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E-MAIL: cbrunson@bbcinternational.com

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## COG – SOPAPILLA STATE #1

**APPROVED**

## REMEDIATION PLAN

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COG will excavate the spill area as depicted on the following site diagram. The spill areas around S1 and S2 from the 11-6-15 spill will be excavated to a depth of 6 inches to 1 foot. The area around S3 for the 11-6-15 spill will be excavated to a depth of 1.5 feet. The area around S1 for the 2-3-16 spill will be surface scraped.

A confirmation sample will be taken in the center of the overlapping area of the two spills. The entire site will be backfilled with clean soil.

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



## Sopapilla State #1

### Legend

- (11-6-2015) Sample Points
- (11-6-2015) Release Area
- (2-3-16) Release Area
- (2-3-16) Sample Points

32.328042, -103.550154 S3 (11-6-2015)

32.327743, -103.550159 S2 (11-6-2015)

32.327432, -103.550080 S1 (11-6-2015)

32.32738, -103.549825 S1 (2-3-2016)

N

Google earth

100 ft

CONCHO



# Groundwater Plot

## Concho Sopapilla State #1H Battery

County  
Lea

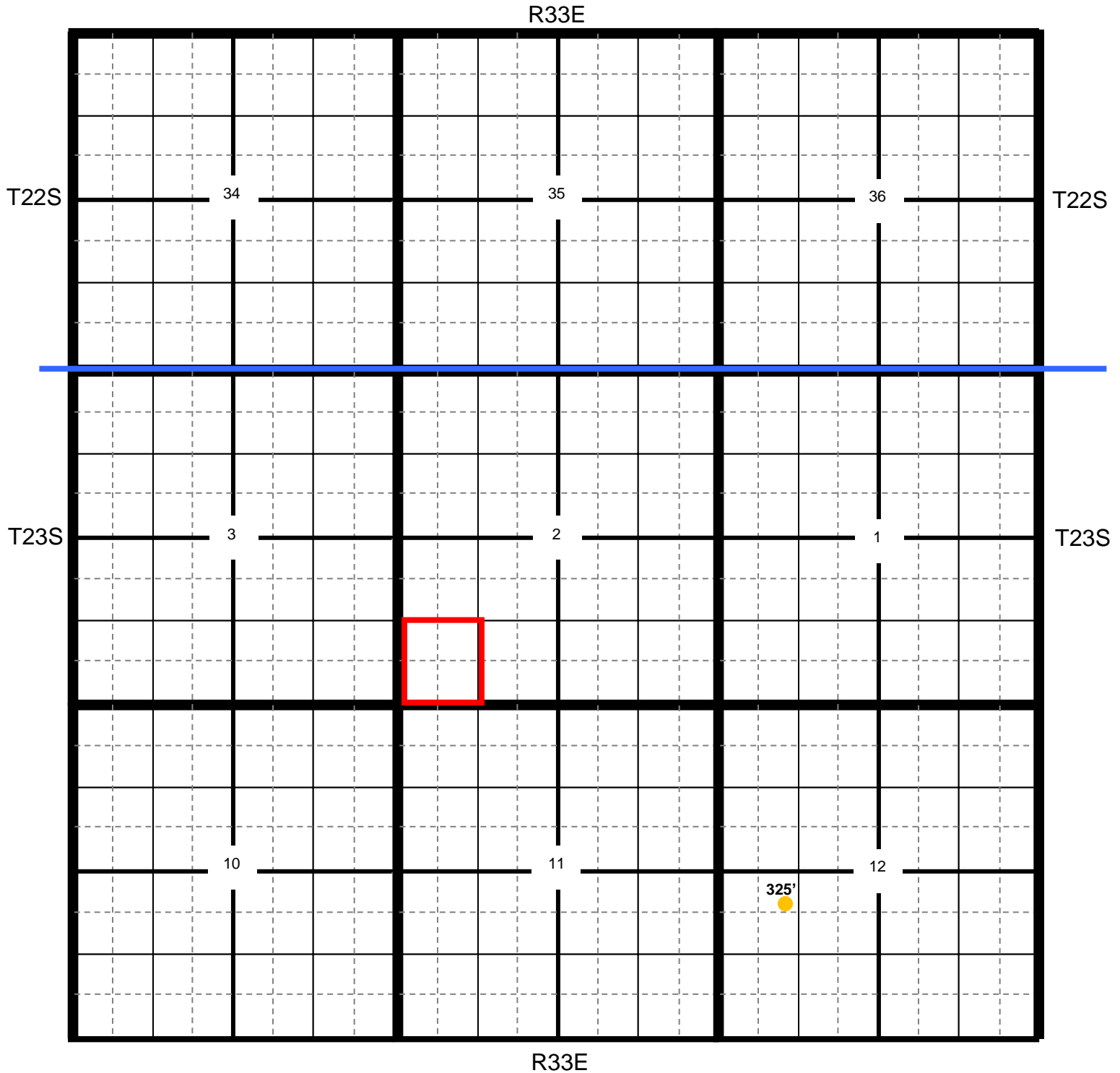
Unit Letter  
M

Section  
2

Township  
23S

Range  
33E

Trend Map 375'



★ Location

● OCD

● USGS

● SEO

● All Databases

## Concho Sopapilla State #1H Battery

**County** Lea      **Unit Letter** M      **Section** 2      **Township** 23S      **Range** 33E

Trend Map 375'

| 1                          |               | 2             |               |
|----------------------------|---------------|---------------|---------------|
| NW/NW<br><b>None found</b> | NE/NW         | NW/NE         | NE/NE         |
| Unit Letter D              | Unit Letter C | Unit Letter B | Unit Letter A |
| SW/NW                      | SE/NW         | SW/NE         | SE/NE         |
| Unit Letter E              | Unit Letter F | Unit Letter G | Unit Letter H |
| NW/SW                      | NE/SW         | NW/SE         | NE/SE         |
| Unit Letter L              | Unit Letter K | Unit Letter J | Unit Letter I |
| SW/SW                      | SE/SW         | SW/SE         | SE/SE         |
| Unit Letter M              | Unit Letter N | Unit Letter O | Unit Letter P |
| 3                          |               | 4             |               |

**Laboratory Analytical Results Summary**  
**Sopapilla State 1H Battery - 11-6-15**

|                      |            | Sample | S1 @<br>Surface | SP1 @ 1' | S1 @ 2' | S1 @ 3' |
|----------------------|------------|--------|-----------------|----------|---------|---------|
| Analyte              | Method     | Date   | 1/18/16         | 1/18/16  | 1/18/16 | 1/18/16 |
|                      |            |        | mg/Kg           | mg/Kg    | mg/Kg   | mg/Kg   |
| <b>Benzene</b>       | BTEX 8021B |        | <b>7.32</b>     | <0.050   | <0.050  | <0.050  |
| <b>Toluene</b>       | BTEX 8021B |        | <b>57.1</b>     | <0.050   | <0.050  | <0.050  |
| <b>Ethylbenzene</b>  | BTEX 8021B |        | <b>21.7</b>     | <0.050   | <0.050  | <0.050  |
| <b>Total Xylenes</b> | BTEX 8021B |        | <b>81.9</b>     | <0.150   | <0.150  | <0.150  |
| <b>Total BTEX</b>    | BTEX 8021B |        | <b>168</b>      | <0.300   | <0.300  | <0.300  |
|                      |            |        |                 |          |         |         |
| <b>GRO</b>           | TPH 8015M  |        | <b>4450</b>     | <10.0    | <10.0   | <10.0   |
| <b>DRO</b>           | TPH 8015M  |        | <b>9440</b>     | <10.0    | <10.0   | <10.0   |

|                      |            | Sample | S2 @<br>Surface | SP2 @ 1' | S2 @ 2' | S2 @ 3' |
|----------------------|------------|--------|-----------------|----------|---------|---------|
| Analyte              | Method     | Date   | 1/18/16         | 1/18/16  | 1/18/16 | 1/18/16 |
|                      |            |        | mg/Kg           | mg/Kg    | mg/Kg   | mg/Kg   |
| <b>Benzene</b>       | BTEX 8021B |        | <0.050          | <0.050   | <0.050  | <0.050  |
| <b>Toluene</b>       | BTEX 8021B |        | <b>0.094</b>    | <0.050   | <0.050  | <0.050  |
| <b>Ethylbenzene</b>  | BTEX 8021B |        | <b>0.183</b>    | <0.050   | <0.050  | <0.050  |
| <b>Total Xylenes</b> | BTEX 8021B |        | <b>0.878</b>    | <0.150   | <0.150  | <0.150  |
| <b>Total BTEX</b>    | BTEX 8021B |        | <b>1.15</b>     | <0.300   | <0.300  | <0.300  |
|                      |            |        |                 |          |         |         |
| <b>GRO</b>           | TPH 8015M  |        | <b>131</b>      | <10.0    | <10.0   | <10.0   |
| <b>DRO</b>           | TPH 8015M  |        | <b>1340</b>     | <10.0    | <10.0   | <10.0   |

|                      |            | Sample | S3 @<br>Surface | SP3 @ 1'    | S3 @ 2' | S3 @ 3'      |
|----------------------|------------|--------|-----------------|-------------|---------|--------------|
| Analyte              | Method     | Date   | 1/18/16         | 1/18/16     | 1/18/16 | 1/18/16      |
|                      |            |        | mg/Kg           | mg/Kg       | mg/Kg   | mg/Kg        |
| <b>Benzene</b>       | BTEX 8021B |        | <1.00           | <b>3.17</b> | <0.050  | <0.050       |
| <b>Toluene</b>       | BTEX 8021B |        | <b>11.9</b>     | <b>38</b>   | <0.050  | <b>0.173</b> |
| <b>Ethylbenzene</b>  | BTEX 8021B |        | <b>10.5</b>     | <b>16.1</b> | <0.050  | <0.050       |
| <b>Total Xylenes</b> | BTEX 8021B |        | <b>40.8</b>     | <b>59.4</b> | <0.150  | <0.150       |
| <b>Total BTEX</b>    | BTEX 8021B |        | <b>63.2</b>     | <b>117</b>  | <0.300  | <0.300       |
|                      |            |        |                 |             |         |              |
| <b>GRO</b>           | TPH 8015M  |        | <b>2020</b>     | <b>3810</b> | <10.0   | <10.0        |
| <b>DRO</b>           | TPH 8015M  |        | <b>5210</b>     | <b>7760</b> | <10.0   | <10.0        |

**Laboratory Analytical Results Summary  
Sopapilla State 1H Battery**

|                      |            | Sample | S1 @<br>Surface | SP1 @ 1'   |
|----------------------|------------|--------|-----------------|------------|
| Analyte              | Method     | Date   | 2/5/16          | 2/5/16     |
|                      |            |        | mg/Kg           | mg/Kg      |
| <b>Benzene</b>       | BTEX 8021B |        | <0.050          | <0.050     |
| <b>Toluene</b>       | BTEX 8021B |        | <0.050          | <0.050     |
| <b>Ethylbenzene</b>  | BTEX 8021B |        | <0.050          | <0.050     |
| <b>Total Xylenes</b> | BTEX 8021B |        | <0.150          | <0.150     |
| <b>Total BTEX</b>    | BTEX 8021B |        | <0.300          | <0.300     |
| <b>Chloride</b>      | SM4500Cl-B |        | <b>464</b>      | <b>576</b> |
| <b>GRO</b>           | TPH 8015M  |        | <10.0           | <10.0      |
| <b>DRO</b>           | TPH 8015M  |        | <b>353</b>      | <10.0      |

January 25, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: SOPAPILLA ST #1 H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/20/16 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Caley D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 COG OPERATING  
 DAKOTA NEEL  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 01/20/2016  
 Reported: 01/25/2016  
 Project Name: SOPAPILLA ST #1 H BATTERY  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 01/18/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S1 - SURFACE (H600133-01)**

| BTEX 8021B            |             | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|-----------------------|-------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte               | Result      | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Benzene*</b>       | <b>7.32</b> | 2.00            | 01/22/2016 | ND              | 1.71 | 85.6       | 2.00          | 6.03 |           |
| <b>Toluene*</b>       | <b>57.1</b> | 2.00            | 01/22/2016 | ND              | 1.83 | 91.6       | 2.00          | 5.89 |           |
| <b>Ethylbenzene*</b>  | <b>21.7</b> | 2.00            | 01/22/2016 | ND              | 1.70 | 85.2       | 2.00          | 5.40 |           |
| <b>Total Xylenes*</b> | <b>81.9</b> | 6.00            | 01/22/2016 | ND              | 5.26 | 87.7       | 6.00          | 5.81 |           |
| <b>Total BTEX</b>     | <b>168</b>  | 12.0            | 01/22/2016 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.6-140

| TPH 8015M              |             | mg/kg           |            | Analyzed By: MS |     |            |               |      |           | S-06 |
|------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|------|
| Analyte                | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |      |
| <b>GRO C6-C10</b>      | <b>4450</b> | 50.0            | 01/21/2016 | ND              | 186 | 92.9       | 200           | 7.25 |           |      |
| <b>DRO &gt;C10-C28</b> | <b>9440</b> | 50.0            | 01/21/2016 | ND              | 189 | 94.3       | 200           | 4.86 |           |      |

Surrogate: 1-Chlorooctane 179 % 35-147

Surrogate: 1-Chlorooctadecane 177 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONEReceived: 01/20/2016  
Reported: 01/25/2016  
Project Name: SOPAPILLA ST #1 H BATTERY  
Project Number: NONE GIVEN  
Project Location: NOT GIVENSampling Date: 01/18/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson**Sample ID: S1 - 1' (H600133-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/22/2016 | ND              | 1.71 | 85.6       | 2.00          | 6.03 |           |
| Toluene*       | <0.050 | 0.050           | 01/22/2016 | ND              | 1.83 | 91.6       | 2.00          | 5.89 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/22/2016 | ND              | 1.70 | 85.2       | 2.00          | 5.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/22/2016 | ND              | 5.26 | 87.7       | 6.00          | 5.81 |           |
| Total BTEX     | <0.300 | 0.300           | 01/22/2016 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 73.6-140

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 01/21/2016 | ND              | 186 | 92.9       | 200           | 7.25 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 01/21/2016 | ND              | 189 | 94.3       | 200           | 4.86 |           |

Surrogate: 1-Chlorooctane 85.1 % 35-147

Surrogate: 1-Chlorooctadecane 84.6 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 01/20/2016  
Reported: 01/25/2016  
Project Name: SOPAPILLA ST #1 H BATTERY  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 01/18/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S1 - 2' (H600133-03)**

| BTEX 8021B     |        | mg/kg           | Analyzed By: MS |              |      |            |               |      |           |
|----------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/22/2016      | ND           | 1.71 | 85.6       | 2.00          | 6.03 |           |
| Toluene*       | <0.050 | 0.050           | 01/22/2016      | ND           | 1.83 | 91.6       | 2.00          | 5.89 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/22/2016      | ND           | 1.70 | 85.2       | 2.00          | 5.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/22/2016      | ND           | 5.26 | 87.7       | 6.00          | 5.81 |           |
| Total BTEX     | <0.300 | 0.300           | 01/22/2016      | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 73.6-140

| TPH 8015M    |        | mg/kg           | Analyzed By: MS |              |     |            |               |      |           |
|--------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 01/21/2016      | ND           | 186 | 92.9       | 200           | 7.25 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 01/21/2016      | ND           | 189 | 94.3       | 200           | 4.86 |           |

Surrogate: 1-Chlorooctane 74.7 % 35-147

Surrogate: 1-Chlorooctadecane 75.6 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 COG OPERATING  
 DAKOTA NEEL  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 01/20/2016  
 Reported: 01/25/2016  
 Project Name: SOPAPILLA ST #1 H BATTERY  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 01/18/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S1 - 3' (H600133-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/22/2016 | ND              | 1.71 | 85.6       | 2.00          | 6.03 |           |
| Toluene*       | <0.050 | 0.050           | 01/22/2016 | ND              | 1.83 | 91.6       | 2.00          | 5.89 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/22/2016 | ND              | 1.70 | 85.2       | 2.00          | 5.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/22/2016 | ND              | 5.26 | 87.7       | 6.00          | 5.81 |           |
| Total BTEX     | <0.300 | 0.300           | 01/22/2016 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 73.6-140

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 01/21/2016 | ND              | 186 | 92.9       | 200           | 7.25 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 01/21/2016 | ND              | 189 | 94.3       | 200           | 4.86 |           |

Surrogate: 1-Chlorooctane 85.2 % 35-147

Surrogate: 1-Chlorooctadecane 83.4 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 01/20/2016  
Reported: 01/25/2016  
Project Name: SOPAPILLA ST #1 H BATTERY  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 01/18/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S2 - SURFACE (H600133-05)**

| BTEX 8021B     |              | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result       | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050       | 0.050           | 01/22/2016 | ND              | 1.71 | 85.6       | 2.00          | 6.03 |           |
| Toluene*       | <b>0.094</b> | 0.050           | 01/22/2016 | ND              | 1.83 | 91.6       | 2.00          | 5.89 |           |
| Ethylbenzene*  | <b>0.183</b> | 0.050           | 01/22/2016 | ND              | 1.70 | 85.2       | 2.00          | 5.40 |           |
| Total Xylenes* | <b>0.878</b> | 0.150           | 01/22/2016 | ND              | 5.26 | 87.7       | 6.00          | 5.81 |           |
| Total BTEX     | <b>1.15</b>  | 0.300           | 01/22/2016 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIL) 120 % 73.6-140

| TPH 8015M    |             | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <b>131</b>  | 10.0            | 01/21/2016 | ND              | 186 | 92.9       | 200           | 7.25 |           |
| DRO >C10-C28 | <b>1340</b> | 10.0            | 01/21/2016 | ND              | 189 | 94.3       | 200           | 4.86 |           |

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 93.1 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 COG OPERATING  
 DAKOTA NEEL  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 01/20/2016  
 Reported: 01/25/2016  
 Project Name: SOPAPILLA ST #1 H BATTERY  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 01/18/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S2 - 1' (H600133-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/22/2016 | ND              | 1.71 | 85.6       | 2.00          | 6.03 |           |
| Toluene*       | <0.050 | 0.050           | 01/22/2016 | ND              | 1.83 | 91.6       | 2.00          | 5.89 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/22/2016 | ND              | 1.70 | 85.2       | 2.00          | 5.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/22/2016 | ND              | 5.26 | 87.7       | 6.00          | 5.81 |           |
| Total BTEX     | <0.300 | 0.300           | 01/22/2016 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 73.6-140

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 01/21/2016 | ND              | 186 | 92.9       | 200           | 7.25 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 01/21/2016 | ND              | 189 | 94.3       | 200           | 4.86 |           |

Surrogate: 1-Chlorooctane 76.9 % 35-147

Surrogate: 1-Chlorooctadecane 79.1 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 01/20/2016  
Reported: 01/25/2016  
Project Name: SOPAPILLA ST #1 H BATTERY  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 01/18/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S2 - 2' (H600133-07)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/23/2016 | ND              | 1.77 | 88.7       | 2.00          | 3.26 |           |
| Toluene*       | <0.050 | 0.050           | 01/23/2016 | ND              | 1.90 | 95.2       | 2.00          | 2.96 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/23/2016 | ND              | 1.76 | 88.2       | 2.00          | 2.90 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/23/2016 | ND              | 5.40 | 90.1       | 6.00          | 2.38 |           |
| Total BTEX     | <0.300 | 0.300           | 01/23/2016 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 73.6-140

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 01/21/2016 | ND              | 186 | 92.9       | 200           | 7.25 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 01/21/2016 | ND              | 189 | 94.3       | 200           | 4.86 |           |

Surrogate: 1-Chlorooctane 79.5 % 35-147

Surrogate: 1-Chlorooctadecane 80.0 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 01/20/2016  
Reported: 01/25/2016  
Project Name: SOPAPILLA ST #1 H BATTERY  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 01/18/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S2 - 3' (H600133-08)**

| BTEX 8021B     |        | mg/kg           | Analyzed By: MS |              |      |            |               |      |           |
|----------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/23/2016      | ND           | 1.77 | 88.7       | 2.00          | 3.26 |           |
| Toluene*       | <0.050 | 0.050           | 01/23/2016      | ND           | 1.90 | 95.2       | 2.00          | 2.96 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/23/2016      | ND           | 1.76 | 88.2       | 2.00          | 2.90 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/23/2016      | ND           | 5.40 | 90.1       | 6.00          | 2.38 |           |
| Total BTEX     | <0.300 | 0.300           | 01/23/2016      | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIC) 99.8 % 73.6-140

| TPH 8015M    |        | mg/kg           | Analyzed By: MS |              |     |            |               |      |           |
|--------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 01/21/2016      | ND           | 186 | 92.9       | 200           | 7.25 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 01/21/2016      | ND           | 189 | 94.3       | 200           | 4.86 |           |

Surrogate: 1-Chlorooctane 81.4 % 35-147

Surrogate: 1-Chlorooctadecane 80.9 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 01/20/2016  
Reported: 01/25/2016  
Project Name: SOPAPILLA ST #1 H BATTERY  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 01/18/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S3 - SURFACE (H600133-09)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <1.00  | 1.00            | 01/23/2016 | ND              | 1.77 | 88.7       | 2.00          | 3.26 |           |
| Toluene*       | 11.9   | 1.00            | 01/23/2016 | ND              | 1.90 | 95.2       | 2.00          | 2.96 |           |
| Ethylbenzene*  | 10.5   | 1.00            | 01/23/2016 | ND              | 1.76 | 88.2       | 2.00          | 2.90 |           |
| Total Xylenes* | 40.8   | 3.00            | 01/23/2016 | ND              | 5.40 | 90.1       | 6.00          | 2.38 |           |
| Total BTEX     | 63.2   | 6.00            | 01/23/2016 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 73.6-140

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | 2020   | 50.0            | 01/22/2016 | ND              | 199 | 99.5       | 200           | 1.09 |           |
| DRO >C10-C28 | 5210   | 50.0            | 01/22/2016 | ND              | 202 | 101        | 200           | 1.53 |           |

Surrogate: 1-Chlorooctane 133 % 35-147

Surrogate: 1-Chlorooctadecane 125 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 01/20/2016  
Reported: 01/25/2016  
Project Name: SOPAPILLA ST #1 H BATTERY  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 01/18/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S3 - 1' (H600133-10)**

| BTEX 8021B            |             | mg/kg           | Analyzed By: MS |              |      |            |               |      |           |
|-----------------------|-------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte               | Result      | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Benzene*</b>       | <b>3.17</b> | 2.00            | 01/23/2016      | ND           | 1.77 | 88.7       | 2.00          | 3.26 |           |
| <b>Toluene*</b>       | <b>38.0</b> | 2.00            | 01/23/2016      | ND           | 1.90 | 95.2       | 2.00          | 2.96 |           |
| <b>Ethylbenzene*</b>  | <b>16.1</b> | 2.00            | 01/23/2016      | ND           | 1.76 | 88.2       | 2.00          | 2.90 |           |
| <b>Total Xylenes*</b> | <b>59.4</b> | 6.00            | 01/23/2016      | ND           | 5.40 | 90.1       | 6.00          | 2.38 |           |
| <b>Total BTEX</b>     | <b>117</b>  | 12.0            | 01/23/2016      | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 73.6-140

| TPH 8015M              |             | mg/kg           | Analyzed By: MS |              |     |            |               |      |           | S-06 |
|------------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|------|
| Analyte                | Result      | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |      |
| <b>GRO C6-C10</b>      | <b>3810</b> | 50.0            | 01/22/2016      | ND           | 199 | 99.5       | 200           | 1.09 |           |      |
| <b>DRO &gt;C10-C28</b> | <b>7760</b> | 50.0            | 01/22/2016      | ND           | 202 | 101        | 200           | 1.53 |           |      |

Surrogate: 1-Chlorooctane 161 % 35-147

Surrogate: 1-Chlorooctadecane 157 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 01/20/2016  
Reported: 01/25/2016  
Project Name: SOPAPILLA ST #1 H BATTERY  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 01/18/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S3 - 2' (H600133-11)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/23/2016 | ND              | 1.77 | 88.7       | 2.00          | 3.26 |           |
| Toluene*       | <0.050 | 0.050           | 01/23/2016 | ND              | 1.90 | 95.2       | 2.00          | 2.96 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/23/2016 | ND              | 1.76 | 88.2       | 2.00          | 2.90 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/23/2016 | ND              | 5.40 | 90.1       | 6.00          | 2.38 |           |
| Total BTEX     | <0.300 | 0.300           | 01/23/2016 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.6-140

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 01/22/2016 | ND              | 199 | 99.5       | 200           | 1.09 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 01/22/2016 | ND              | 202 | 101        | 200           | 1.53 |           |

Surrogate: 1-Chlorooctane 69.8 % 35-147

Surrogate: 1-Chlorooctadecane 71.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 01/20/2016  
Reported: 01/25/2016  
Project Name: SOPAPILLA ST #1 H BATTERY  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 01/18/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S3 - 3' (H600133-12)**

| BTEX 8021B      |              | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|-----------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte         | Result       | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*        | <0.050       | 0.050           | 01/23/2016 | ND              | 1.77 | 88.7       | 2.00          | 3.26 |           |
| <b>Toluene*</b> | <b>0.173</b> | 0.050           | 01/23/2016 | ND              | 1.90 | 95.2       | 2.00          | 2.96 |           |
| Ethylbenzene*   | <0.050       | 0.050           | 01/23/2016 | ND              | 1.76 | 88.2       | 2.00          | 2.90 |           |
| Total Xylenes*  | <0.150       | 0.150           | 01/23/2016 | ND              | 5.40 | 90.1       | 6.00          | 2.38 |           |
| Total BTEX      | <0.300       | 0.300           | 01/23/2016 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.6-140

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 01/22/2016 | ND              | 199 | 99.5       | 200           | 1.09 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 01/22/2016 | ND              | 202 | 101        | 200           | 1.53 |           |

Surrogate: 1-Chlorooctane 69.5 % 35-147

Surrogate: 1-Chlorooctadecane 72.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

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---

Celey D. Keene, Lab Director/Quality Manager





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: COG Operating LLC

Project Manager: Dakota Neel

Address: 2208 West Main

City: Artesia

Phone #: (575) 748-6930

Project #:

Project Name: Sopapilla St #1H Battery

Project Location:

Sampler Name: Dakota Neel

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

S1- Surface

S1-1'

S1-2'

S1-3'

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

MATRIX

PRESERV

SAMPLING

BILL TO

P.O. #:

Company: COG Operating LLC

Attn:

Robert McNeill

Address:

600 W Illinois

City:

Midland

State: TX

Zip: 79701

Phone #:

(432) 221-0388

Fax #:

ANALYSIS REQUEST

BTEX

TPH

Chloride

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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated theories or otherwise.

Relinquished By:

Date: 1-20-16

Time: 2:00

Date:

Time:

Received By:

Checked By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition  
Cool ☒ Intact ☒  
Yes ☒ No ☐  
Yes ☒ No ☐

Checked By: (Initials)

REMARKS:

dnee12@concho.com

lcarraes@concho.com

atruillo@concho.com

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

5. Please fax written changes to 575-393-2476



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeill

Address: 600 W Illinois

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-0388

Fax #:

Company Name: COG Operating LLC  
Project Manager: Dakota Neel  
Address: 2208 West Main  
City: Artesia  
Phone #: (575) 748-6930  
State: NM Zip: 88210  
Fax #: (575) 748-6930  
Project #:   
Project Owner:   
Project Name: Sopapilla St #1H Battery  
Project Location:   
Sampler Name: Dakota Neel

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

S2- Surface  
S2-1'  
S2-2'  
S2-3'

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

MATRIX

PRESERV

SAMPLING

DATE

TIME

BTEX

TPH

Chloride

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising out of or from this contract or for the amount paid by the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated theories of otherwise.

Relinquished By:

Date:

Time:

Received By:

Relinquished By:

Date:

Time:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition  
Cool ☒ Intact ☒  
Yes ☒ No ☐  
Yes ☒ No ☐

CHECKED BY:  
(Initials)

REMARKS:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

dhneel2@concho.com

icarrasco@concho.com

atrujillo@concho.com

5. Please fax written changes to 575-393-2476





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: COG Operating LLC

Project Manager: Dakota Neel

Address: 2208 West Main

City: Artesia

Phone #: (575) 748-6930

Project #:

Project Name: Sopapilla St #1H Battery

Project Location:

Sampler Name: Dakota Neel

State: NM Zip: 88210

Fax #:

Project Owner:

Company: COG Operating LLC  
Attn: Robert McNeill  
Address: 600 W Illinois  
City: Midland  
State: TX Zip: 79701  
Phone #: (432) 221-0388  
Fax #:

P.O. #:

BILL TO

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D. Sample I.D.

9  
10  
11  
12  
S3-Surface  
S3-1'  
S3-2'  
S3-3'

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTX

TPH

Chloride

BTX

TPH

Chloride

BTX

TPH

Chloride

BTX

TPH

Chloride

BTX

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Chloride

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Chloride

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Chloride

BTX

TPH

Chloride

BTX

TPH

Chloride

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Relinquished By:

Date:

1/20/16

Received By:

Brittany Feller

Date:

2:00

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Relinquished By:

Date:

1/20/16

Received By:

Brittany Feller

Date:

2:00

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

4,8°C

Sample Condition  
Cool Intact  
☒ Yes ☐ No

CHECKED BY:  
(Initials)  
Cdk

5. Please fax written changes to 575-393-2476

February 23, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: SOPAPILLA ST #1 H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/17/16 10:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 02/17/2016  
Reported: 02/23/2016  
Project Name: SOPAPILLA ST #1 H BATTERY  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 02/05/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S1-SURFACE (H600368-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/19/2016 | ND              | 2.04 | 102        | 2.00          | 0.658 |           |
| Toluene*       | <0.050 | 0.050           | 02/19/2016 | ND              | 2.01 | 101        | 2.00          | 0.555 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/19/2016 | ND              | 1.82 | 91.1       | 2.00          | 0.118 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/19/2016 | ND              | 5.64 | 94.0       | 6.00          | 0.224 |           |
| Total BTEX     | <0.300 | 0.300           | 02/19/2016 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 73.6-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 464    | 16.0            | 02/19/2016 | ND              | 416 | 104        | 400           | 3.92 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 02/19/2016 | ND              | 198 | 99.1       | 200           | 5.85 |           |
| DRO >C10-C28 | 353    | 10.0            | 02/19/2016 | ND              | 216 | 108        | 200           | 12.2 |           |

Surrogate: 1-Chlorooctane 96.8 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
DAKOTA NEEL  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 02/17/2016  
Reported: 02/23/2016  
Project Name: SOPAPILLA ST #1 H BATTERY  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 02/05/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S1-1' (H600368-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/19/2016 | ND              | 2.04 | 102        | 2.00          | 0.658 |           |
| Toluene*       | <0.050 | 0.050           | 02/19/2016 | ND              | 2.01 | 101        | 2.00          | 0.555 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/19/2016 | ND              | 1.82 | 91.1       | 2.00          | 0.118 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/19/2016 | ND              | 5.64 | 94.0       | 6.00          | 0.224 |           |
| Total BTEX     | <0.300 | 0.300           | 02/19/2016 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 73.6-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 576    | 16.0            | 02/19/2016 | ND              | 416 | 104        | 400           | 3.92 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 02/19/2016 | ND              | 198 | 99.1       | 200           | 5.85 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 02/19/2016 | ND              | 216 | 108        | 200           | 12.2 |           |

Surrogate: 1-Chlorooctane 106 % 35-147

Surrogate: 1-Chlorooctadecane 117 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





/2015 District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

|   |                            |
|---|----------------------------|
| Name of Company: COG Operating LLC                  | Contact: Robert McNeill    |
| Address: 600 West Illinois Avenue, Midland TX 79701 | Telephone No. 432-230-0077 |
| Facility Name: SOPAPILLA STATE #001H                | Facility Type: Battery     |

|                      |                |                      |
|----------------------|----------------|----------------------|
| Surface Owner: State | Mineral Owner: | API No. 30-025-40733 |
|----------------------|----------------|----------------------|

**LOCATION OF RELEASE**

|                  |              |                 |              |                       |                           |                      |                        |               |
|------------------|--------------|-----------------|--------------|-----------------------|---------------------------|----------------------|------------------------|---------------|
| Unit Letter<br>M | Section<br>2 | Township<br>23S | Range<br>33E | Feet from the<br>190' | North/South Line<br>South | Feet from the<br>380 | East/West Line<br>West | County<br>Lea |
|------------------|--------------|-----------------|--------------|-----------------------|---------------------------|----------------------|------------------------|---------------|

Latitude 32.3270264 Longitude -103.5504532

**NATURE OF RELEASE**

|  |  |   |
|--|--|---|
| Type of Release:<br>Oil  | Volume of Release:<br>11 bbls                      | Volume Recovered:<br>5 bbls                       |
| Source of Release:<br>Dump valve   | Date and Hour of Occurrence:<br>11/6/2015 10:00 pm | Date and Hour of Discovery:<br>11/6/2015 10:00 pm |
| Was Immediate Notice Given?<br><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom?                                   |   |
| By Whom?   | Date and Hour:                                     |   |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If YES, Volume Impacting the Watercourse.          |   |

If a Watercourse was Impacted, Describe Fully.\*

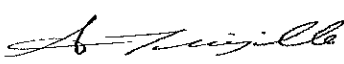
Describe Cause of Problem and Remedial Action Taken.\*

This release was caused by an oil dump on the KO not working properly causing the oil to be sent to the flare. A vacuum truck was dispatched to recover the standing fluid.

Describe Area Affected and Cleanup Action Taken.\*

This release impacted the pasture near the battery. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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

|  |                                       |                  |                                   |
|--|---------------------------------------|------------------|-----------------------------------|
| Signature:  | <b>OIL CONSERVATION DIVISION</b>      |                  |                                   |
| Printed Name: Amanda Trujillo Davis  | Approved by Environmental Specialist: |                  |                                   |
| Title: Senior Environmental Coordinator  | Approval Date:                        | Expiration Date: |                                   |
| E-mail Address: atrujillo@concho.com   | Conditions of Approval:               |                  | Attached <input type="checkbox"/> |
| Date: November 13, 2015 Phone: 575-748-6940  |                                       |                  |                                   |

\* Attach Additional Sheets If Necessary

2015 District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

|   |                            |                      |
|---|----------------------------|----------------------|
| Name of Company: COG Operating LLC                  | Contact: Robert McNeill    |                      |
| Address: 600 West Illinois Avenue, Midland TX 79701 | Telephone No. 432-230-0077 |                      |
| Facility Name: SOPAPILLA STATE #001H                | Facility Type: Battery     |                      |
| Surface Owner: State                                | Mineral Owner:             | API No. 30-025-40733 |

#### LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| M           | 2       | 23S      | 33E   | 190'          | South            | 380           | West           | Lea    |

Latitude 32.3270264 Longitude -103.5504532

#### NATURE OF RELEASE

|  |  |   |
|--|--|---|
| Type of Release:<br>Oil  | Volume of Release:<br>20 bbls                    | Volume Recovered:<br>19 bbls                    |
| Source of Release:<br>Closed Valve   | Date and Hour of Occurrence:<br>2/3/2016 7:00 pm | Date and Hour of Discovery:<br>2/3/2016 7:00 pm |
| Was Immediate Notice Given?<br><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom?                                 |   |
| By Whom?   | Date and Hour:                                   |   |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If YES, Volume Impacting the Watercourse.        |   |

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

E pilots and inlet valves were being serviced. During the process the supply gas to heater was closed and was never reopened. As heater loss pressure fluid eventually went over the top and out the flare. A vacuum truck was dispatched to recover standing fluid.

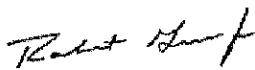
Describe Area Affected and Cleanup Action Taken.\*

This release occurred primarily at the flare within the flare containment and impacted the pasture nearby. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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

#### OIL CONSERVATION DIVISION

Signature:



Approved by Environmental Specialist:

Printed Name: Robert Grubbs

Title: Senior Environmental Coordinator

Approval Date:

Expiration Date:

E-mail Address: rgrubbs@concho.com

Conditions of Approval:

Attached ☐

Date: February 15, 2016

Phone: 432-230-0077

\* Attach Additional Sheets If Necessary