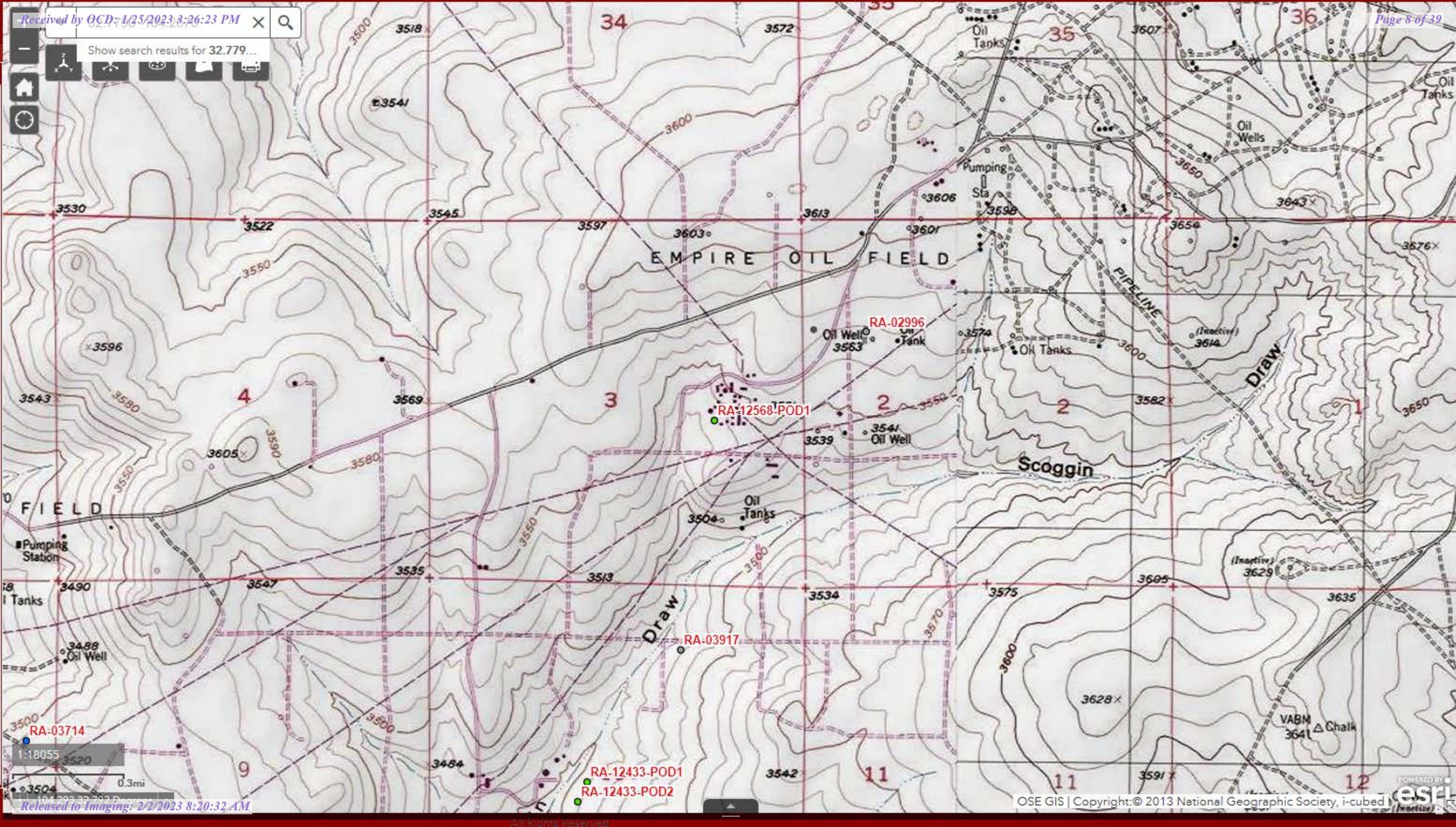
Printed Name: Larry Baker Title: Environmental Tech Sr. Staff
Signature: Larry Baker Date: 1/25/2023
email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

Received by: Jocelyn Harimon Date: 01/30/2023

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

Signature: Ashley Maxwell Date: 2/02/2023




Show search results for 32.779...



New Mexico Office of the State Engineer

Point of Diversion Summary

| | | (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) | | | | | | (NAD83 UTM in meters) | |
|-------------------|------------|--|-----|----|-----|------------------|-----|-----------------------|--|
| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng | X | Y |
| | RA 03917 | 4 | 1 | 2 | 10 | 18S | 27E | 569019 | 3625660*  |
| <hr/> | | | | | | | | | |
| Driller License: | 111 | Driller Company: | | | | BURKE, EDWARD B. | | | |
| Driller Name: | | | | | | | | | |
| Drill Start Date: | 07/31/1958 | Drill Finish Date: | | | | 07/31/1958 | | Plug Date: | |
| Log File Date: | 08/06/1958 | PCW Rcv Date: | | | | | | Source: | Artesian |
| Pump Type: | | Pipe Discharge Size: | | | | | | Estimated Yield: | |
| Casing Size: | | Depth Well: | | | | 130 feet | | Depth Water: | 50 feet |

*UTM location was derived from PLSS - see Help

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

8/13/20 1:51 PM

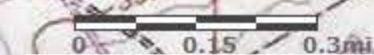
POINT OF DIVERSION SUMMARY

Radius

Click Map to Draw Radius

▼

Show



SB State Battery
2RP-4295

**Remediation
Closure**

Apache
Corporation
Lea County, New Mexico

Figure 1: Sample Point Locations



Table 1: Field and Lab Data

| Date | Sample ID | Laboratory Results | | | Field Data |
|----------|-----------|--------------------|----------------|-----------------|-----------------|
| | | BTEX (mg/kg) | TPH (mg/kg) | CL's (mg/kg) | CL's (mg/kg) |
| 7/5/2017 | SP-1 | 0.399 | 178 | 2400 | 530 |
| | SP-2 | <0.300 | 75.4 | 5680 | 1680 |



SB Battery

VP1

SB/TDF/NMBP State

76 ft

© 2018 Google



3/17/2020



VP1

SB Battery





H1 @ 5'

| Sample Date | Sample ID | Depth | Chloride | Benzene | Toulene | Ethybenzene | Total Xylenes | Total BTEX | GRO | DRO | EXT DRO | GPS Coordinates |
|-------------|---------------|---------|----------|---------|---------|-------------|---------------|------------|-------|-------|---------|--------------------------|
| 6/17/2019 | VP1 @ Surface | S | 64 | <0.025 | 0.028 | 0.059 | 0.193 | 0.28 | <50.0 | 3680 | 1520 | 32.778956, -104.257072 |
| 6/17/2019 | VP1 @ 1' | 1' | 80 | <0.025 | <0.025 | <0.025 | <0.075 | <0.150 | <10.0 | 53.3 | 33.6 | 32.778956, -104.257072 |
| 6/17/2019 | VP1 @ 2' | 2' | 112 | <0.025 | <0.025 | <0.025 | <0.075 | <0.150 | <10.0 | <10.0 | <10.0 | 32.778956, -104.257072 |
| 6/17/2019 | VP1 @ 3' | 3' | 400 | <0.025 | <0.025 | <0.025 | <0.075 | <0.150 | <10.0 | <10.0 | <10.0 | 32.778956, -104.257072 |
| 6/17/2019 | VP1 @ 4' | 4' | 288 | <0.025 | <0.025 | <0.025 | <0.075 | <0.150 | <10.0 | <10.0 | <10.0 | 32.778956, -104.257072 |
| 11/21/2022 | H1 @ 5' | Surface | 48 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 32.7787672, -104.2570862 |



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

July 10, 2017

JENNIFER VAN CUREN

ARCADIS U.S., INC.

2999 OAK ROAD, SUITE 300

WALNUT CREEK, CA 94597

RE: SB STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/05/17 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ARCADIS U.S., INC.
 JENNIFER VAN CUREN
 2999 OAK ROAD, SUITE 300
 WALNUT CREEK CA, 94597
 Fax To: NOT GIVEN

Received: 07/05/2017
 Reported: 07/10/2017
 Project Name: SB STATE BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 07/05/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP1 SURFACE CALICHE (H701743-01)

| BTX 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 | 07/06/2017 | ND | 2.06 | 103 | 2.00 | 0.235 | |
| Toluene* | <0.050 | 0.050 | 07/06/2017 | ND | 1.93 | 96.3 | 2.00 | 0.000365 | |
| Ethylbenzene* | 0.087 | 0.050 | 07/06/2017 | ND | 2.00 | 99.9 | 2.00 | 0.339 | |
| Total Xylenes* | 0.311 | 0.150 | 07/06/2017 | ND | 5.99 | 99.8 | 6.00 | 0.507 | |
| Total BTX | 0.399 | 0.300 | 07/06/2017 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 72-148

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2400 | 16.0 | 07/06/2017 | ND | 432 | 108 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 12.4 | 10.0 | 07/07/2017 | ND | 187 | 93.7 | 200 | 0.667 | |
| DRO >C10-C28 | 722 | 10.0 | 07/07/2017 | ND | 205 | 102 | 200 | 0.118 | |
| EXT DRO >C28-C36 | 178 | 10.0 | 07/07/2017 | ND | | | | | |

Surrogate: 1-Chlorooctane 99.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 128 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ARCADIS U.S., INC.
 JENNIFER VAN CUREN
 2999 OAK ROAD, SUITE 300
 WALNUT CREEK CA, 94597
 Fax To: NOT GIVEN

Received: 07/05/2017
 Reported: 07/10/2017
 Project Name: SB STATE BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 07/05/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP2 SURFACE CALICHE (H701743-02)

| 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 | 07/06/2017 | ND | 2.06 | 103 | 2.00 | 0.235 | | |
| Toluene* | <0.050 | 0.050 | 07/06/2017 | ND | 1.93 | 96.3 | 2.00 | 0.000365 | | |
| Ethylbenzene* | <0.050 | 0.050 | 07/06/2017 | ND | 2.00 | 99.9 | 2.00 | 0.339 | | |
| Total Xylenes* | <0.150 | 0.150 | 07/06/2017 | ND | 5.99 | 99.8 | 6.00 | 0.507 | | |
| Total BTEX | <0.300 | 0.300 | 07/06/2017 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 5680 | 16.0 | 07/06/2017 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 07/07/2017 | ND | 187 | 93.7 | 200 | 0.667 | |
| DRO >C10-C28 | 251 | 10.0 | 07/07/2017 | ND | 205 | 102 | 200 | 0.118 | |
| EXT DRO >C28-C36 | 75.4 | 10.0 | 07/07/2017 | ND | | | | | |

Surrogate: 1-Chlorooctane 83.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

June 20, 2019

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SB STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/17/19 15:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/17/2019
 Reported: 06/20/2019
 Project Name: SB STATE BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/17/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VP 1 @ SURFACE (H902081-01)

| BTEX 8260B | | mg/kg | Analyzed By: ms | | | | | | |
|-----------------------|--------------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.025 | 0.025 | 06/19/2019 | ND | 1.89 | 94.6 | 2.00 | 2.28 | |
| Toluene* | 0.028 | 0.025 | 06/19/2019 | ND | 2.05 | 103 | 2.00 | 1.49 | |
| Ethylbenzene* | 0.059 | 0.025 | 06/19/2019 | ND | 2.03 | 101 | 2.00 | 1.23 | |
| Total Xylenes* | 0.193 | 0.075 | 06/19/2019 | ND | 6.71 | 112 | 6.00 | 0.446 | |
| Total BTEX | 0.280 | 0.150 | 06/19/2019 | ND | | | | | |

Surrogate: Dibromofluoromethane 97.5 % 90.4-111

Surrogate: Toluene-d8 100 % 85.3-114

Surrogate: 4-Bromofluorobenzene 96.8 % 80.1-121

| Chloride, SM4500Cl-B | | mg/kg | Analyzed By: AC | | | | | | |
|----------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 06/20/2019 | ND | 400 | 100 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | Analyzed By: MS | | | | | | | S-06 |
|----------------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|--------|-----------|------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <50.0 | 50.0 | 06/19/2019 | ND | 196 | 98.0 | 200 | 0.0730 | | |
| DRO >C10-C28* | 3680 | 50.0 | 06/19/2019 | ND | 185 | 92.5 | 200 | 0.880 | | |
| EXT DRO >C28-C36 | 1520 | 50.0 | 06/19/2019 | ND | | | | | | |

Surrogate: 1-Chlorooctane 98.9 % 41-142

Surrogate: 1-Chlorooctadecane 297 % 37.6-147

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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
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 06/17/2019
 Reported: 06/20/2019
 Project Name: SB STATE BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/17/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VP 1 @ 1' (H902081-02)

| BTX 8260B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.025 | 0.025 | 06/19/2019 | ND | 1.89 | 94.6 | 2.00 | 2.28 | |
| Toluene* | <0.025 | 0.025 | 06/19/2019 | ND | 2.05 | 103 | 2.00 | 1.49 | |
| Ethylbenzene* | <0.025 | 0.025 | 06/19/2019 | ND | 2.03 | 101 | 2.00 | 1.23 | |
| Total Xylenes* | <0.075 | 0.075 | 06/19/2019 | ND | 6.71 | 112 | 6.00 | 0.446 | |
| Total BTX | <0.150 | 0.150 | 06/19/2019 | ND | | | | | |

Surrogate: Dibromofluoromethane 95.7 % 90.4-111

Surrogate: Toluene-d8 102 % 85.3-114

Surrogate: 4-Bromofluorobenzene 93.2 % 80.1-121

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 06/20/2019 | ND | 400 | 100 | 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 | 06/19/2019 | ND | 196 | 98.0 | 200 | 0.0730 | |
| DRO >C10-C28* | 53.3 | 10.0 | 06/19/2019 | ND | 185 | 92.5 | 200 | 0.880 | |
| EXT DRO >C28-C36 | 33.6 | 10.0 | 06/19/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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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
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 06/17/2019
 Reported: 06/20/2019
 Project Name: SB STATE BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/17/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VP 1 @ 2' (H902081-03)

| BTX 8260B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.025 | 0.025 | 06/19/2019 | ND | 1.89 | 94.6 | 2.00 | 2.28 | |
| Toluene* | <0.025 | 0.025 | 06/19/2019 | ND | 2.05 | 103 | 2.00 | 1.49 | |
| Ethylbenzene* | <0.025 | 0.025 | 06/19/2019 | ND | 2.03 | 101 | 2.00 | 1.23 | |
| Total Xylenes* | <0.075 | 0.075 | 06/19/2019 | ND | 6.71 | 112 | 6.00 | 0.446 | |
| Total BTX | <0.150 | 0.150 | 06/19/2019 | ND | | | | | |

Surrogate: Dibromofluoromethane 97.8 % 90.4-111

Surrogate: Toluene-d8 99.9 % 85.3-114

Surrogate: 4-Bromofluorobenzene 92.6 % 80.1-121

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 06/20/2019 | ND | 400 | 100 | 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 | 06/19/2019 | ND | 196 | 98.0 | 200 | 0.0730 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/19/2019 | ND | 185 | 92.5 | 200 | 0.880 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/19/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 98.6 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/17/2019
 Reported: 06/20/2019
 Project Name: SB STATE BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/17/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VP 1 @ 3' (H902081-04)

| BTX 8260B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.025 | 0.025 | 06/19/2019 | ND | 1.89 | 94.6 | 2.00 | 2.28 | |
| Toluene* | <0.025 | 0.025 | 06/19/2019 | ND | 2.05 | 103 | 2.00 | 1.49 | |
| Ethylbenzene* | <0.025 | 0.025 | 06/19/2019 | ND | 2.03 | 101 | 2.00 | 1.23 | |
| Total Xylenes* | <0.075 | 0.075 | 06/19/2019 | ND | 6.71 | 112 | 6.00 | 0.446 | |
| Total BTX | <0.150 | 0.150 | 06/19/2019 | ND | | | | | |

Surrogate: Dibromofluoromethane 98.2 % 90.4-111

Surrogate: Toluene-d8 101 % 85.3-114

Surrogate: 4-Bromofluorobenzene 91.1 % 80.1-121

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 400 | 16.0 | 06/20/2019 | ND | 400 | 100 | 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 | 06/19/2019 | ND | 217 | 109 | 200 | 5.92 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/19/2019 | ND | 193 | 96.7 | 200 | 6.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/19/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 94.9 % 37.6-147

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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
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 06/17/2019
 Reported: 06/20/2019
 Project Name: SB STATE BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/17/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VP 1 @ 4' (H902081-05)

| BTEx 8260B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.025 | 0.025 | 06/19/2019 | ND | 1.89 | 94.6 | 2.00 | 2.28 | |
| Toluene* | <0.025 | 0.025 | 06/19/2019 | ND | 2.05 | 103 | 2.00 | 1.49 | |
| Ethylbenzene* | <0.025 | 0.025 | 06/19/2019 | ND | 2.03 | 101 | 2.00 | 1.23 | |
| Total Xylenes* | <0.075 | 0.075 | 06/19/2019 | ND | 6.71 | 112 | 6.00 | 0.446 | |
| Total BTEx | <0.150 | 0.150 | 06/19/2019 | ND | | | | | |

Surrogate: Dibromofluoromethane 96.0 % 90.4-111

Surrogate: Toluene-d8 102 % 85.3-114

Surrogate: 4-Bromofluorobenzene 93.6 % 80.1-121

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 288 | 16.0 | 06/20/2019 | ND | 400 | 100 | 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 | 06/19/2019 | ND | 217 | 109 | 200 | 5.92 | |
| DRO >C10-C28* | <10.0 | 10.0 | 06/19/2019 | ND | 193 | 96.7 | 200 | 6.69 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/19/2019 | ND | | | | | |

Surrogate: 1-Chlorooctane 97.5 % 41-142

Surrogate: 1-Chlorooctadecane 92.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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

Released to Imaging: 2/2/2023 8:20:32 AM

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

November 30, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SB STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/21/22 16:49.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

| | |
|------------------|---|
| Method SM 9223-B | Total Coliform and E. coli (Colilert MMO-MUG) |
| Method EPA 524.2 | Regulated VOCs and Total Trihalomethanes (TTHM) |
| Method EPA 552.2 | Total Haloacetic Acids (HAA-5) |

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS NM, 88240Project: SB STATE BATTERY
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432Reported:
30-Nov-22 10:03

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|--------------|---------------|
|-----------|---------------|--------|--------------|---------------|

| | | | | |
|----------|------------|------|-----------------|-----------------|
| H 1 @ 5' | H225488-01 | Soil | 21-Nov-22 15:38 | 21-Nov-22 16:49 |
|----------|------------|------|-----------------|-----------------|

11/29/22 - Client changed the sample ID (see COC). This is the revised report and will replace the one sent on 11/28/22.

11/30/22 - Client changed the sample ID (see COC). This is the 2nd revision of the report and will replace the one sent on 11/29/22.

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "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
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: SB STATE BATTERY
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
30-Nov-22 10:03

H 1 @ 5'
H225488-01 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 48.0 | | 16.0 | mg/kg | 4 | 2112226 | AC | 22-Nov-22 | 4500-Cl-B | |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | |
|----------------|--------|-------|-------|----|---------|----|-----------|-------|--|
| Benzene* | <0.050 | 0.050 | mg/kg | 50 | 2112203 | JH | 23-Nov-22 | 8021B | |
| Toluene* | <0.050 | 0.050 | mg/kg | 50 | 2112203 | JH | 23-Nov-22 | 8021B | |
| Ethylbenzene* | <0.050 | 0.050 | mg/kg | 50 | 2112203 | JH | 23-Nov-22 | 8021B | |
| Total Xylenes* | <0.150 | 0.150 | mg/kg | 50 | 2112203 | JH | 23-Nov-22 | 8021B | |
| Total BTEX | <0.300 | 0.300 | mg/kg | 50 | 2112203 | JH | 23-Nov-22 | 8021B | |

| | | | | | | |
|---------------------------------------|--------|----------|---------|----|-----------|-------|
| Surrogate: 4-Bromofluorobenzene (PID) | 85.6 % | 69.9-140 | 2112203 | JH | 23-Nov-22 | 8021B |
|---------------------------------------|--------|----------|---------|----|-----------|-------|

Petroleum Hydrocarbons by GC FID

| | | | | | | | | |
|------------------|-------|------|-------|---|---------|----|-----------|-------|
| GRO C6-C10* | <10.0 | 10.0 | mg/kg | 1 | 2112211 | MS | 22-Nov-22 | 8015B |
| DRO >C10-C28* | <10.0 | 10.0 | mg/kg | 1 | 2112211 | MS | 22-Nov-22 | 8015B |
| EXT DRO >C28-C36 | <10.0 | 10.0 | mg/kg | 1 | 2112211 | MS | 22-Nov-22 | 8015B |

| | | | | | | |
|---------------------------|--------|----------|---------|----|-----------|-------|
| Surrogate: 1-Chlorooctane | 85.4 % | 45.3-161 | 2112211 | MS | 22-Nov-22 | 8015B |
|---------------------------|--------|----------|---------|----|-----------|-------|

| | | | | | | |
|-------------------------------|--------|----------|---------|----|-----------|-------|
| Surrogate: 1-Chlorooctadecane | 94.6 % | 46.3-178 | 2112211 | MS | 22-Nov-22 | 8015B |
|-------------------------------|--------|----------|---------|----|-----------|-------|

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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
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: SB STATE BATTERY
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
30-Nov-22 10:03

Inorganic Compounds - Quality Control**Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|--------|--------------------|-------|----------------|--------------------------------|----------------|------|--------------|-------|
| Batch 2112226 - 1:4 DI Water | | | | | | | | | |
| Blank (2112226-BLK1) | | | | | Prepared & Analyzed: 22-Nov-22 | | | | |
| Chloride | ND | 16.0 | mg/kg | | | | | | |
| LCS (2112226-BS1) | | | | | Prepared & Analyzed: 22-Nov-22 | | | | |
| Chloride | 432 | 16.0 | mg/kg | 400 | 108 | 80-120 | | | |
| LCS Dup (2112226-BSD1) | | | | | Prepared & Analyzed: 22-Nov-22 | | | | |
| Chloride | 432 | 16.0 | mg/kg | 400 | 108 | 80-120 | 0.00 | 20 | |

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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
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: SB STATE BATTERY
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
30-Nov-22 10:03

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

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

Batch 2112203 - Volatiles**Blank (2112203-BLK1)**

Prepared: 22-Nov-22 Analyzed: 23-Nov-22

| | | | | | | | | | | |
|---------------------------------------|----|-------|-------|--------|--|------|----------|--|--|--|
| Benzene | ND | 0.050 | mg/kg | | | | | | | |
| Toluene | ND | 0.050 | mg/kg | | | | | | | |
| Ethylbenzene | ND | 0.050 | mg/kg | | | | | | | |
| Total Xylenes | ND | 0.150 | mg/kg | | | | | | | |
| Total BTEX | ND | 0.300 | mg/kg | | | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | ND | | mg/kg | 0.0500 | | 86.1 | 69.9-140 | | | |

LCS (2112203-BS1)

Prepared: 22-Nov-22 Analyzed: 23-Nov-22

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|--|--|--|
| Benzene | 2.01 | 0.050 | mg/kg | 2.00 | | 100 | 83.4-122 | | | |
| Toluene | 2.14 | 0.050 | mg/kg | 2.00 | | 107 | 84.2-126 | | | |
| Ethylbenzene | 2.09 | 0.050 | mg/kg | 2.00 | | 104 | 84.2-121 | | | |
| m,p-Xylene | 4.32 | 0.100 | mg/kg | 4.00 | | 108 | 89.9-126 | | | |
| o-Xylene | 2.00 | 0.050 | mg/kg | 2.00 | | 100 | 84.3-123 | | | |
| Total Xylenes | 6.32 | 0.150 | mg/kg | 6.00 | | 105 | 89.1-124 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0413 | | mg/kg | 0.0500 | | 82.6 | 69.9-140 | | | |

LCS Dup (2112203-BSD1)

Prepared: 22-Nov-22 Analyzed: 23-Nov-22

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|--------|------|--|
| Benzene | 1.98 | 0.050 | mg/kg | 2.00 | | 98.8 | 83.4-122 | 1.64 | 12.6 | |
| Toluene | 2.11 | 0.050 | mg/kg | 2.00 | | 105 | 84.2-126 | 1.76 | 13.3 | |
| Ethylbenzene | 2.07 | 0.050 | mg/kg | 2.00 | | 103 | 84.2-121 | 0.962 | 13.9 | |
| m,p-Xylene | 4.31 | 0.100 | mg/kg | 4.00 | | 108 | 89.9-126 | 0.210 | 13.6 | |
| o-Xylene | 2.02 | 0.050 | mg/kg | 2.00 | | 101 | 84.3-123 | 0.661 | 14.1 | |
| Total Xylenes | 6.33 | 0.150 | mg/kg | 6.00 | | 105 | 89.1-124 | 0.0668 | 13.4 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0425 | | mg/kg | 0.0500 | | 85.0 | 69.9-140 | | | |

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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
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: SB STATE BATTERY
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
30-Nov-22 10:03

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

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

Batch 2112211 - General Prep - Organics**Blank (2112211-BLK1)**

Prepared & Analyzed: 22-Nov-22

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|-----|----------|--|--|--|
| GRO C6-C10 | ND | 10.0 | mg/kg | | | | | | | |
| DRO >C10-C28 | ND | 10.0 | mg/kg | | | | | | | |
| EXT DRO >C28-C36 | ND | 10.0 | mg/kg | | | | | | | |
| Surrogate: 1-Chlorooctane | 55.3 | | mg/kg | 50.0 | | 111 | 45.3-161 | | | |
| Surrogate: 1-Chlorooctadecane | 61.6 | | mg/kg | 50.0 | | 123 | 46.3-178 | | | |

LCS (2112211-BS1)

Prepared & Analyzed: 22-Nov-22

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|-----|----------|--|--|--|
| GRO C6-C10 | 208 | 10.0 | mg/kg | 200 | | 104 | 76.8-124 | | | |
| DRO >C10-C28 | 211 | 10.0 | mg/kg | 200 | | 106 | 74.9-127 | | | |
| Total TPH C6-C28 | 420 | 10.0 | mg/kg | 400 | | 105 | 77.5-124 | | | |
| Surrogate: 1-Chlorooctane | 58.8 | | mg/kg | 50.0 | | 118 | 45.3-161 | | | |
| Surrogate: 1-Chlorooctadecane | 67.6 | | mg/kg | 50.0 | | 135 | 46.3-178 | | | |

LCS Dup (2112211-BS1)

Prepared & Analyzed: 22-Nov-22

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|-----|----------|------|------|--|
| GRO C6-C10 | 213 | 10.0 | mg/kg | 200 | | 106 | 76.8-124 | 2.23 | 17.2 | |
| DRO >C10-C28 | 224 | 10.0 | mg/kg | 200 | | 112 | 74.9-127 | 5.64 | 18.6 | |
| Total TPH C6-C28 | 437 | 10.0 | mg/kg | 400 | | 109 | 77.5-124 | 3.97 | 17.6 | |
| Surrogate: 1-Chlorooctane | 60.0 | | mg/kg | 50.0 | | 120 | 45.3-161 | | | |
| Surrogate: 1-Chlorooctadecane | 61.9 | | mg/kg | 50.0 | | 124 | 46.3-178 | | | |

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|----------------------------------|--|-------------------|--|--------------|--|-------------|--|------------|--|------|--|-----|--|------------------|--|--------|--|------------|--|------------|--|--------|--|------|--|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: <u>Apache</u> | | P.O. #: | | BILL TO | | | | | | | | | | | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: <u>Bruce Beto</u> | | Company: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: | | Attn: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City: <u>Hobbs</u> | | State: <u>NM</u> | | Zip: <u>88240</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: | | Fax #: | | Address: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project #: | | City: | | State: | | Zip: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: | | Phone #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: <u>SB State Battery</u> | | Fax #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: <u>Sosé Alvarez</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. <u>H225488</u> | | Sample I.D. <u>H1G5-11/30/22</u> | | (G)RAB OR (C)OMP. | | # CONTAINERS | | GROUNDWATER | | WASTEWATER | | SOIL | | OIL | | SLUDGE | | OTHER: | | ACID/BASE: | | ICE / COOL | | OTHER: | | DATE | | TIME | | | | | | | | | | | | | |
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SB Battery (Front side of containment)



SB Battery (Wide view of containment)



SB Battery (Backside of the containment area)

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 179713

CONDITIONS

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|---|---|
| Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705 | OGRID: 873 |
| | Action Number: 179713 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| amaxwell | Deferral request approved. Impacted area must be addressed when equipment is removed or during P&A activities, which ever comes first. Laboratory analysis required for closure. | 2/2/2023 |