

PHONE (575) 397-6388 • FAX (575) 397-0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805 E-MAIL: cbrunson@bbcinternational.com

DELINEATION WORKPLAN

COG – COPPERHEAD FEE A #003H (Leak Date: 5/14/18)

RP # 2RP-4747

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4747.

The following information includes:

- 1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
- 2. GPS information for sample points and sample methodology
- 3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
- 4. Laboratory analysis results summary table and original laboratory analysis reports
- 5. A copy of the initial C-141
- 6. Potentially other pertinent information as necessary for site specific purposes.

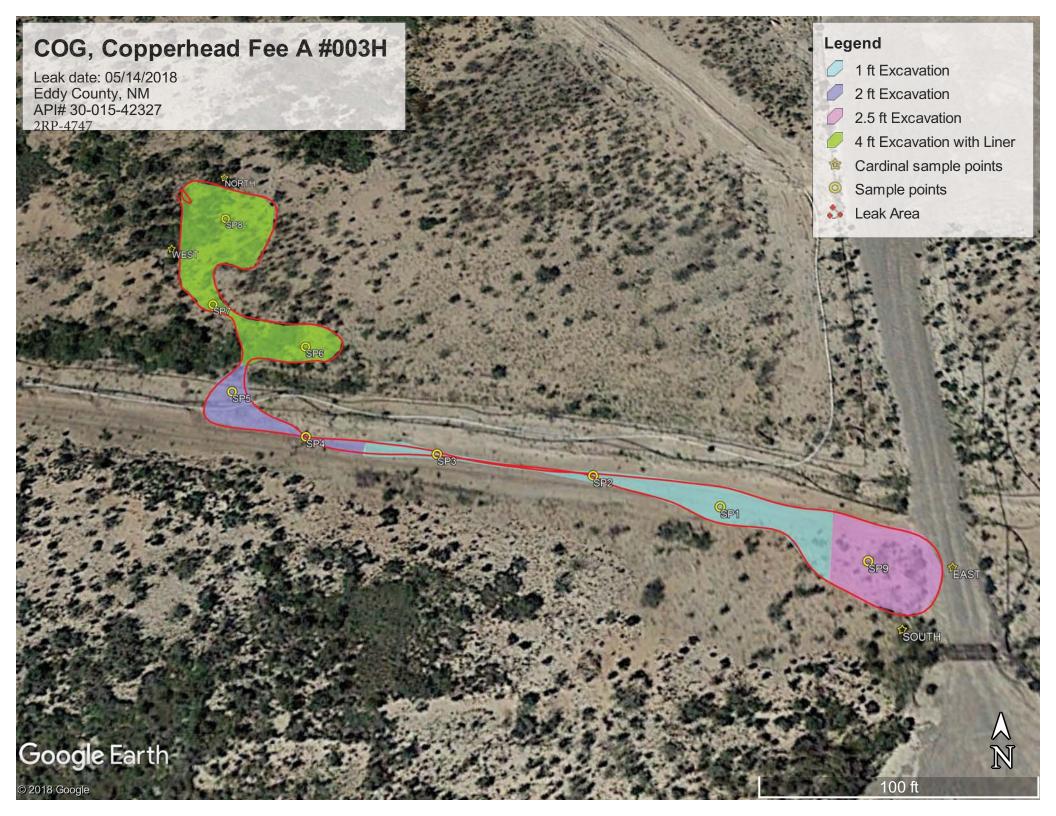
Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

COG will excavate the spill area as depicted on the following site diagram. The leak area near SP1 – SP3 (blue shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP4 and SP5 (purple shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP6 – SP8 (green shade on diagram) will be excavated to a depth of 4 feet with an impermeable liner placed in the bottom of the excavation. The leak area near SP9 (pink shade on diagram) will be excavated to a depth of 2.5 feet.

SP8 is the leak point and it will be fully delineated utilizing a rig the week of August 20th. Upon receiving the laboratory results, COG will notify the OCD and BLM with the results. The current results indicate that a liner needs to be installed therefore this plan has been submitted prior to complete delineation.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.



COG, Cooperhead Fee A #003H

Sample points

SP1, N 32.00056 W-104.02793

SP2, N 32.00060 W-104.02810

SP3, N 32.00062 W-104.02830

SP4, N 32.00065 W-104.02848

SP5, N 32.00071 W-104.02859

SP6, N 32.00077 W-104.02850

SP7, N 32.00083 W-104.02864

SP8, N 32.00097 W-104.02865

SP9, N 32.00050 W-104.02775

NORTH, N 32.00104 W-104.02866

SOUTH, N 32.00042 W-104.02772

EAST, N 32.00049 W-104.02764

WEST, N 32.00092 W-104.02872

COG, Copperhead Fee A #003H U/L E, Section 31, T26S, R29E

Groundwater: 50'





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 591592 **Northing (Y):** 3541335 **Radius:** 1700

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.

5/22/18 10:28 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER UTM Conversion Tool Page 1 of 1

| | | | DI-I | | | | (DI 6 | 20) | | | | | |
|---|---------------------------------------|----------|--------------|------------|----------|-------------------------|-----------|------------|----------|----------|--|--|--|
| | | | | ic Land S | _ | | _ ` | | | | | | |
| | Q64: 💙 | Q16: | NW 🗸 | Q4: NW | ~ | Sec: 31 ✓ | Tws | : 26S 🗸 | Rng: 29E | | | | |
| | | | | | | | | | | | | | |
| | State Plane Coordinate System - NAD27 | | | | | | | | | | | | |
| 0 | x : 0 | ft | Y: 0 | | ft | Zone: | | | | ~ | | | |
| | | | | | | | | | | | | | |
| | | | State P | lane Coo | rdin | ate Syst | em - N | AD83 | | | | | |
| | x : 0 | ft | Y : 0 | | ft | Zone: | | A200 | | | | | |
| | X : 0 | _ 11 | 1: 0 | | 11 | Zone: | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | Degrees/ | Minu | utes/Sec | onds | | | | | | |
| 0 | Longitude (X): | | Deg | rees: 0 | 0 | Minu | tes: 0 | • | Seconds: | 0 " | | | |
| | Latitude (Y): | | Dea | rees: 0 | • | Minu | tes: 0 | | Seconds: | 0 " | | | |
| | , | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | M - I | NAD27 | | | | | | | |
| | Easting | (X): | 0 | mtr | S | Northing | (Y): | 0 | mt | rs Zone: | | | |
| | | | · · | | | | | | | | | | |
| | | | | | SUI | вміт | | | | | | | |
| | All Co | nvers | ion Res | ults are d | lispla | ayed as l | NAD 1 | 983 UTM | Zone 13 | | | | |
| | Easting () | (): 5915 | 592.0 | mtrs | | Nort | hing (Y): | 3541335.0 | mtrs | | | | |
| | | | | 1 | | | | | | | | | |
| | ~ | ~ Pleas | se keep s | creen ope | n to c | сору UTM | values | for Report | s. ~~ | | | | |

Laboratory Analytical Results Summary Copperhead Fee A #003H (5/14/18)

| | | | SP1 @ | | | |
|---------------|------------|-----------|---------|----------|----------|----------|
| | | Sample ID | SURFACE | SP1 @ 1' | SP1 @ 2' | SP1 @ 3' |
| Analyte | Method | Date | 7/18/18 | 7/18/18 | 7/18/18 | 7/18/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg |
| Benzene | BTEX 8021B | | <0.050 | n/a | n/a | n/a |
| Toluene | BTEX 8021B | | <0.050 | n/a | n/a | n/a |
| Ethylbenzene | BTEX 8021B | | <0.050 | n/a | n/a | n/a |
| Total Xylenes | BTEX 8021B | | <0.150 | n/a | n/a | n/a |
| Total BTEX | BTEX 8021B | | <0.300 | n/a | n/a | n/a |
| Chloride | SM4500CI-B | | 4320 | 608 | 272 | 224 |
| GRO | TPH 8015M | | <10.0 | n/a | n/a | n/a |
| DRO | TPH 8015M | | <10.0 | n/a | n/a | n/a |
| EXT DRO | TPH 8015M | | <10.0 | n/a | n/a | n/a |

| | | | SP2 @ | | | |
|----------|------------|-----------|---------|----------|----------|----------|
| | | Sample ID | SURFACE | SP2 @ 1' | SP2 @ 2' | SP2 @ 3' |
| Analyte | Method | Date | 7/18/18 | 7/18/18 | 7/18/18 | 7/18/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg |
| Chloride | SM4500CI-B | | 4720 | 512 | 288 | 240 |

| | | | SP3 @ | | | |
|----------|------------|-----------|---------|----------|----------|----------|
| | | Sample ID | SURFACE | SP3 @ 1' | SP3 @ 2' | SP3 @ 3' |
| Analyte | Method | Date | 7/18/18 | 7/18/18 | 7/18/18 | 7/18/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg |
| Chloride | SM4500CI-B | | 3760 | 608 | 272 | 256 |

| | | | SP4 @ | | | |
|---------------|------------|-----------|---------|----------|----------|----------|
| | | Sample ID | SURFACE | SP4 @ 1' | SP4 @ 2' | SP4 @ 3' |
| Analyte | Method | Date | 7/18/18 | 7/19/18 | 7/19/18 | 7/19/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg |
| Benzene | BTEX 8021B | | <0.050 | n/a | n/a | n/a |
| Toluene | BTEX 8021B | | <0.050 | n/a | n/a | n/a |
| Ethylbenzene | BTEX 8021B | | <0.050 | n/a | n/a | n/a |
| Total Xylenes | BTEX 8021B | | <0.150 | n/a | n/a | n/a |
| Total BTEX | BTEX 8021B | | <0.300 | n/a | n/a | n/a |
| Chloride | SM4500CI-B | | 32000 | 752 | 656 | 208 |
| GRO | TPH 8015M | | <10.0 | n/a | n/a | n/a |
| DRO | TPH 8015M | | <10.0 | n/a | n/a | n/a |
| EXT DRO | TPH 8015M | | <10.0 | n/a | n/a | n/a |

| | | Sample ID | SP5 @ SURFACE | SP5 @ 1' | SP5 @ 2' | SP5 @ 3' |
|----------|------------|-----------|------------------|----------|----------|----------|
| Analyte | Method | Date | 7/19/18 | 7/19/18 | 7/19/18 | 7/19/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg |
| Chloride | SM4500CI-B | | 33600 | 720 | 544 | 160 |

| | | Sample ID | SP6 @ SURFACE | SP6 @ 1' | SP6 @ 2' | SP6 @ 3' | SP6 @ 4' | SP6 @ 5' |
|----------|------------|-----------|------------------|----------|----------|----------|----------|----------|
| Analyte | Method | Date | 7/19/18 | 7/19/18 | 7/19/18 | 7/19/18 | 7/19/18 | 7/19/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Chloride | SM4500CI-B | | 29600 | 640 | 1540 | 1420 | 560 | 224 |

| | | Sample ID | SP7 @ SURFACE | SP7 @ 1' | SP7 @ 3' | SP7 @ 4' | SP7 @ 7' | SP7 @ 8' |
|----------|------------|-----------|------------------|----------|----------|----------|----------|----------|
| Analyte | Method | Date | 7/19/18 | 7/19/18 | 7/19/18 | 7/19/18 | 7/19/18 | 7/19/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Chloride | SM4500CI-B | | 8800 | 4160 | 960 | 960 | 496 | 128 |

| | | | 000 | | | | |
|---------------|------------|-----------|------------------|----------|----------|----------|-----------|
| | | | SP8 @ SURFACE | CD0 @ 41 | CDO @ FI | CD0 @ 01 | CD0 @ 401 |
| | | Sample ID | SURFACE | SP8 @ 1' | SP8 @ 5' | SP8 @ 9' | SP8 @ 13' |
| Analyte | Method | Date | 7/19/18 | 7/19/18 | 7/20/18 | 7/20/18 | 7/20/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Benzene | BTEX 8021B | | <0.050 | n/a | n/a | n/a | n/a |
| Toluene | BTEX 8021B | | <0.050 | n/a | n/a | n/a | n/a |
| Ethylbenzene | BTEX 8021B | | <0.050 | n/a | n/a | n/a | n/a |
| Total Xylenes | BTEX 8021B | | <0.150 | n/a | n/a | n/a | n/a |
| Total BTEX | BTEX 8021B | | < 0.300 | n/a | n/a | n/a | n/a |
| Chloride | SM4500CI-B | | 7600 | 4560 | 9600 | 7600 | 6000 |
| GRO | TPH 8015M | | <10.0 | n/a | n/a | n/a | n/a |
| DRO | TPH 8015M | | <10.0 | n/a | n/a | n/a | n/a |
| EXT DRO | TPH 8015M | | <10.0 | n/a | n/a | n/a | n/a |

| | | Sample ID | SP9 @ SURFACE | SP9 @ 1' | SP9 @ 2' | SP9 @ 3' | SP9 @ 4' |
|----------|------------|-----------|------------------|----------|----------|----------|----------|
| Analyte | Method | Date | 7/20/18 | 7/20/18 | 7/20/18 | 7/20/18 | 7/20/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Chloride | SM4500CI-B | | 44800 | 3240 | 1710 | 432 | 128 |

| | | | NORTH @ | EAST @ | WEST @ | SOUTH @ |
|----------|------------|-----------|---------|---------|---------|---------|
| | | Sample ID | SURFACE | SURFACE | SURFACE | SURFACE |
| Analyte | Method | Date | 7/20/18 | 7/20/18 | 7/20/18 | 7/20/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg |
| Chloride | SM4500CI-B | | 160 | 160 | 160 | 192 |



July 30, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: COPPERHEAD FEE A #3H

Enclosed are the results of analyses for samples received by the laboratory on 07/24/18 12:40.

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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celeg D. Keens

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



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/18/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

Applymed By MC

Project Location: COG

DTEV 0021D

Sample ID: SP 1 @ SURFACE (H802015-01)

| BTEX 8021B | mg/ | kg | Analyze | ed By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.83 | 91.5 | 2.00 | 5.32 | |
| Toluene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.87 | 93.5 | 2.00 | 6.73 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.90 | 95.0 | 2.00 | 6.51 | |
| Total Xylenes* | <0.150 | 0.150 | 07/27/2018 | ND | 5.56 | 92.7 | 6.00 | 5.88 | |
| Total BTEX | <0.300 | 0.300 | 07/27/2018 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 105 % | 69.8-14 | 2 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4320 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |
| TPH 8015M | mg/ | kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/26/2018 | ND | 182 | 91.2 | 200 | 2.04 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/26/2018 | ND | 192 | 95.9 | 200 | 2.78 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/26/2018 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 91.0 9 | % 41-142 | • | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.1 9 | % 37.6-14 | 7 | | | | | | |

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/18/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: (5/14/18)Tamara Oldaker

Project Location: COG

| Chloride, SM4500CI-B | mg/kg | | Analyzed By: AC | | | | | | |
|---|------------|------------------------|----------------------------|------------------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 608 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |
| | | | | | | | | | |
| Sample ID: SP 1 @ 2' (H | 802015-03) | | | | | | | | |
| Sample ID: SP 1 @ 2' (H Chloride, SM4500Cl-B | - | /kg | Analyze | ed By: AC | | | | | |
| • | - | /kg Reporting Limit | Analyze Analyzed | d By: AC Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |

Sample ID: SP 1 @ 3' (H802015-04)

| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 2 @ SURFACE (H802015-05)

| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4720 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 2 @ 1' (H802015-06)

| Chloride, SM4500Cl-B mg/kg | | | Analyzed By: AC | | | | | | |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 512 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

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.



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/18/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact Project Number: Sample Received By: (5/14/18)Tamara Oldaker

Project Location: COG

| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
|---|------------------|------------------------|-------------------------|------------------------|---------------|------------|----------------------|-------------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS % Recovery | % Recovery | True Value QC | RPD | Qualifie |
| Chloride | 288 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |
| | | | | | | | | | |
| Sample ID: SP 2 @ 3' (H8 | 802015-08) | | | | | | | | |
| • | 802015-08) mg | /kg | Analyze | d By: AC | | | | | |
| • | - | /kg Reporting Limit | Analyze Analyzed | d By: AC Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sample ID: SP 2 @ 3' (H8 Chloride, SM4500Cl-B Analyte Chloride | mg | | • | | BS 432 | % Recovery | True Value QC 400 | RPD 7.69 | Qualifier |

| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3760 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 3 @ 1' (H802015-10)

| Chloride, SM4500Cl-B | Chloride, SM4500Cl-B mg/kg | | | d By: AC | | | | | |
|----------------------|----------------------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 608 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 3 @ 2' (H802015-11)

| Chloride, SM4500Cl-B mg/kg | | | Analyze | d By: AC | | | | | |
|----------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 272 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

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 competent 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.



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/18/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

Project Location: COG

Sample ID: SP 3 @ 3' (H802015-12)

| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 256 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/18/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: (5/14/18)Tamara Oldaker

Project Location: COG

Sample ID: SP 4 @ SURFACE (H802015-13)

| BTEX 8021B | mg, | 'kg | Analyze | ed By: MS | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.83 | 91.5 | 2.00 | 5.32 | |
| Toluene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.87 | 93.5 | 2.00 | 6.73 | |
| Ethylbenzene* | < 0.050 | 0.050 | 07/27/2018 | ND | 1.90 | 95.0 | 2.00 | 6.51 | |
| Total Xylenes* | <0.150 | 0.150 | 07/27/2018 | ND | 5.56 | 92.7 | 6.00 | 5.88 | |
| Total BTEX | <0.300 | 0.300 | 07/27/2018 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 104 | % 69.8-14 | 12 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32000 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |
| TPH 8015M | mg, | 'kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/26/2018 | ND | 182 | 91.2 | 200 | 2.04 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/26/2018 | ND | 192 | 95.9 | 200 | 2.78 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/26/2018 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 92.7 | % 41-142 | ? | | | | | | |
| Surrogate: 1-Chlorooctadecane | 96.0 | % 37.6-14 | !7 | | | | | | |

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 competent 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.



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

Project Location: COG

Sample ID: SP 4 @ 1' (H802015-14)

| Chloride, SM4500CI-B | mg | /kg | Analyze | ed By: AC | | | | | |
|-------------------------|--------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 752 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |
| Sample ID: SP 4 @ 2' (H | 802015-15) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 656 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |
| Sample ID: SP 4 @ 3' (H | 802015-16) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 208 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |
| Sample ID: SP 5 @ SURF | ACE (H802015 | 5-17) | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 33600 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |
| Sample ID: SP 5 @ 1' (H | 802015-18) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 720 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: (5/14/18)Tamara Oldaker

Project Location: COG

Sample ID: SP 5 @ 2' (H802015-19)

| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
|-------------------------|--------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 544 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |
| Sample ID: SP 5 @ 3' (H | 802015-20) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| Sample ID: SP 6 @ SURF | ACE (H802015 | 5-21) | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 29600 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| Sample ID: SP 6 @ 1' (H | 802015-22) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 640 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| Sample ID: SP 6 @ 2' (H | 802015-23) | | | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1540 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3 77 | |

| Chloride, SM4500Cl-B | oride, SM4500Cl-B mg/kg | | | d By: AC | | | | | |
|----------------------|-------------------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1540 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

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 competent 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.



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: (5/14/18)Tamara Oldaker

Project Location: COG

Sample ID: SP 6 @ 3' (H802015-24)

| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Chloride | 1420 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| Sample ID: SP 6 @ 4' (H | 802015-25) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 560 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| Sample ID: SP 6 @ 5' (H | 802015-26) | | | | | | | | |
| Chloride, SM4500CI-B | mg | mg/kg | | Analyzed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| Sample ID: SP 7 @ SURF | ACE (H80201 | 5-27) | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8800 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| Sample ID: SP 7 @ 1' (H | 802015-28) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chlorida | 4160 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3 77 | |

| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4160 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

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 competent 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.



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

Project Location: COG

Sample ID: SP 7 @ 3' (H802015-29)

| Chloride, SM4500CI-B | mg | mg/kg | | Analyzed By: AC | | | | | |
|-------------------------|------------|-----------------|-----------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 960 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| Sample ID: SP 7 @ 4' (H | 802015-30) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 960 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| Sample ID: SP 7 @ 7' (H | 802015-31) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 496 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| Sample ID: SP 7 @ 8' (H | 802015-32) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | | | | | | | | | |

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: (5/14/18)

Project Location: COG

Sample ID: SP 8 @ SURFACE (H802015-33)

| BTEX 8021B | mg, | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.83 | 91.5 | 2.00 | 5.32 | |
| Toluene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.87 | 93.5 | 2.00 | 6.73 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.90 | 95.0 | 2.00 | 6.51 | |
| Total Xylenes* | <0.150 | 0.150 | 07/27/2018 | ND | 5.56 | 92.7 | 6.00 | 5.88 | |
| Total BTEX | <0.300 | 0.300 | 07/27/2018 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 106 | % 69.8-14 | 2 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 7600 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/26/2018 | ND | 182 | 91.2 | 200 | 2.04 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/26/2018 | ND | 192 | 95.9 | 200 | 2.78 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/26/2018 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 95.1 | % 41-142 | ? | | | | | | |
| Surrogate: 1-Chlorooctadecane | 96.0 | % 37.6-14 | 7 | | | | | | |

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 competent 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.



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

Project Location: COG

Sample ID: SP 8 @ 1' (H802015-34)

| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
|--------------------------|-------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4560 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| Sample ID: SP 8 @ 5' (H8 | 802015-35) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 9600 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| Sample ID: SP 8 @ 9' (H8 | 802015-36) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 7600 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| Sample ID: SP 8 @ 13' (F | 1802015-37) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 6000 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| Sample ID: SP 8 @ 16' (F | 1802015-38) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5440 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/20/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

Project Location: COG

Sample ID: SP 9 @ SURFACE (H802015-39)

| Chloride, SM4500Cl-B | mg | /kg | Analyzed By: AC | | | | | | |
|-------------------------|------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 44800 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |
| Sample ID: SP 9 @ 1' (H | 802015-40) | | | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3240 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 9 @ 2' (H802015-41)

| Chloride, SM4500Cl-B | mg/ | 'kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1710 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 9 @ 3' (H802015-42)

| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 432 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 9 @ 4' (H802015-43)

| Chloride, SM4500Cl-B mg/kg | | | Analyze | d By: AC | | | | | |
|----------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 128 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

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 whistoever 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.



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 07/24/2018 Sampling Date: 07/20/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: COPPERHEAD FEE A #3H Sampling Condition: Cool & Intact
Project Number: (5/14/18) Sample Received By: Tamara Oldaker

Project Location: COG

Sample ID: NORTH SURFACE (H802015-44)

| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: EAST SURFACE (H802015-45)

| Chloride, SM4500Cl-B | ide, SM4500Cl-B mg/kg | | | d By: AC | | | | | |
|----------------------|-----------------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: WEST SURFACE (H802015-46)

| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SOUTH SURFACE (H802015-47)

| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 192 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

| Company Name | ompany Name: BBC International, Inc. oject Manager: Cliff Brunson | | | | | | | | | BI | LL TO | | 1231 | | | | | ANA | LYS | IS I | REC | QUES | ST. | | |
|-------------------------------------|--|--------|--------------|---------|--------------|--------|-----------|---------|------------|-----------|--------------------|--------------------|------------|------|----------|---|----|-------|-------|------|-----|------|-----|------|--|
| Project Manage | r: Cliff Brunson | | | | | | F | 2.0. | #: | | | | | | | | | | | | | | | | |
| Address: P.O. | . Box 805 | | | | | | 0 | on | npar | ıy: (| 60 G | | | | | | | | | | | | | | |
| City: Hobbs | State: NM | Zip | : 8 | 382 | 41 | | 1 | ttn | ı: | | | | | | 0 | | | | | | | | | 1 | |
| Phone #: 575- | 397-6388 Fax #: 575 | -397 | 7-0 | 397 | 7 | | A | dd | ress | s: | 2 | | | | 00 | | | | | | | | | 1 | |
| Project #: | Project Owner | TQ. | | | | | | ity | : | | | | | | extendod | | | | | | | | | | |
| Project Name: (| Copperhead Fee A #3H - 5 - 14 | 1 - | 18 | | | | s | tat | e: | | Zip: | | | 1 | ヤ | | | | | | | | | 1 | |
| Project Location | n: | | | | | | F | ho | ne # | : | | | | ١. | | | | | | | | | | | |
| Sampler Name: | Jeff Ornelas | | | | | | F | ax | #: | | | | ١., | , ; | D X | | | | | | | | | 1 | |
| FOR LAB USE ONLY | | | | | MA | (RI | (| F | PRES | ERV. | SAMPL | ING | So | M | F | | | | | | | | į į | | |
| | Tap I.D. (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL | | | | | | | | | | | | Chloride | | ,] | 1 | | | | | ě | | | | |
| | | 00 | SS | ATE | 띮 | | | 1 | | | | | 5 | | × | | | | 1 | | | | | | |
| Lab I.D. | Sample I.D. | R | N N | MQ | VAT | | | į | SE | 3 | | | 1~ | 1 | U | | | | | | | | | | |
| | | SAB. | ΙĘ | NS. | ETE . | | DGE | 1 | VBA | E E | | | -5 | | F | | | | | | | | | | |
| H802015 | | (G)RAB | # CONTAINERS | GRC | WAS' SOIL | 등 | SLUDGE | OI HEK: | ACID/BASE: | OTHER: | DATE | TIME | 10 | 1 | 8 | | | | | | | | | | |
| I. | SP1 @ Surface | B | 1 | | ~ | | | T | | - | 7-18-18 | 11:45 am | 1 | | 1 | | | | | | | | | | |
| 2 | SP1 @ 1' | GG | 1 | | _ | | | I | | / | 7-18-18 | 12:01 pm | 1 | | | | | | | | | | | | |
| 3 | SP1 @ 2' | G | I | | / | | | 1 | | 1 | 7-18-18 | 1:11 pm | 1 | | | | | | | | | | | | |
| 3 | SP1 @ 3' | G | 1 | | 1 | | | T | | / | 7-18-18 | 1:22 pm | 1 | | | | | | | | | | | | |
| 5 | SP2 @ Surface | 6 | I | | / | | | 1 | | | 7-18-18 | 1:30 pm | 1 | | | | | | | | | | | | |
| وا | SP2 @ 1' | G | 1 | | 1 | | | | V | - | 7-18-18 | 1:40 pm | 1 | Ì | | | | | | | | | | | |
| 7 | SP2 @ 2' | G | i | | 1 | | | | | / | 7-18-18 | 1:50 pm | 1 | | | | | | | | | | | | |
| 8 | SP2 @ 3' | G | 1 | | 1 | | | 1 | | | 7-18-18 | 1:59 pm | 1 | | | | | | | | | | | | |
| 9 | SP3 @ Surface | G | i | | V | | | | L | | 7-18-18 | 2:01 pm | 1 | | | | | | | | | | | | |
| 110 | SP3 @ 1' | G | 1 | | _ | | | | ار | 1 | 7-18-18 | 2:15 pm | 1 | | | | | | | | | | | | |
| analyses. All claims includi | nd Damages. Cardinal's liability and client's exclusive remedy for a ng those for negligence and any other cause whatsoever shall be | deemed | d waiv | ed unle | ess made in | writin | ng and re | ceive | ed by C | ardinal v | within 30 days aft | er completion of t | he applica | able | | | | | | | | | | | |
| | ardinal be liable for incidental or consequental damages, including ing out of or related to the performance of services hereunder by C | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished B | y: Date: | Re | cei | ved | Ву:/ | | | | | | | Phone Re | | | Yes | | | Add'l | | | | | | | |
| 18:451 | Time: | | | | | | | | | | | Fax Resu REMARK | | | Yes | | 10 | Add'l | rax # | ¥: | | | | | |
| Relinquished By: Date: 4/18 Time: | | | | | | | | | - 1 | , | | - | | | | | | | | | | | | | |
| Time: :40 Munk | | | | | | | | | 1/1 | 4/ | 100 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | -0.00 | - | | | Cool | Inta | ct | 11 | C | | (ED BY: | | | | | | | | | | | | | | |
| Sampler - UPS | pler - UPS - Bus - Other: | | | | | | Yes No | • | 7 | 0. | 475 | | | | | | | | | | | | | | |
| | Conding connect connect verbal changes. Places for written changes | | | | | | | | | | | | | _ | | | | | | | | | | | |

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

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

| ompany Name: BBC International, Inc. | | | | | | | | | | LL TO | | | | | | | ANA | LYS | IS F | REQ | UES | ST. | | | |
|--|---------|--------|----------|---------------------|----------------------|-------------|--------------------|-------------------|---------|--|---|--|---|---|--------------------|---|--------------------|---|------------------------------|-----------------------------|-----------------------------|-----------------------------|--|---|--------------------------------|
| | | | | | | Р. | 0. # | t: | | | | | | | | I | | | T | T | | | | | |
| | | | | | | Co | omp | any | : | 20 | G | | | ~ | | | | | | | | | | | |
| Zip |): | 382 | 41 | | | At | tn: | | | | 1200 | | | 100 | | | | | | ı | | | | | |
| 5-39 | 7-0 | 397 | 7 | | | Ac | idre | ess: | | | | | | ence | | | | | | | | | | | |
| er: | | | | | | Ci | ty: | | | | | | | 14 | | | | | | | | | | | |
| 4- | 18 | | | | | St | ate: | | | Zip: | | | | 9 | | | | | | | | | | | |
| | | | | | | Ph | one | e #: | | | | | | マ | | | | | | | | | | | |
| | | | | | | Fa | x #: | | | | | | -0 | 0 | | | | | | | | | | | |
| Τ. | | | V | IATE | RIX | | PR | EŞE | RV. | SAMPI | LING | | 0 | | | | | | | | | | | | |
| MP | ١,, | ä | 2000 | | | | | | | | | | | \sim | | | | | | | | | | 9 | |
| (C) (S) TERS | | | | | | | | | | | | | 2 | | | | | 1 | | 1 | | | | | |
| Lab I.D. Sample I.D. | | | | | | | | | .: | | | | 1/0 | 1 | | | | 1 | | 1 | | | | | |
| MACOUNT SOUNT SOUN | | | | | | | | | 里 | 2-5-00-00-0 | | | 0 | 8 | | | | | | 1 | | | | | |
| | # | S. | š | | 2 2 | 5 | AC | <u></u> | 0 | | _ | | _ | | | _ | - | _ | - | _ | 4 | | | | |
| | H | - | | | - | - | ┝ | / | | | 100 | THE MARKET | 1 | | | 1- | | - | - | - | _ | | | | |
| | H | H | \dashv | | + | - | 1 | - | | THE LEADER MAJES | _ | | V | | | + | - | - | +- | - | | | | | |
| | H | H | | | - | | - | / | _ | 5 700 | - | 200 TOO/AL | 4 | V | | - | - | - | - | + | - | | | | |
| 96 | t | | 7 | _ | - | 1 | H | 1 | | 3-10-2 | | | 1 | | | 1- | | | - | + | - | | | | |
| | tì | | | _ | | - | r | / | | | _ | | 1 | | | 1 | + | 1 | + | 1 | | | | * | |
| | i | Г | | ~ | | | ı | / | | 7-19-18 | | | 1 | | | | | | | | | | | | |
| G | 1 | | | 1 | | | | - | | 7-19-18 | 10 | :10 am | 1 | | | | 1 | | | 1 | \dashv | | | | |
| G | 1 | | | _ | | | | _ | 2 | 7-19-18 | 10 | :22 am | 1 | | | | | | | | | | | | |
| | 1 | | | / | | | | 1 | / | 7-19-18 | | | 1 | | | | | | | | | | | | |
| e deeme | d waiv | ed uni | ess ma | de in w | riting an | d rece | ived b | y Caro | tinal w | vithin 30 days at | fter com | npletion of the | e applicab | le | | | | | | | | | | | |
| Cardina | l, rega | rdless | of whel | s intern her suc | uptions, th claim | loss c | of use, sed upo | or loss on any | of the | rofits incurred by a above stated r | y client, reasons | , its subsidiar s or otherwise |). | | | | | | | | | | | | |
| Re | ecei | ved | By: | / | | | | | | | | | | | | | | | | | | | | | |
| VETT VINCOS Time: | | | | | | | | | | | | | | | | | 1, 33, 3 | | • | | | | | | |
| Relinquished By: Date: 7-2-4-18 Received By: | | | | | | | | | 1 | . / | | | | | | | | | | | | | | | |
| | | 1/ | 11 | 101 | 10 | a Mellattol | | | | | | * | | | | | | | | | | | | | |
| 1 | - | u | Sami | ole C | ondit | ion | C | CHI | ECK | ED BY: | - | | | | | | | | | | | | | | |
| 1 - | - | | Cool | In | tact | | + | | | | _ | | | | | | | | | | | | | | |
| | | | | | | | | | - 1 | 475 | | | | | | | | | | | | | | | |
| ress: P.O. Box 805 Hobbs State: NM Zip: 88241 ress: P.O. Box 805 Hobbs State: NM Zip: 88241 rest: 575-397-0397 rest: Project Owner: rest Name: Copperhead Fee A #3H ~ 5 - 14 - 18 rect Location: pler Name: Jeff Ornelas Las USE ONLY Ab I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. Span @ 2' I.Z. SP3 @ 3' I.Z. SP4 @ Surface I.J. SP4 @ 1' I.J. SP4 @ 1' I.J. SP4 @ 1' I.J. SP4 @ 3' I.J. SP5 @ Surface I.J. SP5 @ Surface I.J. SP5 @ 3' ROTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in an overwhat fall cardinal be falled by incompanies of whether our successors arising out of or reliated to the performance of services hereunder by Cardinal, regardless of whether our guilshed By: Date: The Company of the Course whatsoever shall be deemed wardless services inter or successors arising out of or reliated to the performance of services hereunder by Cardinal, regardless of whether our guilshed By: Date: The Course of | | | | | | | | | | | Zip: 88241 Attn: 75-397-0397 Address: City: Phone #: Fax #: MATRIX PRESERV. SAMPI WALL WALL WALL WALL WALL WALL WALL WAL | Zip: 88241 Attn: 75-397-0397 Address: City: Phone #: Fax #: MATRIX PRESERV. SAMPLING WAJLLANDON BY AND BY BY AND | P.O. #: Company: C, C G Attn: Sign: 88241 Attn: State: Zip: Phone #: Fax #: MATRIX PRESERV. SAMPLING T-18-18 2:30 pm 7-18-18 2:30 pm 7-18-18 2:40 pm 7-19-18 9:51 am G I | P.O. #: Company: C. C G Attn: Attn: Address: City: Address: City: Phone #: Fax #: MATRIX PRESERV SAMPLING WATRIX PRESERV SAMPLING AND BY | P.O. #: Company: | P.O. #: Company: C. C. G. Zip: 88241 Attn: 5-397-0397 Address: Or Phone #: Fax #: | P.O. #: Company: | P.O.#: Company: C. C. C. Zip: 88241 | P.O.#: Company: C. G. G. | P.O. #: Company: C. C C | P.O. #: Company: C. C. G. | P.O. #: Company: C. C. G. | P.O. #: Company: C. C. C. Zip: 88241 | P.O. #: Company: C. C. G. Zip: 88241 Attn: S-397-0397 Address: Ier: City: If - 18 | P.O.#: Company: C. C. C. |

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

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476 Company Name: BBC International, Inc. BILL TO ANALYSIS REQUEST Project Manager: Cliff Brunson P.O. #: Address: P.O. Box 805 COG Company: City: Hobbs State: NM Zip: 88241 Attn: Phone #: 575-397-6388 Fax #: 575-397-0397 Address: Project #: **Project Owner:** City: Project Name: Copperhead Fee A #3H 5-14-18 State: Zip: マ Project Location: Phone #: 0 Sampler Name: Jeff Ornelas Fax #: FOR LAB USE ONLY MATRIX PRESERV. SAMPLING (G)RAB OR (C)OMP hloria # CONTAINERS GROUNDWATER WASTEWATER SLUDGE OTHER: ACID/BASE: Lab I.D. Sample I.D. ICE / COOL SOIL 8 H802015 DATE TIME G SP6 @ Surface 7-19-18 11:11 am SP6 @ 1' G 7-19-18 11:19 am 23 SP6 @ 2' 9 7-19-18 11:32 am ~ SP6 @ 3' G 7-19-18 11:49 am SP6 @ 4' 7-19-18 G 12:38 pm SP6 @ 5' 7-19-18 1:11 pm SP7 @ Surface 7-19-18 1:20 pm 8 26 SP7 @ 1' 7-19-18 1:33 pm SP7 @ 3' G 7-19-18 1:59 pm SP7 @ 4' 7-19-18 2:15 pm 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 the client for the 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 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

| Relinquished By: | Date: | Received By: | ad upon any of the above stated re | Phone Result: | ☐ Yes | □ No | Add'l Phone #: |
|------------------------------|-----------|------------------|------------------------------------|---------------|-------|------|----------------|
| 1/00/1/2 | 4120118 | XIII | | Fax Result: | ☐ Yes | □ No | Add'I Fax #: |
| VETT UNULAS | Time: | Off | | REMARKS: | | | |
| Relinquished By: | Date: | Received By: | 001 | | | | |
| | Time: 140 | Samara de | Water | | | | |
| Delivered By: (Circle One) | 582 | Sample Condition | CHECKED BY: | N . | | | |
| | 3.0 | Cool Intact | (Initials) | | | | |
| Sampler - UPS - Bus - Other: | rected | -5.854 No No | TO. #25 | | | | |

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

ARDINAL LABORATORIES

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

| | : BBC International, Inc. | | | | B | LL TO | | | | | | ANA | LYSI | S RE | QUE | ST | | | | | | |
|---|---|----------------------------|-----------------|-------------|---------------------------------|-----------------------|-------------------|-------------------|---------------------|---|--|---------------------|----------|------|-----|-------|--------|----|---|--|------|--|
| Project Manage | r: Cliff Brunson | | | | | | P.C | O. #. | | | | - | | | | | | | | | | |
| Address: P.O. | Box 805 | | | | | | Со | mpa | any: | | | | - | | | | | | | | | |
| city: Hobbs | State: NM | Zip | : 8 | 824 | 1 | | Att | n: | | | | | 160 | | | | | | | | | |
| Phone #: 575- | 397-6388 Fax #: 575 | -397 | 7-0 | 397 | | | Ad | dre | ss: | | | | no | | | | | | | | | |
| Project #: | Project Owner | r: | | | | | Cit | y: | | | | | entended | | | | | | | | | |
| Project Name: (| Copperhead Fee A #3H 5 - | 14 | -/ | 8 | | | Sta | ate: | | Zip: | | | 2 | | | | | | | | | |
| Project Location | 1: | | | | | | Ph | one | #: | | | | | | | | | | | | | |
| Sampler Name: | Jeff Ornelas | | | | | | Fa | x #: | | | | | NO | | | | | | | | | |
| FOR LAB USE ONLY | | | | | MATR | Х | | PRE | SERV | SAMPL | ING | 9 | 1 | | | | | | | | | |
| Lab I.D. | SLUDGE | OTHER: | ACID/BASE: | ICE / COOL | | | Chlorid | BTEX ; | • | | | | | | | | | | | | | |
| 1802015 | OD7 @ 71 | (G)RAB OR (C)OMP. | - # CONTAINERS | GROUNDWATER | SOIL | SL | 0 | AC | | | TIME | | | | | | | | | | | |
| 32 | SP7 @ 7' SP7 @ 8' | G | 1 | H | 1 | - | _ | | 1 | 7-19-18 | 2:58 pm | 1 | | | | | | | | | | |
| - | | G | 1 | \vdash | | | | | • | 7-19-18 | 3:11 pm | √ | , | | | | | | | | | |
| 77 | SP8 @ Surface SP8 @ 1' | B | Ļ | \vdash | ~ | | - | | 1 | 7-19-18 | 3:12 pm | √ | ✓ | | | | | | | | | |
| 列 35 | SP8 @ 5' | G | 1 | | 2 | - | - | - | | 7-19-18 7-20-18 | 3:15 pm 9:27 am | 1 | | | | 181 | - | | | | | |
| 36 | SP8 @ 9' | G | + | | - | | | | ~ | | 10:27 am | V | | | | | | | | | | |
| 27 1 | SP8 @ 13' | G | 1 | | | | - | - | - | 7-20-18 | 11:29 am | 1 | | | - | | | | - | | | |
| 34 | SP8 @ 16' | 9 | 1 | | ~ | | | | | St. Strate Miles | 12:12 pm | 1 | | | | | - | | | | | |
| 39 | SP9 @ Surface | G | İ | | - | | | | ~ | 7-20-18 | 12:40 pm | 1 | | | _ | | | | | | | |
| 40 | SP9 @ 1' | 6 | 1 | | - | | | | - | 7-20-18 | 12:41 pm | 1 | | | | | | | | | | |
| analyses. All claims includir service. In no event shall C | nd Damages. Cardinal's liability and client's exclusive remedy for a g those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, including ng out of or related to the performance of services hereunder by C | deemed without | waive limita | d unles | s made in wri siness interru | ling and ptions, k | recei oss of | ved by fuse, o | Cardinal or loss of | within 30 days aft profits incurred by | er completion of th client, its subsidiar | e applicat ries, | ble | | | | | | | | | |
| Relinquished By | Date: | | | ed E | | 1 | | | | | Phone Res | sult: | ☐ Ye | | No | | Phone | #: | | | | |
| VEFF | LEFE DINGS Time: | | | | | | | | | | Fax Result | | □ Ye | s 🗆 | No | Add'l | Fax #: | | | | | |
| Relinquished By | 7-2418 Time: 2:40 Dunard | | | | | | | | | | | | | | | | | | | | | |
| Delivered By: Sampler - UPS | - Bus - Other: Parrected - | ample Co ool Int Yes | Yes | | y | | (ED BY: tials) | | | | | | | | | | | | | | | |
| | Correlated -5.85¢ No No 7 7775 | | | | | | | | | | | | | | | | | | | | | |

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

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

| Company Name | ompany Name: BBC International, Inc. oject Manager: Cliff Brunson | | | | | | | | | | LL TO | | i | | | | AN | ALY | /SIS | RE | QUE | ST | | |
|---|---|------------|----------|---------|-----------|----------|----------|-----------|------------|-----------|--------------------|-------------------------|------------|------|------------|------|-----|------------------|-------|----|-----|----|--|--|
| Project Manage | r: Cliff Brunson | | | | | | F | .0. | #: | | | | | | | | ſ | | | | | | | |
| Address: P.O | . Box 805 | | | | | | c | om | pan | y: | | | | | | | | | | | | | | |
| city: Hobbs | State: NM | Zip | : 8 | 8824 | 11 | | Δ | ttn: | | | | | | | | | | | | | | | | |
| Phone #: 575- | 397-6388 Fax #: 575 | -39 | 7-0 | 397 | | | A | ddr | ess | : | | | | | | | | | | | | | | |
| Project #: | Project Owne | r: | | | | | c | ity: | | | | | | | | | | | | | | | | |
| Project Name: | Copperhead Fee A #3H 5-/5 | -1 | 8 | | | | s | tate | : | | Zip: | | | | | | | | | | | | | |
| Project Location | n: | | | | | | P | hor | ie# | : | | | | | | | | | | | | | | |
| Sampler Name: | Jeff Ornelas | | | | | | F | ax # | ‡ : | | | |], | | | | | | | | | | | |
| FOR LAB USE ONLY | | ١. | Г | | MA | TRIX | | PI | RES | ERV. | SAMPI | ING | 3 | | | | | | | | | | | |
| | | N N | | 兴 | 22 | | | | | | | | Chlorid | | | | | | | | | | | |
| | N (C) | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Lab I.D. | (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL | | | | | | | | | | | | 2 | | | | | | | | | | | |
| וופ החחוד | S- |)RAI | l S | Sou | WAST | | SLUDGE | ACID/RASE | ICE / COOL | OTHER: | 43540 <u>5-</u> | 14_35******** | I٧ | | | | | | | | | | | |
| H802015 | 000 @ 01 | 9 | # | P. | 8 8 | ol. | SL | 5 A | | | DATE | TIME | | - | - | - | _ | - | | | | | | |
| 41 | SP9 @ 2' | 6 | 11 | - | V | | + | 4 | | 1 | 7-20-18 | 12:47 pm | | - | _ | - | | + | _ | | | | | |
| 16 | SP9 @ 3' | G | 1 | | ~ | | _ | - | V | - | 7-20-18 | 12:55 pm | - | - | _ | _ | | _ | | | | | | |
| 43 | SP9 @ 4' | G | 1 | | V | | | 1 | | 1 | 7-20-18 | 1:11 pm | 1 | _ | | | _ | \perp | _ | | | | | |
| 44 | North Surface | G | 1 | | ~ | 1_ | _ | 4 | بع | _ | 7-20-18 | 1:15 pm | ✓ | 1 | _ | | | _ | _ | | | | | |
| 43 | East Surface | G | 1 | | ~ | | | _ | V | 1 | 7-20-18 | 1:20 pm | 1 | 1 | | | | | | | | | | |
| 46 | West Surface | G | 1 | | ~ | | | 4 | L | 1 | 7-20-18 | THE COLUMN ASSESSMENT | ✓ | 1 | _ | | | | | | | | | |
| 47 | South Surface | G | 1 | | V | | | 4 | ν | | 7-20-18 | 1:30 pm | ✓ | 1 | | | | _ | _ | | | | | |
| | | | | | | | | _ | _ | | | | | - | | | | _ | _ | | | | | |
| | | | _ | | | | | _ | | | | | | | | | | _ | | | | | | |
| BI FASE NOTE: Liability a | ad Damagas, Cardinal's lightlity and client's evaluation samedy for | l and alai | m orio | | ther hase | d in an | almat as | 100 0 | anti ba | Manifest | la the services of | and but the all and for | | | | | | | | | | | | |
| analyses, All claims includ | nd Damages. Cardinal's liability and client's exclusive remedy for ing those for negligence and any other cause whatsoever shall be | deeme | d waiv | ed unle | ss made i | n writir | g and re | ceived | by Ca | ardinal (| within 30 days at | ter completion of t | the applic | able | | | | | | | | | | |
| affiliates or successors aris | Cardinal be liable for incidental or consequental damages, includin ing out of or related to the performance of services hereunder by | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished B | y: Date: 018 | Re | ecei | ved | By: | 1 | | | | | | Phone Re Fax Resu | | | Yes Yes | □ No | | l'I Ph I'I Fa | one # | f: | | | | |
| 1588 | 1) Challes Time: | | | | 10 | 5 | | | | | | REMARK | | | 165 | L NO | Auc | пга | X #. | | | | | |
| Relinguished B | Relinquished By: Date: Received By: | | | | | | | | | | | - | | | | | | | | | | | | |
| 7-24-18 | | | | | | | | | | | 111 | | | | | | | | | | | | | |
| Delivered By: (Circle One) Delivered By: (Circle One) Sample Condition CHECKED BY: | | | | | | | | | | | | | | | | | | | | | | | | |
| Delivered By | : (Circle One) -5.82 | | | | Cool | Inta | ct | n | CI | | (ED BY: | 1 | | | | | | | | | | | | |
| Sampler - UPS | plan LIBS Pus Other: | | | | | | | | | 0 | #5 | T | | | | | | | | | | | | |
| | - Se no No | | | | | | | | | | , , , | | - | _ | | | | | _ | | | | | |

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

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

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

Form C-141

Revised April 3, 2017

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

Santa Fe, NM 87505

Release Notification and Corrective Action

| | | | | | | OPERA | ГOR | | Initia | l Report | | Final Re | eport | |
|---|--------------|-----------------|--|-----------------------|----------|-----------------|---|----------|-------------------------|------------|----------|-------------|-------|--|
| | | | | OGRID #2179: | 55) | Contact: | | ert Mc | | | | | | |
| | | linois Avenue | | nd, TX 79701 | | Telephone N | | 683-74 | 43 | | | | | |
| Facility Nam | e: Coppe | rhead Fee A | #003H | | | Facility Typ | e: Flowline | | | | | | | |
| Surface Own | ner: Priv | vate | | Mineral O | wner: | Private | | | API No. | 30-015-4 | 2327 | | | |
| | | | | LOCA | TIO | N OF REI | LEASE | | | | | | | |
| Unit Letter | Section | Township | Range | Feet from the | | /South Line | Feet from the | East/V | West Line | | Coun | ty | | |
| Е | 31 | 26S | 29E | 415 | | South | 990 | 1 | West | | Edd | y | | |
| | | | Lat | titude 32.00123 | 321 Lo | ongitude -10 | 4.0292206 NAI | D83 | | | | | | |
| | | | | NAT | URE | OF REL | | | T = - | | | | | |
| Type of Relea | | d Water | | | | | Release 122 bbl. | | Volume R | | | | | |
| Source of Rele | ease: | Flowline I | eak | | | | Iour of Occurrenc 118 10:40am | ee | Date and I May 14, 2 | | - | | | |
| Was Immedia | te Notice C | | Jour | | | If YES, To | | | 11149 1 1, 2 | 010 10.100 | | | | |
| | | \boxtimes | Yes | No Not Re | quired | | cher – NMOCD | | | | | | | |
| By Whom? Sh | aldon Hita | shoools | | | | | eaver - NMOCD | 0 2.00 | ••• | | | | | |
| Was a Waterco | | | | | | | Iour May 14, 2018 Slume Impacting t | | | | | | | |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 04150 11040 | | Yes 🛚 | No | | 11 125, 10 | rume impuering t | | oreo urse. | | | | | |
| If a Watercour | rse was Imp | pacted, Describ | e Fully.* | | | | | | | | | | | |
| | • | | - | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Describe Caus | se of Proble | em and Remed | ial Action | Taken.* | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| The release wa | as caused b | ov the flowline | blowing | out at the transition | n. The | transition is b | eing repaired or r | eplaced | l . | | | | | |
| | | | | | | | | · F | | | | | | |
| Describe Area | Affected a | and Cleanup A | ction Take | en.* | | | | | | | | | | |
| The release wa | as in the pa | sture. A vacuu | m truck w | as dispatched to | remove | e all freestand | ing fluids. Concho | o will h | ave the spill | area samp | led to d | elineate ai | ıny | |
| possible impac | ct from the | release and we | e will pres | ent a remediation | work | plan to the NN | MOCD for approv | al prior | to any signi | ficant rem | ediatior | activities | | |
| | | | | | | | knowledge and u | | | | | | | |
| | | | | | | | nd perform correct arked as "Final R | | | | | | | |
| | | | | | | | on that pose a thre | | | | | | th | |
| | | | | ance of a C-141 i | report c | loes not reliev | e the operator of | respons | ibility for co | mpliance v | vith an | y other | | |
| federal, state, | or local lav | vs and/or regul | ations. | | | | OH COM | CEDI | ATION | DIMICIO |) N I | | | |
| | | | | | | | OIL CONS | SEK V | AHON | DIVISIO | <u> </u> | | | |
| Signature: | | Dollan Or | reant | | | | | | | | | | | |
| Printed Name: | - | DeAnn Grant | 7. | | | Approved by | Environmental S | pecialis | t: | | | | | |
| Timed Name. | • | DÇAIII GIAIII | <u>. </u> | | | | | | | | | | | |
| Title: | | HSE Admini | strative A | ssistant | | Approval Dat | te: | | Expiration I | Date: | | | | |
| E-mail Addres | SS: | agrant@cond | cho.com | | | Conditions of | f Approval: | | | A 4411 | | | | |
| | | | | 422 252 451 | , | | ** | | | Attached | . Ц | | | |
| Date: May 15, | , ZUI8 | | Pho | one: 432-253-451 | . 3 | | | | | | | | | |

^{*} Attach Additional Sheets If Necessary