

Closure Report

NOT APPROVED

Site Description

| | |
|--------------------|------------------------------|
| Site Name: | State AR #003 Battery |
| Company: | Oxy Permian Ltd. |
| Legal Description: | U/L L, Section 2, T20S, R37E |
| County: | Lea County, NM |
| GPS Coordinates: | N 32.59991° W 103.22853° |

Release Data

| | |
|--------------------|--|
| Date of Release: | 11/02/2016 |
| Type of Release: | Oil and produced water |
| Source of Release: | Lightning caused a fire which resulted in a burn off |
| Volume of Release: | 162 bbls oil, unknown amount of produced water |
| Volume Recovered: | 0 bbls |

Remediation Specifications

| | | |
|-------------------------|---|---|
| Remediation Parameters: | Remove impacted material from within the lined battery. Surface scrape the rest of the leak area. Collect two samples within the battery for vertical delineation. Backfill the site with clean soil. | |
| Remediation Activities: | 04/14/2017 to 04/18/2017 | |
| Plan Sent to OCD: | 01/28/2017 | Email from Cliff Brunson to Kristen Lynch |
| OCD Approval of Plan: | 03/07/2017 | Email from Olivia Yu to Cliff Brunson |
| Plan Sent to BLM: | n/a | n/a |
| BLM Approval of Plan: | n/a | n/a |

Supporting Documentation

| | |
|------------------|--|
| Initial C-141 | Signed 11/15/2016 |
| Final C-141 | Upon completion |
| Site Diagram | December 2016 |
| Groundwater Plot | <50' |
| TOPO Maps | December 2016 |
| Lab Summary | 12/23/2016 and 04/18/2017 |
| Lab Analysis | 12/23/2016 and 04/18/2017 |
| Correspondence | Request and approval of remediation plan via email |

Request for Closure

Based on the completion of the remediation plan as agreed upon, Oxy Permian Ltd. requests closure approval from NMOCD.

Casey Summers, NM Environmental Advisor, Oxy Permian Ltd.

05/04/2016

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | | | |
|-----------------|--------------------------------|---------------|----------------|
| Name of Company | Oxy Permian Ltd. | Contact | Casey Summers |
| Address | PO Box 4294; Houston, TX 77210 | Telephone No. | (575) 513-8289 |
| Facility Name | State AR #003 Battery | Facility Type | Battery |
| Surface Owner | State | Mineral Owner | |
| | | API No. | 30-025-37155 |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|----------------|
| L | 2 | 20S | 37E | | | | | Lea County, NM |

Latitude N 32.60027° Longitude W 103.22839°

NATURE OF RELEASE

| | | | | | |
|-----------------------------|---|-------------------|---|----------------------|--------|
| Type of Release | Oil and produced water | Volume of Release | 162 bbls oil, unknown amt of produced water | Volume Recovered | 0 bbls |
| Source of Release | A lightning strike caused the east oil production tank and 2 other tanks to catch fire, burn, and melt that resulted in a hydrocarbon and produced water burn off | | Date and Hour of Occurrence | 11/02/2016 | |
| Was Immediate Notice Given? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | | If YES, To Whom? | Kristen Lynch- NMOCD | |
| By Whom? | Kathy Purvis | | Date and Hour | 11/03/2016 @ 4:30 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.*

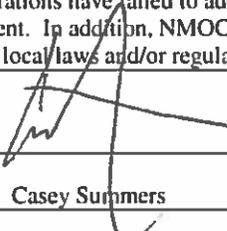
Describe Cause of Problem and Remedial Action Taken.*

A lightning strike started a fire on the east oil production tank and two other tanks causing them to burn and melt. As a result of the fire, the hydrocarbon and produced water content burned off. Therefore, no fluids were recovered.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 50' x 100' both on and off location. Remediation will be completed in accordance with a remediation plan approved by NMOCD.

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: |  | | | <u>OIL CONSERVATION DIVISION</u> | |
| Printed Name: | Casey Summers | | Approved by Environmental Specialist: | | |
| Title: | NM Environmental Advisor | | Approval Date: | Expiration Date: | |
| E-mail Address: | Casey.Summers@oxy.com | | Conditions of Approval: | | Attached <input type="checkbox"/> |
| Date: | 11-15-16 | | Phone: | (575) 513-8289 | |

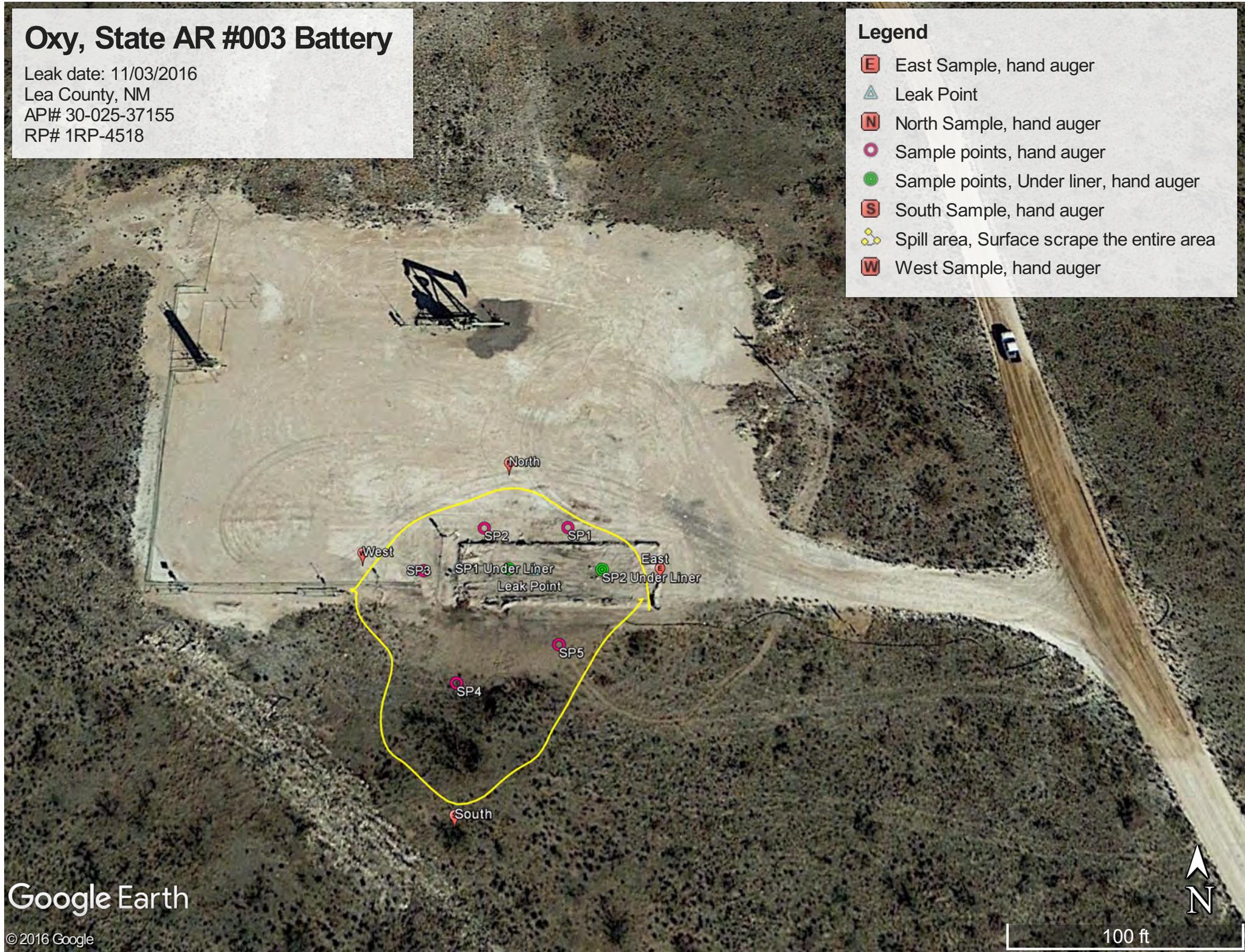
* Attach Additional Sheets If Necessary

Oxy, State AR #003 Battery

Leak date: 11/03/2016
Lea County, NM
API# 30-025-37155
RP# 1RP-4518

Legend

- E** East Sample, hand auger
- ▲** Leak Point
- N** North Sample, hand auger
- Sample points, hand auger
- Sample points, Under liner, hand auger
- S** South Sample, hand auger
- ⬢** Spill area, Surface scrape the entire area
- W** West Sample, hand auger



Google Earth

© 2016 Google

100 ft



Oxy, State AR #003 Battery

Sample Points, Hand Auger

SP1, N 32.60002 W-103.22821

SP2, N 32.60002 W-103.22834

SP3, N 32.59996 W-103.22843

SP4, N 32.59981 W-103.22837

SP5, N 32.59986 W-103.22822

NORTH SAMPLE, N 32.60010 W-103.22830

SOUTH SAMPLE, N 32.59963 W-103.22836

EAST SAMPLE, N 32.59995 W-103.22806

WEST SAMPLE, N 32.59997 W-103.22852

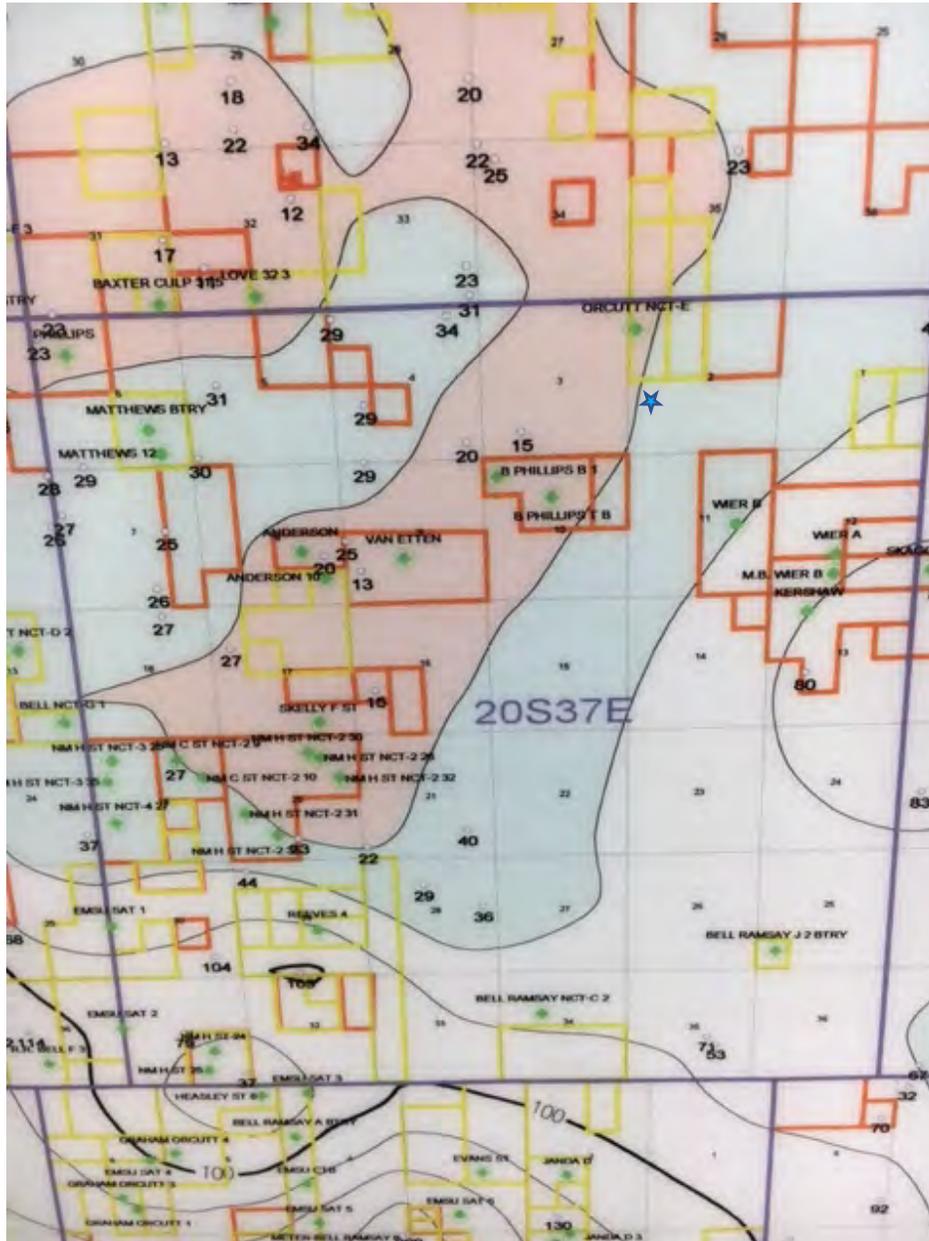
SP1 @ Surface, Under liner

N 32.59996 W-103.22829

SP2 @ Surface, Under liner

W 32.59996 W-103.22815

Oxy, State AR #003 Battery
U/L L, Section 2, T20S, R37E
Groundwater: <50'





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number | Code | POD Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | DepthWell | DepthWater | Water Column |
|------------------------------|------|---------------|--------|------|------|-----|-----|-----|-----|--------|----------|--------------------------|-----------|----------------|--------------|
| L_10166 POD1 | | L | LE | 4 | 4 | 3 | 34 | 19S | 37E | 665098 | 3609459* | <input type="checkbox"/> | 1572 | 35 | |
| L_10166 POD2 | | L | LE | 4 | 4 | 3 | 34 | 19S | 37E | 665098 | 3609459* | <input type="checkbox"/> | 1572 | 35 | |
| L_10166 POD3 | | L | LE | 4 | 4 | 3 | 34 | 19S | 37E | 665098 | 3609459* | <input type="checkbox"/> | 1572 | 35 | |
| L_12457 POD1 | | L | LE | 4 | 4 | 3 | 34 | 19S | 37E | 665007 | 3609413 | <input type="checkbox"/> | 1608 | 74 | 60 14 |
| Average Depth to Water: | | | | | | | | | | | | | | 60 feet | |
| Minimum Depth: | | | | | | | | | | | | | | 60 feet | |
| Maximum Depth: | | | | | | | | | | | | | | 60 feet | |

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 666224

Northing (Y): 3608362

Radius: 1700

*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.

5/4/17 9:19 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Public Land Survey System (PLSS)

Q64: Q16: **NW** Q4: **SW** Sec: **02** Tws: **20S** Rng: **37E**

State Plane Coordinate System - NAD27

X: ft Y: ft Zone:

State Plane Coordinate System - NAD83

X: ft Y: ft Zone:

Degrees/Minutes/Seconds

Longitude (X): Degrees: ° Minutes: ' Seconds: "

Latitude (Y): Degrees: ° Minutes: ' Seconds: "

UTM - NAD27

Easting (X): mtrs Northing (Y): mtrs Zone:

SUBMIT

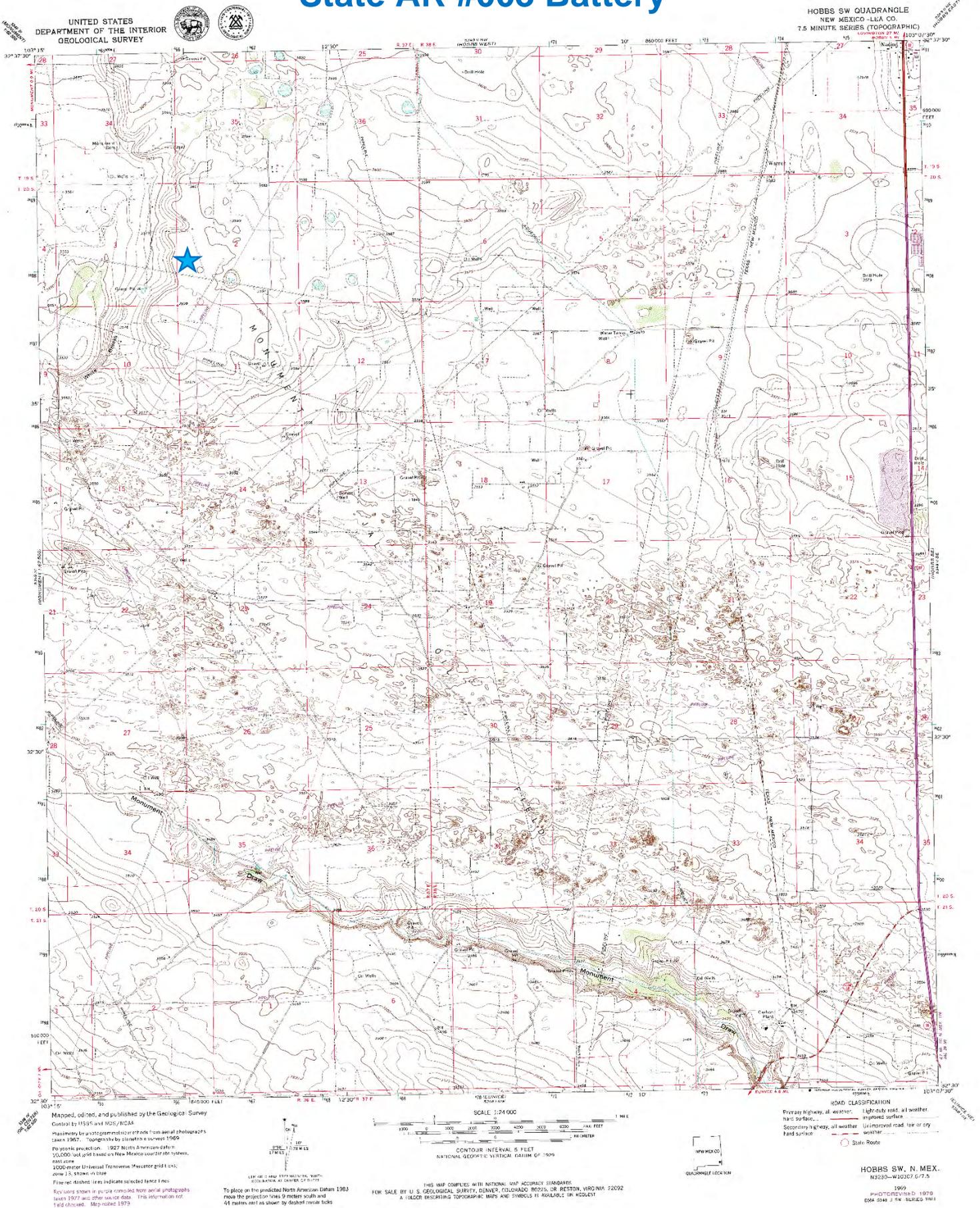
All Conversion Results are displayed as **NAD 1983 UTM Zone 13**

Easting (X): **666224.0** mtrs Northing (Y): **3608362.0** mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~

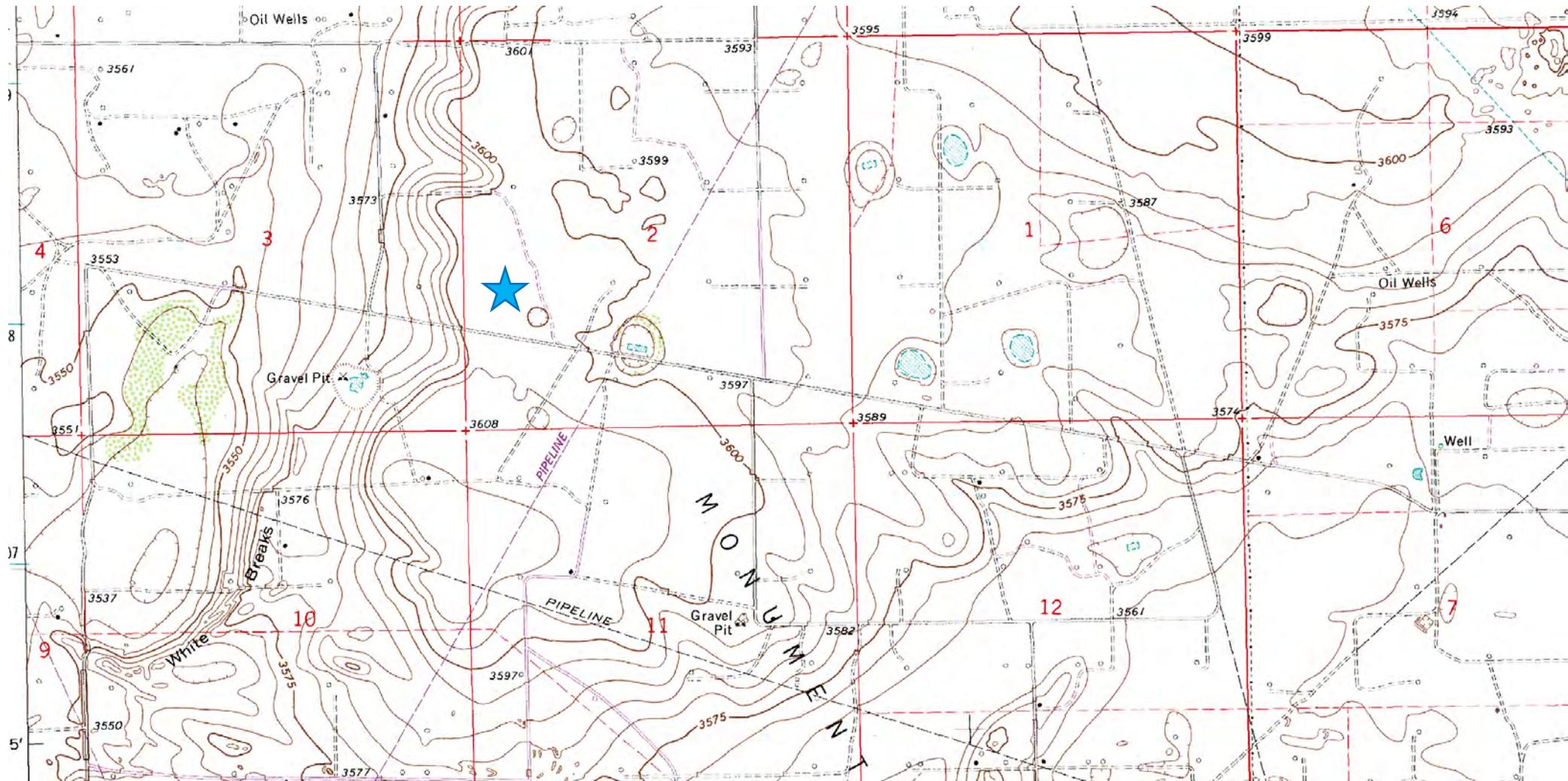
Oxy

State AR #003 Battery



Oxy

State AR #003 Battery



Laboratory Analytical Results Summary
State AR #003 Battery

| | | Sample | SP1 @ 1' |
|---------------|------------|--------|----------|
| Analyte | Method | Date | 12/23/16 |
| | | | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 |
| Toluene | BTEX 8021B | | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 |
| Chloride | SM4500CI-B | | 64 |
| GRO | TPH 8015M | | <10.0 |
| DRO | TPH 8015M | | <10.0 |

| | | Sample | NORTH SAMPLE |
|---------------|------------|--------|--------------|
| Analyte | Method | Date | 12/23/16 |
| | | | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 |
| Toluene | BTEX 8021B | | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 |
| Chloride | SM4500CI-B | | <16.0 |
| GRO | TPH 8015M | | <10.0 |
| DRO | TPH 8015M | | <10.0 |

| | | Sample | SP2 @ 1' |
|---------------|------------|--------|----------|
| Analyte | Method | Date | 12/23/16 |
| | | | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 |
| Toluene | BTEX 8021B | | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 |
| Chloride | SM4500CI-B | | 64 |
| GRO | TPH 8015M | | <10.0 |
| DRO | TPH 8015M | | <10.0 |

| | | Sample | EAST SAMPLE |
|---------------|------------|--------|-------------|
| Analyte | Method | Date | 12/23/16 |
| | | | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 |
| Toluene | BTEX 8021B | | 0.05 |
| Ethylbenzene | BTEX 8021B | | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 |
| Chloride | SM4500CI-B | | <16.0 |
| GRO | TPH 8015M | | <10.0 |
| DRO | TPH 8015M | | <10.0 |

| | | Sample | SP3 @ 1' |
|---------------|------------|--------|----------|
| Analyte | Method | Date | 12/23/16 |
| | | | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 |
| Toluene | BTEX 8021B | | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 |
| Chloride | SM4500CI-B | | 32 |
| GRO | TPH 8015M | | <10.0 |
| DRO | TPH 8015M | | <10.0 |

| | | Sample | SOUTH SAMPLE |
|---------------|------------|--------|--------------|
| Analyte | Method | Date | 12/23/16 |
| | | | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 |
| Toluene | BTEX 8021B | | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 |
| Chloride | SM4500CI-B | | <16.0 |
| GRO | TPH 8015M | | <10.0 |
| DRO | TPH 8015M | | <10.0 |

| | | Sample | SP4 @ SURFACE |
|---------------|------------|--------|---------------|
| Analyte | Method | Date | 12/23/16 |
| | | | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 |
| Toluene | BTEX 8021B | | 0.058 |
| Ethylbenzene | BTEX 8021B | | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 |
| Chloride | SM4500CI-B | | 16 |
| GRO | TPH 8015M | | <10.0 |
| DRO | TPH 8015M | | 64.9 |

| | | Sample | WEST SAMPLE |
|---------------|------------|--------|-------------|
| Analyte | Method | Date | 12/23/16 |
| | | | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 |
| Toluene | BTEX 8021B | | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 |
| Chloride | SM4500CI-B | | 32 |
| GRO | TPH 8015M | | <10.0 |
| DRO | TPH 8015M | | <10.0 |

| | | Sample | SP5 @ SURFACE |
|---------------|------------|--------|---------------|
| Analyte | Method | Date | 12/23/16 |
| | | | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 |
| Toluene | BTEX 8021B | | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 |
| Chloride | SM4500CI-B | | 16 |
| GRO | TPH 8015M | | <10.0 |
| DRO | TPH 8015M | | <10.0 |

**Laboratory Analytical Results Summary
State AR #003 Battery**

| | | Sample | SP1 @ SURFACE Under liner |
|----------------------|------------|--------|---------------------------------|
| Analyte | Method | Date | 4/18/17 |
| | | | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 |
| Toluene | BTEX 8021B | | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 |
| Chloride | SM4500Cl-B | | 144 |
| GRO | TPH 8015M | | <10.0 |
| DRO | TPH 8015M | | <10.0 |

| | | Sample | SP2 @ SURFACE Under liner |
|----------------------|------------|--------|---------------------------------|
| Analyte | Method | Date | 4/18/17 |
| | | | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 |
| Toluene | BTEX 8021B | | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 |
| Chloride | SM4500Cl-B | | 144 |
| GRO | TPH 8015M | | <10.0 |
| DRO | TPH 8015M | | <10.0 |



January 04, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE AR #003 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/27/16 16:50.

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". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|-----------------------|---------------------|---------------|
| Received: | 12/27/2016 | Sampling Date: | 12/23/2016 |
| Reported: | 01/04/2017 | Sampling Type: | Soil |
| Project Name: | STATE AR #003 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: SP 1 @ 1' (H602872-01)

| 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 | 12/29/2016 | ND | 2.06 | 103 | 2.00 | 1.01 | |
| Toluene* | <0.050 | 0.050 | 12/29/2016 | ND | 2.16 | 108 | 2.00 | 0.806 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/29/2016 | ND | 2.12 | 106 | 2.00 | 0.955 | |
| Total Xylenes* | <0.150 | 0.150 | 12/29/2016 | ND | 6.36 | 106 | 6.00 | 0.865 | |
| Total BTEX | <0.300 | 0.300 | 12/29/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.6-140

| 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 | 12/28/2016 | 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 | 12/28/2016 | ND | 181 | 90.3 | 200 | 0.348 | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/28/2016 | ND | 187 | 93.5 | 200 | 2.11 | |

Surrogate: 1-Chlorooctane 88.8 % 35-147
Surrogate: 1-Chlorooctadecane 101 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|-----------------------|---------------------|---------------|
| Received: | 12/27/2016 | Sampling Date: | 12/23/2016 |
| Reported: | 01/04/2017 | Sampling Type: | Soil |
| Project Name: | STATE AR #003 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: SP 2 @ 1' (H602872-02)

| 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 | 12/29/2016 | ND | 2.06 | 103 | 2.00 | 1.01 | |
| Toluene* | <0.050 | 0.050 | 12/29/2016 | ND | 2.16 | 108 | 2.00 | 0.806 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/29/2016 | ND | 2.12 | 106 | 2.00 | 0.955 | |
| Total Xylenes* | <0.150 | 0.150 | 12/29/2016 | ND | 6.36 | 106 | 6.00 | 0.865 | |
| Total BTEX | <0.300 | 0.300 | 12/29/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 129 % 73.6-140

| 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 | 12/28/2016 | 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 | 12/28/2016 | ND | 181 | 90.3 | 200 | 0.348 | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/28/2016 | ND | 187 | 93.5 | 200 | 2.11 | |

Surrogate: 1-Chlorooctane 91.5 % 35-147

Surrogate: 1-Chlorooctadecane 87.5 % 28-171

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

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|-----------------------|---------------------|---------------|
| Received: | 12/27/2016 | Sampling Date: | 12/23/2016 |
| Reported: | 01/04/2017 | Sampling Type: | Soil |
| Project Name: | STATE AR #003 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: SP 3 @ 1' (H602872-03)

| 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 | 12/29/2016 | ND | 2.06 | 103 | 2.00 | 1.01 | |
| Toluene* | <0.050 | 0.050 | 12/29/2016 | ND | 2.16 | 108 | 2.00 | 0.806 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/29/2016 | ND | 2.12 | 106 | 2.00 | 0.955 | |
| Total Xylenes* | <0.150 | 0.150 | 12/29/2016 | ND | 6.36 | 106 | 6.00 | 0.865 | |
| Total BTEX | <0.300 | 0.300 | 12/29/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 12/28/2016 | 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 | 12/28/2016 | ND | 181 | 90.3 | 200 | 0.348 | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/28/2016 | ND | 187 | 93.5 | 200 | 2.11 | |

Surrogate: 1-Chlorooctane 88.5 % 35-147
Surrogate: 1-Chlorooctadecane 87.2 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|-----------------------|---------------------|---------------|
| Received: | 12/27/2016 | Sampling Date: | 12/23/2016 |
| Reported: | 01/04/2017 | Sampling Type: | Soil |
| Project Name: | STATE AR #003 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: SP 4 @ SURFACE (H602872-04)

| 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 | 12/29/2016 | ND | 2.06 | 103 | 2.00 | 1.01 | | |
| Toluene* | 0.058 | 0.050 | 12/29/2016 | ND | 2.16 | 108 | 2.00 | 0.806 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/29/2016 | ND | 2.12 | 106 | 2.00 | 0.955 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/29/2016 | ND | 6.36 | 106 | 6.00 | 0.865 | | |
| Total BTEX | <0.300 | 0.300 | 12/29/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 16.0 | 16.0 | 12/28/2016 | 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 | 12/28/2016 | ND | 181 | 90.3 | 200 | 0.348 | | |
| DRO >C10-C28 | 64.9 | 10.0 | 12/28/2016 | ND | 187 | 93.5 | 200 | 2.11 | | |

Surrogate: 1-Chlorooctane 62.0 % 35-147

Surrogate: 1-Chlorooctadecane 68.9 % 28-171

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|-----------------------|---------------------|---------------|
| Received: | 12/27/2016 | Sampling Date: | 12/23/2016 |
| Reported: | 01/04/2017 | Sampling Type: | Soil |
| Project Name: | STATE AR #003 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: SP 5 @ SURFACE (H602872-05)

| 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 | 12/29/2016 | ND | 2.06 | 103 | 2.00 | 1.01 | | |
| Toluene* | <0.050 | 0.050 | 12/29/2016 | ND | 2.16 | 108 | 2.00 | 0.806 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/29/2016 | ND | 2.12 | 106 | 2.00 | 0.955 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/29/2016 | ND | 6.36 | 106 | 6.00 | 0.865 | | |
| Total BTEX | <0.300 | 0.300 | 12/29/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.6-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 16.0 | 16.0 | 12/28/2016 | 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 | 12/28/2016 | ND | 181 | 90.3 | 200 | 0.348 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/28/2016 | ND | 187 | 93.5 | 200 | 2.11 | | |

Surrogate: 1-Chlorooctane 86.6 % 35-147

Surrogate: 1-Chlorooctadecane 94.2 % 28-171

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|-----------------------|---------------------|---------------|
| Received: | 12/27/2016 | Sampling Date: | 12/23/2016 |
| Reported: | 01/04/2017 | Sampling Type: | Soil |
| Project Name: | STATE AR #003 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: NORTH SAMPLE (H602872-06)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 12/29/2016 | ND | 2.06 | 103 | 2.00 | 1.01 | | |
| Toluene* | <0.050 | 0.050 | 12/29/2016 | ND | 2.16 | 108 | 2.00 | 0.806 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/29/2016 | ND | 2.12 | 106 | 2.00 | 0.955 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/29/2016 | ND | 6.36 | 106 | 6.00 | 0.865 | | |
| Total BTEX | <0.300 | 0.300 | 12/29/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | <16.0 | 16.0 | 12/28/2016 | 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 | 12/28/2016 | ND | 181 | 90.3 | 200 | 0.348 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/28/2016 | ND | 187 | 93.5 | 200 | 2.11 | | |

Surrogate: 1-Chlorooctane 76.5 % 35-147

Surrogate: 1-Chlorooctadecane 83.5 % 28-171

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|-----------------------|---------------------|---------------|
| Received: | 12/27/2016 | Sampling Date: | 12/23/2016 |
| Reported: | 01/04/2017 | Sampling Type: | Soil |
| Project Name: | STATE AR #003 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: EAST SAMPLE (H602872-07)

| 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 | 12/29/2016 | ND | 2.06 | 103 | 2.00 | 1.01 | | |
| Toluene* | 0.050 | 0.050 | 12/29/2016 | ND | 2.16 | 108 | 2.00 | 0.806 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/29/2016 | ND | 2.12 | 106 | 2.00 | 0.955 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/29/2016 | ND | 6.36 | 106 | 6.00 | 0.865 | | |
| Total BTEX | <0.300 | 0.300 | 12/29/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | <16.0 | 16.0 | 12/28/2016 | 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 | 12/28/2016 | ND | 181 | 90.3 | 200 | 0.348 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/28/2016 | ND | 187 | 93.5 | 200 | 2.11 | | |

Surrogate: 1-Chlorooctane 68.7 % 35-147

Surrogate: 1-Chlorooctadecane 69.4 % 28-171

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|-----------------------|---------------------|---------------|
| Received: | 12/27/2016 | Sampling Date: | 12/23/2016 |
| Reported: | 01/04/2017 | Sampling Type: | Soil |
| Project Name: | STATE AR #003 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: SOUTH SAMPLE (H602872-08)

| 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 | 12/29/2016 | ND | 2.06 | 103 | 2.00 | 1.01 | | |
| Toluene* | <0.050 | 0.050 | 12/29/2016 | ND | 2.16 | 108 | 2.00 | 0.806 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/29/2016 | ND | 2.12 | 106 | 2.00 | 0.955 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/29/2016 | ND | 6.36 | 106 | 6.00 | 0.865 | | |
| Total BTEX | <0.300 | 0.300 | 12/29/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | <16.0 | 16.0 | 12/28/2016 | 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 | 12/29/2016 | ND | 222 | 111 | 200 | 1.28 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/29/2016 | ND | 227 | 113 | 200 | 4.73 | | |

Surrogate: 1-Chlorooctane 86.3 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|-----------------------|---------------------|---------------|
| Received: | 12/27/2016 | Sampling Date: | 12/23/2016 |
| Reported: | 01/04/2017 | Sampling Type: | Soil |
| Project Name: | STATE AR #003 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: WEST SAMPLE (H602872-09)

| 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 | 12/30/2016 | ND | 1.82 | 91.1 | 2.00 | 2.19 | | |
| Toluene* | <0.050 | 0.050 | 12/30/2016 | ND | 1.85 | 92.3 | 2.00 | 2.27 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/30/2016 | ND | 1.90 | 95.0 | 2.00 | 2.67 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/30/2016 | ND | 5.54 | 92.3 | 6.00 | 2.61 | | |
| Total BTEX | <0.300 | 0.300 | 12/30/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 12/28/2016 | 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 | 12/29/2016 | ND | 222 | 111 | 200 | 1.28 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/29/2016 | ND | 227 | 113 | 200 | 4.73 | | |

Surrogate: 1-Chlorooctane 96.6 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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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



Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

191

| | | | | | | | | | | | |
|---|---------------|---------------------|--------------|---|---------|-------------------------|-------|---|------|---|--|
| Company Name: BBC International, Inc. | | P.O. #: | | BILL TO | | ANALYSIS REQUEST | | | | | |
| Project Manager: Cliff Brunson | | Company: OXY | | | | | | | | | |
| Address: P.O. Box 805 | | Attn: Casey Summers | | | | | | | | | |
| City: Hobbs | | Address: | | | | | | | | | |
| State: NM zip: 88241 | | City: | | | | | | | | | |
| Phone #: 575-397-6388 | | State: | | | | | | | | | |
| Fax #: 575-397-0397 | | Zip: | | | | | | | | | |
| Project #: | | Project Owner: | | | | | | | | | |
| Project Name: STATE AR # 003 BATTERY | | Phone #: | | | | | | | | | |
| Project Location: | | Fax #: | | | | | | | | | |
| Sampler Name: ROGER HERNANDEZ | | PRESERV: | | | | | | | | | |
| FOR LAB USE ONLY | | SAMPLING | | | | | | | | | |
| Lab I.D. H1602472 | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | PRESERV | DATE | TIME | TPH | BTEX | CL- | |
| 1 | SP1 @ 1' | | 1 | ✓ | | 12-23-16 | 9:00 | ✓ | ✓ | ✓ | |
| 2 | SP2 @ 1' | | 1 | ✓ | | 12-23-16 | 9:50 | ✓ | ✓ | ✓ | |
| 3 | SP3 @ 1' | | 1 | ✓ | | 12-23-16 | 10:40 | ✓ | ✓ | ✓ | |
| 4 | SP4 @ SURFACE | | 1 | ✓ | | 12-23-16 | 10:50 | ✓ | ✓ | ✓ | |
| 5 | SP5 @ SURFACE | | 1 | ✓ | | 12-23-16 | 11:00 | ✓ | ✓ | ✓ | |
| 6 | NORTH SAMPLE | | 1 | ✓ | | 12-23-16 | 17:30 | ✓ | ✓ | ✓ | |
| 7 | EAST SAMPLE | | 1 | ✓ | | 12-23-16 | 1:00 | ✓ | ✓ | ✓ | |
| 8 | SOUTH SAMPLE | | 1 | ✓ | | 12-23-16 | 1:25 | ✓ | ✓ | ✓ | |
| 9 | WEST SAMPLE | | 1 | ✓ | | 12-23-16 | 1:40 | ✓ | ✓ | ✓ | |
| Relinquished By: ROGER HERNANDEZ | | Date: 12-27-16 | | Received By: Jodi Menden | | Time: 4:30 | | Sample Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Add'l Phone #: <input type="checkbox"/> Add'l Fax #: <input type="checkbox"/> | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: #15 | | Time: 3:52 | | Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No | | CHECKED BY: [Signature] | | | | | |

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



May 02, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE AR #003 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/26/17 13:20.

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". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|-----------------------|---------------------|----------------|
| Received: | 04/26/2017 | Sampling Date: | 04/18/2017 |
| Reported: | 05/02/2017 | Sampling Type: | Soil |
| Project Name: | STATE AR #003 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: SP 1 @ SURFACE (H701111-01)

| BTEX 8021B | | mg/kg | | Analyzed By: BF | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/29/2017 | ND | 1.87 | 93.4 | 2.00 | 0.114 | |
| Toluene* | <0.050 | 0.050 | 04/29/2017 | ND | 1.93 | 96.5 | 2.00 | 0.819 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/29/2017 | ND | 1.94 | 97.1 | 2.00 | 0.802 | |
| Total Xylenes* | <0.150 | 0.150 | 04/29/2017 | ND | 5.79 | 96.5 | 6.00 | 0.883 | |
| Total BTEX | <0.300 | 0.300 | 04/29/2017 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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 | 144 | 16.0 | 04/28/2017 | ND | 416 | 104 | 400 | 3.92 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/27/2017 | ND | 198 | 99.1 | 200 | 1.29 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/27/2017 | ND | 195 | 97.3 | 200 | 2.64 | |

Surrogate: 1-Chlorooctane 82.3 % 28.3-164
Surrogate: 1-Chlorooctadecane 77.5 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

| | | | |
|-------------------|-----------------------|---------------------|----------------|
| Received: | 04/26/2017 | Sampling Date: | 04/18/2017 |
| Reported: | 05/02/2017 | Sampling Type: | Soil |
| Project Name: | STATE AR #003 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: SP 2 @ SURFACE (H701111-02)

| BTEX 8021B | | mg/kg | | Analyzed By: BF | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/29/2017 | ND | 1.87 | 93.4 | 2.00 | 0.114 | |
| Toluene* | <0.050 | 0.050 | 04/29/2017 | ND | 1.93 | 96.5 | 2.00 | 0.819 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/29/2017 | ND | 1.94 | 97.1 | 2.00 | 0.802 | |
| Total Xylenes* | <0.150 | 0.150 | 04/29/2017 | ND | 5.79 | 96.5 | 6.00 | 0.883 | |
| Total BTEX | <0.300 | 0.300 | 04/29/2017 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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 | 144 | 16.0 | 04/28/2017 | ND | 416 | 104 | 400 | 3.92 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/27/2017 | ND | 198 | 99.1 | 200 | 1.29 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/27/2017 | ND | 195 | 97.3 | 200 | 2.64 | |

Surrogate: 1-Chlorooctane 81.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 79.4 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

From: Yu, Olivia, EMNRD
To: [Cliff Brunson](#); [Casey_Summers@oxy.com](#); [Jennifer_Hudgens@oxy.com](#); [agroves@slo.state.nm.us](#)
Cc: [Oberding, Tomas, EMNRD](#); [Houston, Kristen, EMNRD](#); "Kathy Purvis"; "Jennifer Gilkey"; [Ken Swinney](#)
Subject: RE: OXY - State AR #003 Battery - Remediation Plan
Date: Tuesday, March 7, 2017 12:14:43 PM
Attachments: [Reviewed_1RP4518_workplan_wphotos.pdf](#)

Dear Mr. Brunson:

Thank you for the photos. The delineation workplan for 1RP-4518 is approved with the stated conditions. Please see the attachment for your records.

Thanks,
Olivia

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Tuesday, February 28, 2017 9:33 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Casey_Summers@oxy.com;
Jennifer_Hudgens@oxy.com; agroves@slo.state.nm.us
Cc: Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>; Houston, Kristen, EMNRD
<Kristen.Houston@state.nm.us>; 'Kathy Purvis' <kathy@bbcinternational.com>; 'Jennifer Gilkey'
<jgilkey@bbcinternational.com>; Ken Swinney <kswinney@bbcinternational.com>
Subject: RE: OXY - State AR #003 Battery - Remediation Plan

Olivia,

Listed below are the responses to your concerns in your email:

1. Upon receiving your email, we visited the site and took the attached picture of the wellhead area. The non-recordable release seen on the Google earth image had been taken care of and the area backfilled with gray gravel so a sample location here is not necessary.
2. Two sample points will be collected within the battery for vertical delineation.
3. Attached are photos of the fire and release.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
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E-Mail: cbrunson@bbcinternational.com



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From: Yu, Olivia, EMNRD [<mailto:Olivia.Yu@state.nm.us>]
Sent: Monday, February 20, 2017 3:54 PM
To: 'Cliff Brunson' <cbrunson@bbcinternational.com>; Casey_Summers@oxy.com;
Jennifer_Hudgens@oxy.com; 'agroves@slo.state.nm.us' <agroves@slo.state.nm.us>
Cc: Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>; Lynch, Kristen, EMNRD
<Kristen.Lynch@state.nm.us>; 'Kathy Purvis' <kathy@bbcinternational.com>; 'Jennifer Gilkey'
<jgilkey@bbcinternational.com>
Subject: RE: OXY - State AR #003 Battery - Remediation Plan

Dear Mr. Brunson:

Please address the following concerns regarding the workplan for 1RP-4518:

1. According to a recent Google Earth image, apparently taken after the fire, there seems to be a release surrounding the pump jack. One sample location should be established here.
2. Initial C-141 did not mention a lined battery. Due to the depth to groundwater and volume of release, NMOCD request a minimum of two sample locations within the battery to be vertically delineated.
3. Provide photos of release if available.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Cliff Brunson
Sent: Saturday, January 28, 2017 6:45:00 PM (UTC-07:00) Mountain Time (US & Canada)
To: Lynch, Kristen, EMNRD
Cc: Casey Summers; Jennifer Hudgens; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY - State AR #003 Battery - Remediation Plan

Kristen,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY State AR #003 Battery release. I have attached the information packet that we used in our discussion on 2/25/17 with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
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E-Mail: cbrunson@bbcinternational.com



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