

AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pGRL1218438527

1RP - 2834

XTO ENERGY, INC





June 07, 2012

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: XT0-12-001

HOBBS OCD

JUN 1 8 2012 .

RECEIVED

Enclosed are the results of analyses for samples received by the laboratory on 06/04/12 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 accredited 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. Keine

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

2034



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

06/04/2012

Sampling Date:

05/31/2012

Reported:

06/07/2012

Sampling Type:

Soil

Project Name:

XT0-12-001

Sampling Condition:

Cool & Intact

Project Number:

BRIDGES STATE 120

Sample Received By:

Jodi Henson

Project Location:

BUCKEYE, NM

Sample ID: BH - 1 5' BGS (H201240-01) BTEX 8021B

| Qualifier |
|-----------|
| |
| |
| |
| |
| |

Surrogate: 4-Bromofluorobenzene (PIL

102 %

89.4-126

| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: HM | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Chloride | 528 | 16.0 | 06/04/2012 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| GRO C6-C10 | <10.0 | 10.0 | 06/04/2012 | ND | 183 | 91.3 | 200 | 1.58 | |
| DRO >C10-C28 | <10.0 | 10.0 | 06/04/2012 | ND | 187 | 93.7 | 200 | 3.90 | |

Surrogate: 1-Chlorooctane

86.7%

65.2-140

Surrogate: 1-Chlorooctadecane

102 %

63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any cleim 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

Celey D. Keine



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

06/04/2012

Sampling Date:

05/31/2012

Reported:

06/07/2012

Sampling Type:

Soil

Project Name:

XT0-12-001

Sampling Condition:

Cool & Intact

Project Number:

BRIDGES STATE 120

Sample Received By:

Jodi Henson

Project Location:

BUCKEYE, NM

90.2%

63.6-154

Sample ID: BH - 1 10' BGS (H201240-02)

| BTEX 8021B | mg/ | kg | Analyze | d By: ZZZ | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|------|----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Benzene* | < 0.050 | 0.050 | 06/04/2012 | ND | 2.24 | 112 | 2.00 | 5.15 | |
| Toluene* | < 0.050 | 0.050 | 06/04/2012 | ND | 2.05 | 102 | 2.00 | 5.34 | |
| Ethylbenzene* | < 0.050 | 0.050 | 06/04/2012 | ND | 1.95 | 97.5 | 2.00 | 4.62 | |
| Total Xylenes* | <0.150 | 0.150 | 06/04/2012 | ND | 5.94 | 99.0 | 6.00 | 4.01 | |
| Surrogate: 4-Bromofluorobenzene (PIE | 100 % | 6 89.4-12 | 6 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: HM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Chloride | 400 | 16.0 | 06/04/2012 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| GRO C6-C10 | <10.0 | 10.0 | 06/04/2012 | ND | 183 | 91.3 | 200 | 1.58 | |
| DRO >C10-C28 | <10.0 | 10.0 | 06/04/2012 | ND | 187 | 93.7 | 200 | 3.90 | |
| Surrogate: 1-Chlorooctane | 79.65 | 65.2-14 | 0 | | | | | | |

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=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 whatsonew shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal he 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 claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This

Celeg & Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

06/04/2012

Sampling Date:

05/31/2012

Reported:

RTEY SOCIE

06/07/2012

Sampling Type:

Soil

Project Name:

XT0-12-001

Sampling Condition:

Cool & Intact

Project Number:

BRIDGES STATE 120

Sample Received By:

Jodi Henson

Project Location:

BUCKEYE, NM

Sample ID: BH - 1 15' BGS (H201240-03)

| DIEX 0021B | mg/i | kg | Anaiyze | d By: ZZZ | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | < 0.050 | 0.050 | 06/04/2012 | ND | 2.24 | 112 | 2.00 | 5.15 | |
| Toluene* | < 0.050 | 0.050 | 06/04/2012 | ND | 2.05 | 102 | 2.00 | 5.34 | |
| Ethylbenzene* | < 0.050 | 0.050 | 06/04/2012 | ND | 1.95 | 97.5 | 2.00 | 4.62 | |
| Total Xylenes* | < 0.150 | 0.150 | 06/04/2012 | ND | 5.94 | 99.0 | 6.00 | 4.01 | |
| Surrogate: 4-Bromofluorobenzene (PIL | 102 % | 89.4-12 | 6 | | | | | | |
| Chloride, SM4500CI-B | mg/l | kg | Analyze | d By: HM | | | | | |

Analyzed By: 777

| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: HM | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 384 | 16.0 | 06/04/2012 | ND | 416 | 104 | 400 | 0.00 | |
| 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 | 06/04/2012 | ND | 183 | 91.3 | 200 | 1.58 | |
| DRO >C10-C28 | <10.0 | 10.0 | 06/04/2012 | ND | 187 | 93.7 | 200 | 3.90 | |

Surrogate: 1-Chlorooctane 84.8 % 65.2-140 95.3 % 63.6-154 Surrogate: 1-Chlorooctadecane

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardina's fability 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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

06/04/2012

Sampling Date:

05/31/2012

Reported:

BTEX 8021B

06/07/2012

Sampling Type:

Soil

Project Name:

XT0-12-001

Sampling Condition:

Cool & Intact

Project Number:

BRIDGES STATE 120

Sample Received By:

Jodi Henson

Project Location:

BUCKEYE, NM

mg/kg

84.3 %

96.1%

65.2-140

63.6-154

Sample ID: BH - 1 20' BGS (H201240-04)

| | | - | | | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|------|----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Benzene* | < 0.050 | 0.050 | 06/04/2012 | ND | 2.24 | 112 | 2.00 | 5.15 | |
| Toluene* | < 0.050 | 0.050 | 06/04/2012 | ND | 2.05 | 102 | 2.00 | 5.34 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/04/2012 | ND | 1.95 | 97.5 | 2.00 | 4.62 | |
| Total Xylenes* | <0.150 | 0.150 | 06/04/2012 | ND | 5.94 | 99.0 | 6.00 | 4.01 | |
| Surrogate: 4-Bromofluorobenzene (PIE | 99.6 | % 89.4-12 | 6 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: HM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Chloride | 96.0 | 16.0 | 06/04/2012 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| GRO C6-C10 | <10.0 | 10.0 | 06/04/2012 | ND | 183 | 91.3 | 200 | 1.58 | |
| | | | | | 187 | 93.7 | 200 | 3.90 | |

Analyzed By: ZZZ

Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardina'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 whatsoner 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, efficiency in successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such client is based upon any of the above stated researces or otherwise. Results related in the performance of the performance of the services hereunder by Cardinal, regardless of whether such

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance

limits.

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: Uability 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 analysis. 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 (20) 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 claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples dentified above. This

Celeg D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

| 88240 | 393-2476 |
|----------|----------|
| Ž | 3 |
| 427 | (505) |
| Hopps | Fax |
| Marland, | 393-2326 |
| East | (505) 3 |
| 5 | (5 |

| Company Name: | " Safety & Environmental Solutions, Inc. | ironme | ntal S | 10 | ıtic | ons | - | nc. | | | | 8 | BILLTO | 新疆 | 23433 (543) | | | | ANA | ANALYSIS | IS R | REGI | REQUEST | _ | | | | |
|----------------------------|--|---------------------|----------------------------|-------------------|--------------|-------------|------------------|----------|----------|----------|------------|----------|-------------------|--|----------------|------------|-------------------------|------|------|-----------|--|------------|-------------|--|---|-----------|---------|---------|
| Project Manager: | r. Bob Allen | | | | | | | | - | P.0 | P.O. #: | | | | - | - | _ | _ | _ | | _ | - | - | - | | | - | Γ |
| Address: | 703 East Clinton | ton | | | | | | | | Cor | Company: | ıγ: | Same | - | | _ | - | | | | | | | | | | | |
| City: | Hobbs | State: | State: NM Zip: | Zip: | | 88240 | 10 | | | Attn: | ,, | | | | | _ | | | | | | | | | | | _ | _ |
| Phone #: | 575-397-0510 | Fax #: | 575-393-4388 | 39 | 3-4 | 38 | 8 | | | Add | Address | in | | | | _ | | | | | | | | - | | | | |
| Project #: X7 | X70-12-601 | Project | Project Owner: XTC Cultagy | X | 2 | J | 3 | 1241 | - | City: | | | | | | | | _ | | | | | | | | | | |
| Project Name: | Project Name: Balogos STATE | Fre | 120 | | | | | | | Sfate: | 6 | | Zip: | | | _ | , | _ | | | | | | | | | | |
| Project Location: | n: Bute tye | 10 | | | | | | | | Pho | Phone #: | 44 | | | | _ | 310 | | | | | | | | | | | |
| Sampler Name: | Ser, Cor | 1 | | 1 | | | | | , | Fax #: | * | | | | | - | 70 | | | | | | _ | | | | | - |
| FOR LAB USE ONLY | | | _ | | | | M | MATRIX | × | | PRE | PRESERV | SAMPLING | LING | | - | 3/1 | | | | | | | | | | | _ |
| Lab I.D. H201240 | Sample I.D. | Ġ. | | (G)RA8 OR (C)OMP. | # CONTAINERS | GROUNDWATER | RETAWETEAW | OIF | SLUDGE | STHER: | ACID/8ASE: | OTHER: | DATE | TIME | | X-214 | CHERL | 1111 | - 1 | - | | | | | | | | |
| 1 | BH-1 5 | 1 1365 | | 5 | _ | | | V | - | - | _ | V | 05/31 | 1445 | 1 | V | V | / | | | | - | - | | Г | | _ | |
| 2 | 10' RH-1 10' | 1.836,5 | 7 | 1.5 | | | | Q | | | | 7 | 15/51 | 1505 | 1 | \Diamond | $\stackrel{>}{\lambda}$ | | | | | | | | | | | |
| W | BH-1 15 | 1 6745 | 3. | Q.T | _ | - | | X | | | - | SX. | 05/31 | 1574 | \triangle | 0 | X | (| | | | _ | | | | | - | |
| 7 | BH-1 20 | 359 | | 12 | - | | 7 | | | | | 4 | 12/30 | 1614 | A | 0 | X | | | | | | | | | | | |
| TEASE HOTE: Labolity at | EASE HOTE: Linkilly and Daineglas. Cercinit's fieldly and clears exclusive remove) for elsy citibility | erit's exclusive re | yeardy for alty | chalm | effeing | ywkoti | 1 2 | o ul pec | oustract | or loct, | that by | - Lullex | to the empurit p | disking swhothere belood in countract or lock, that he trailed to the emmount pilled by the client for the | e e | | | | | pus sur | Condition | nast Inlep | eat will by | the special section of | Terris and Conditions; between will be charged on all accounts more has | sceodiffs | those b | Dien |
| tendes. In no everitations | non-research and a second and a second and a second and a second a | equental damage | es, krohading wi | Though | Berital | lon. bes | sames rainess | Interne | Mong am | ned of t | 10 ty | loss of | within 30 days in | ner compreture or | Lodge May | SIGNOS | | | ne s | Gleys pen | 30 days past due at the rate of 243s per engine Jidin and all costs of collections beloding alternable face | No rate or | Tarn per | MUMUM A | 30 days past due at the rate of 245% per annut in ordinal data of throice | outhur o | ORIE CO | Indice. |

archice. In no everifabili Cordiniil be liable for inchlants or consequental damages, lechidhig without limitation, beakess interruptions, has of use, or loss of peofils incurried by client, its subsidiates, Sampler Relinquish

Sample Condition
Cool Intact
Pres Pres 20 Temp. Date: Time: Sampler - UPS - Bus - Other: Delivered By: (Circle One) ナイン Reliffquished By:

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-24/6.

| Test Trench | Date | Time | Chlorides | TPH |
|-------------|----------|------|-----------|-----|
| #1 Surface | 04-18-12 | 1040 | 324 ppm | NA |
| #1 1' | 04-18-12 | NA | NA | NA |
| #2 Surface | 04-18-12 | 1115 | 1348 ppm | NA |
| #2 1' | 04-18-12 | NA | NA | NA |

HOBBS OCD

JUN 1 8 2012

RECEIVED





















