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September 14, 2015

#5B24203-BG1

NMOCD District I  
1625 N. French Drive  
Hobbs, New Mexico 88240

SUBJECT: FINAL CLOSURE REPORT FOR INCIDENT 1RP-3804 ROY BATTY FEDERAL COM NO. 003H, LEA COUNTY, NEW MEXICO

Dear Ms. Jones:

On behalf of Trade Star Energy, Souder Miller & Associates is pleased to submit the attached Final Closure Report of the remediation of the release site located on Roy Batty Federal Com No. 003H in Lea County, New Mexico. The purpose of the Final Report is to obtain approval from the New Mexico Oil Conservation Division (NMOCD) for the closure of the release that occurred on Bureau of Land Management property on July 24, 2015.

Souder, Miller & Associates (SMA) responded at the request of Trade Star Energy and COG Operating to assess and delineate the release of production fluids associated with the Roy Batty Federal Com No. 003H well location. The release was initially reported to NMOCD by COG Operating on August 7, 2015, and was a result of a human error. The table below summarizes information regarding the release. Results of the assessment, delineation, and remedial activities follow in the attached closure report.

| Table 1: Release information and Site Ranking |  |               |                          |            |                   |
|---|--|---------------|--------------------------|------------|-------------------|
| Name  | Roy Batty Federal Com #3H                          |               |                          |            |                   |
| Location                                      | Incident Number                                    | API Number    | Section, Township, Range |            |                   |
|   | 1RP-3804   | 300-025-41333 | SW/NE (Unit O)           | Section 11 | T 24S, R 33E NMPM |
| Estimated Date of Release                     | 7/24/15  |               |                          |            |                   |
| Date Reported to NMOCD                        | 8/7/15   |               |                          |            |                   |
| Reported by                                   | Amanda Trujillo                                    |               |                          |            |                   |
| Land Owner                                    | Bureau of Land Management (BLM)                    |               |                          |            |                   |
| Reported To                                   | NM Oil Conservation Division (NMOCD)               |               |                          |            |                   |
| Source of Release                             | Human Error  |               |                          |            |                   |
| Released Material                             | Oil  |               |                          |            |                   |
| Released Volume                               | 18 bbls Oil  |               |                          |            |                   |
| Recovered Volume                              | 0 bbls Oil   |               |                          |            |                   |
| Net Release                                   | 18 bbl Oil   |               |                          |            |                   |
| Nearest Waterway                              | Pecos River is over 25 miles west of the location. |               |                          |            |                   |

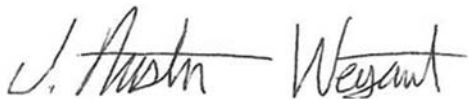


|                               |                          |
|-------------------------------|--------------------------|
| Depth to Groundwater          | Estimated to be 110 feet |
| Nearest Domestic Water Source | Greater than 1000 feet   |
| NMOCD Ranking                 | 0                        |
| SMA Response Dates            | 8/3/2015                 |

Attached is a copy of the C-141 final, located in Appendix B. For questions or comments pertaining to the release or the attached Closure Report please feel free to contact either of us.

Submitted by:

SOUDER, MILLER & ASSOCIATES



Austin Weyant  
Project Scientist

Reviewed by:



Cynthia Gray, CHMM  
Senior Scientist

# FINAL CLOSURE REPORT FOR INCIDENT 1RP-3804

COG OPERATING LLC

ROY BATTY FEDERAL COM No. 003H

API# 30-025-41333

SECTION 11, T24S R33E, NMPM

LEA COUNTY, NM



Prepared for:  
Trade Star Energy  
5408 Thomason  
Carlsbad, NM 88220  
432-755-4103

Prepared by:  
Souder, Miller & Associates  
201 S. Halagueno  
Carlsbad, NM 88221  
575-689-7040

September 14, 2015  
SMA Reference  
5B24203 BG1

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Table 1: Release Information and Site Ranking

Table 2: Summary of Laboratory Analyses

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Appendix A: Laboratory Analytical Reports

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## **1.0 Introduction**

On behalf of Trade Star Energy and COG Operating LLC (COG), SMA has prepared this report that describes the assessment, initial delineation, and mitigation of a release associated with Roy Batty Federal Com No. 003H release site. The site is located in Section 11, T 24S, R 33E NMPM, Lea County, New Mexico, on land owned by the Bureau of Land Management (BLM). Figure 1 illustrates the vicinity and location of the site

## **2.0 Site Ranking and Land Jurisdiction**

The release site is located approximately 25 miles east of the Pecos River, in an area owned by Bureau of Land Management (BLM) with an elevation of approximately 3,600 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be approximately 110 feet below ground surface (bgs).

SMA searched the New Mexico State Engineer's Office online water well database for water wells in the vicinity of the release. No well is located within a 1000 foot radius of the site. Figure 1 depicts the site vicinity and Figure 2 shows the site itself. The physical location of this release is within the jurisdiction of NMOCD.

Based on the NMOCD Guidelines Ranking Criteria, this release location has been assigned an NMOCD ranking of 0 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 5000 ppm total petroleum hydrocarbons (TPH). Table 1 illustrates the site ranking rationale.

## **3.0 Assessment and Initial Results**

On August 3, 2015, SMA field personnel assessed the release area onsite with a mobile chlorides titration kit and Photo Ionization Detector (PID). The affected area was found to be approximately 70 feet long and 40 feet wide. The spill occurred on the well pad. Sampling of the site occurred on August 3, 2015 with samples taken to depths of three feet bgs. All samples indicated that the soils at the surface are at background levels of chlorides. Sample locations and the excavation area are noted on Figure 2 Site Details and Sample Location Map. Field screening results are noted in Table 2 in the appendices. All samples were collected and processed according to NMOCD soil sampling procedures. Samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for Benzene and Total BTEX using EPA Method 8021B, TPH (DRO and GRO) by EPA Method 8015D, and total Chlorides using EPA Method 300.0.

## **4.0 Soil Remediation Summary**

Initial excavation activities during the spill response removed the contaminated soil from the area of the incident. Initial action included scraping of 4 to 15 inches bgs within the spill area on the pad. SMA took closure samples using a discrete sampling method on August 3, 2015 as shown in Table 3 and Figure 2. Samples were taken to ensure that contaminated soils had been removed. Excavation was conducted to depths of 4 to 15 inches bgs in the spill area to remove the soils affected. Contaminated soils were removed and replaced with clean backfill material to bring the excavated area to surface grade.

## **5.0 Conclusions and Recommendations**

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern for a site ranking of 0: 10 ppm (mg/kg) Benzene, 50 ppm total BTEX, and 5000 ppm TPH. The release consisted of oil with no evidence of produced water impacts found during the initial assessment and delineation.

Laboratory analytical results for all final closure samples collected were below NMOCD action levels for Benzene, BTEX, and TPH. No further remedial activities are recommended.

To confirm that the contaminated soil was removed, all closure samples were taken and analyzed as discrete samples.

Soil contaminant concentrations are illustrated in Figure 2. A summary of laboratory analytical results for closure confirmation is included in Table 2. Laboratory reports are included in Appendix A.

## **6.0 Closure and Limitations**

The scope of our services consisted of the performance of a regulatory liaison, collection of closure confirmation samples and preparation of this Closure Report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-7040 or Cindy Gray at 505-325-7535.

Submitted by:

SOUDER, MILLER & ASSOCIATES



Austin Weyant  
Project Scientist

Reviewed by:



Cynthia Gray, CHMM  
Senior Scientist

**Figures:**

Figure 1: Vicinity Map

Figure 2: Detailed Site and Sample Map

**Tables:**

Table 1: Release Information and Site Ranking

Table 2: Summary of Laboratory Analyses

**Appendices:**

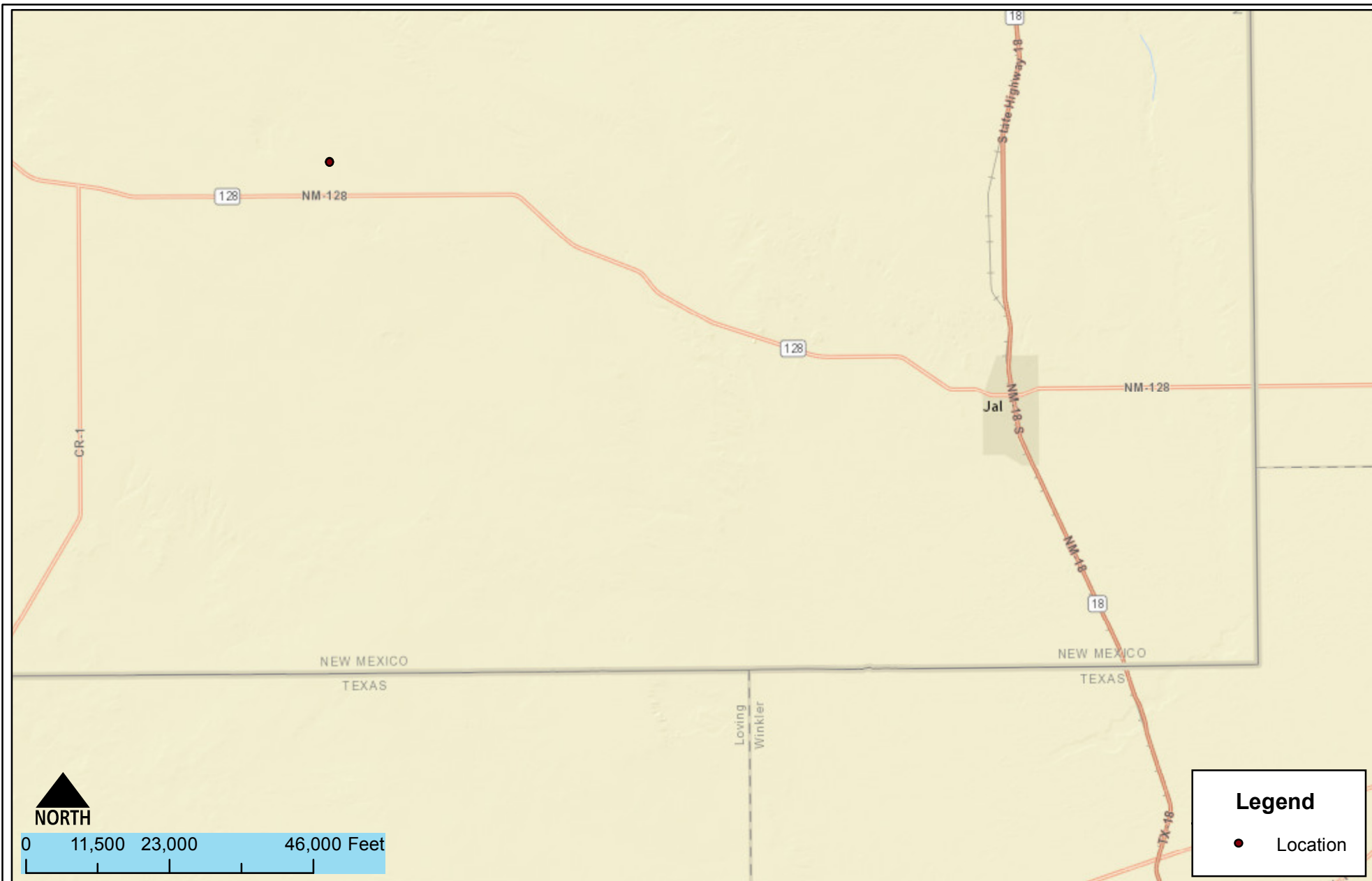
Appendix A: Laboratory Analytical Reports

Appendix B: Form C141 Final

Appendix C: Photo Gallery

# FIGURE 1 VICINITY MAP





Vicinity Map  
Trade Star- ROY BATTY FEDERAL COM No. 003H  
Jal, New Mexico

Figure 1

Date Saved:  
9/15/2015

|           |             |           |              |
|-----------|-------------|-----------|--------------|
| By: _____ | Date: _____ | Revisions | Descr: _____ |
| By: _____ | Date: _____ |           | Descr: _____ |

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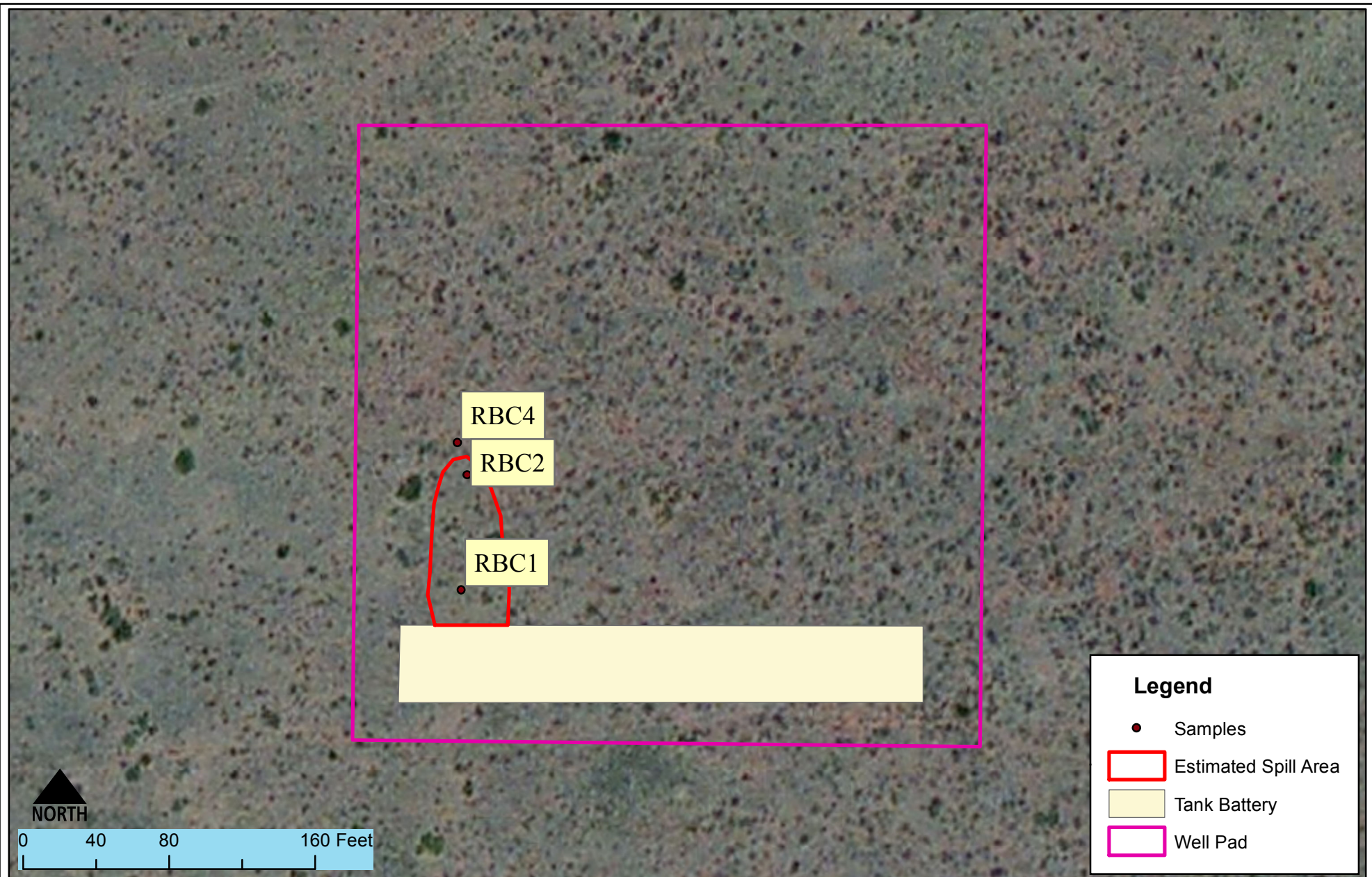
|          |                        |
|----------|------------------------|
| Drawn    | <u>Lucas Middleton</u> |
| Checked  | _____                  |
| Approved | _____                  |



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(575) 689-7040  
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# FIGURE 2

## DETAILED SITE AND SAMPLE MAP



Detailed Site and Sample Map  
Trade Star- ROY BATTY FEDERAL COM No. 003H  
Jal, New Mexico

Figure 2

|  |           |             |           |              |
|--|-----------|-------------|-----------|--------------|
| Date Saved:<br>9/15/2015   | By: _____ | Date: _____ | Revisions | Descr: _____ |
|  | By: _____ | Date: _____ |           | Descr: _____ |
| Copyright 2015 Souder, Miller & Associates - All Rights Reserved |           |             |           |              |

|          |                 |
|----------|-----------------|
| Drawn    | Lucas Middleton |
| Checked  | _____           |
| Approved | _____           |



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# TABLE 1

## RELEASE INFORMATION AND SITE RANKING

| Table 1: Release information and Site Ranking |  |               |                          |            |                   |
|---|--|---------------|--------------------------|------------|-------------------|
| Name  | Roy Battery Federal Com #3H                        |               |                          |            |                   |
| Location                                      | Incident Number                                    | API Number    | Section, Township, Range |            |                   |
|   | 1RP-3804   | 300-025-41333 | SW/NE (Unit O)           | Section 11 | T 24S, R 33E NMPM |
| Estimated Date of Release                     | 7/24/15  |               |                          |            |                   |
| Date Reported to NMOCD                        | 8/7/15   |               |                          |            |                   |
| Reported by                                   | Amanda Trujillo                                    |               |                          |            |                   |
| Land Owner                                    | Bureau of Land Management (BLM)                    |               |                          |            |                   |
| Reported To                                   | NM Oil Conservation Division (NMOCD)               |               |                          |            |                   |
| Source of Release                             | Human Error  |               |                          |            |                   |
| Released Material                             | Oil  |               |                          |            |                   |
| Released Volume                               | 18 bbls Oil  |               |                          |            |                   |
| Recovered Volume                              | 0 bbls Oil   |               |                          |            |                   |
| Net Release                                   | 18 bbl Oil   |               |                          |            |                   |
| Nearest Waterway                              | Pecos River is over 25 miles west of the location. |               |                          |            |                   |
| Depth to Groundwater                          | Estimated to be 110 feet                           |               |                          |            |                   |
| Nearest Domestic Water Source                 | Greater than 1000 feet                             |               |                          |            |                   |
| NMOCD Ranking                                 | 0  |               |                          |            |                   |
| SMA Response Dates                            | 8/5/2015   |               |                          |            |                   |

# TABLE 2

## SUMMARY OF LABORATORY ANALYSES

**Table 2: Summary of Laboratory Analyses**

| Analytical<br>Report-<br>1508238 | Sample<br>Number on<br>Figure 2 Map | Sample Date | Depth | BTEX<br>ppm | Benzene<br>mg/Kg | GRO<br>mg/Kg | DRO<br>mg/Kg | Cl-<br>mg/Kg |
|----------------------------------|-------------------------------------|-------------|-------|-------------|------------------|--------------|--------------|--------------|
| 1508238-001                      | RBC1                                | 8/3/2015    | 1'    | BDL         | BDL              | 14           | 2700         | 410          |
| 1508238-002                      | RBC2                                | 8/3/2015    | 2'    | BDL         | BDL              | BDL          | 310          | 170          |
| 1508238-004                      | RBC4                                | 8/3/2015    | 3'    | BDL         | BDL              | BDL          | BDL          | 160          |

# APPENDIX A

## LABORATORY ANALYTICAL REPORTS





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

August 13, 2015

Austin Weyant  
Souder, Miller & Associates  
201 S Halagueno  
Carlsbad, NM 88221  
TEL: (575) 689-7040  
FAX

RE: Roy Bath

OrderNo.: 1508238

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/6/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1508238

Date Reported: 8/13/2015

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** RBC 1

**Project:** Roy Bath

**Collection Date:** 8/3/2015 9:00:00 AM

**Lab ID:** 1508238-001

**Matrix:** SOIL

**Received Date:** 8/6/2015 10:05:00 AM

| Analyses   | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch               |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    |                      | Analyst: <b>LGT</b> |
| Chloride   | 410    | 30       |      | mg/Kg | 20 | 8/11/2015 7:38:14 PM | 20732               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: <b>JME</b> |
| Diesel Range Organics (DRO)                      | 2700   | 97       |      | mg/Kg | 10 | 8/11/2015 4:13:08 PM | 20689               |
| Surr: DNOP                                       | 0      | 57.9-140 | S    | %REC  | 10 | 8/11/2015 4:13:08 PM | 20689               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    |                      | Analyst: <b>RAA</b> |
| Gasoline Range Organics (GRO)                    | 14     | 4.9      |      | mg/Kg | 1  | 8/10/2015 4:18:24 PM | 20670               |
| Surr: BFB  | 168    | 75.4-113 | S    | %REC  | 1  | 8/10/2015 4:18:24 PM | 20670               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    |                      | Analyst: <b>RAA</b> |
| Methyl tert-butyl ether (MTBE)                   | ND     | 0.098    |      | mg/Kg | 1  | 8/10/2015 4:18:24 PM | 20670               |
| Benzene  | ND     | 0.049    |      | mg/Kg | 1  | 8/10/2015 4:18:24 PM | 20670               |
| Toluene  | ND     | 0.049    |      | mg/Kg | 1  | 8/10/2015 4:18:24 PM | 20670               |
| Ethylbenzene                                     | 0.058  | 0.049    |      | mg/Kg | 1  | 8/10/2015 4:18:24 PM | 20670               |
| Xylenes, Total                                   | 0.37   | 0.098    |      | mg/Kg | 1  | 8/10/2015 4:18:24 PM | 20670               |
| Surr: 4-Bromofluorobenzene                       | 114    | 80-120   |      | %REC  | 1  | 8/10/2015 4:18:24 PM | 20670               |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |    |   |    |   |
|--------------------|----|---|----|---|
| <b>Qualifiers:</b> | *  | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                       |
|                    | S  | % Recovery outside of range due to dilution or matrix |    |   |

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1508238**

Date Reported: **8/13/2015**

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** RBC 2

**Project:** Roy Bath

**Collection Date:** 8/3/2015 9:00:00 AM

**Lab ID:** 1508238-002

**Matrix:** SOIL

**Received Date:** 8/6/2015 10:05:00 AM

| Analyses   | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch               |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    |                      | Analyst: <b>LGT</b> |
| Chloride   | 170    | 30       |      | mg/Kg | 20 | 8/11/2015 7:50:39 PM | 20732               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: <b>JME</b> |
| Diesel Range Organics (DRO)                      | 310    | 10       |      | mg/Kg | 1  | 8/11/2015 4:40:13 PM | 20689               |
| Surr: DNOP                                       | 122    | 57.9-140 |      | %REC  | 1  | 8/11/2015 4:40:13 PM | 20689               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    |                      | Analyst: <b>RAA</b> |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 8/10/2015 9:41:04 PM | 20670               |
| Surr: BFB  | 112    | 75.4-113 |      | %REC  | 1  | 8/10/2015 9:41:04 PM | 20670               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    |                      | Analyst: <b>RAA</b> |
| Methyl tert-butyl ether (MTBE)                   | ND     | 0.098    |      | mg/Kg | 1  | 8/10/2015 9:41:04 PM | 20670               |
| Benzene  | ND     | 0.049    |      | mg/Kg | 1  | 8/10/2015 9:41:04 PM | 20670               |
| Toluene  | ND     | 0.049    |      | mg/Kg | 1  | 8/10/2015 9:41:04 PM | 20670               |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 8/10/2015 9:41:04 PM | 20670               |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 8/10/2015 9:41:04 PM | 20670               |
| Surr: 4-Bromofluorobenzene                       | 98.7   | 80-120   |      | %REC  | 1  | 8/10/2015 9:41:04 PM | 20670               |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |    |   |    |   |
|--------------------|----|---|----|---|
| <b>Qualifiers:</b> | *  | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                       |
|                    | S  | % Recovery outside of range due to dilution or matrix |    |   |

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1508238**

Date Reported: **8/13/2015**

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** RBC 4

**Project:** Roy Bath

**Collection Date:** 8/3/2015 9:00:00 AM

**Lab ID:** 1508238-003

**Matrix:** SOIL

**Received Date:** 8/6/2015 10:05:00 AM

| Analyses   | Result | RL       | Qual | Units | DF | Date Analyzed         | Batch               |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    |                       | Analyst: <b>LGT</b> |
| Chloride   | 160    | 30       |      | mg/Kg | 20 | 8/11/2015 8:03:04 PM  | 20732               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                       | Analyst: <b>JME</b> |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 8/11/2015 5:07:02 PM  | 20689               |
| Surr: DNOP                                       | 90.2   | 57.9-140 |      | %REC  | 1  | 8/11/2015 5:07:02 PM  | 20689               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    |                       | Analyst: <b>RAA</b> |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 8/10/2015 10:05:52 PM | 20670               |
| Surr: BFB  | 92.8   | 75.4-113 |      | %REC  | 1  | 8/10/2015 10:05:52 PM | 20670               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    |                       | Analyst: <b>RAA</b> |
| Methyl tert-butyl ether (MTBE)                   | ND     | 0.098    |      | mg/Kg | 1  | 8/10/2015 10:05:52 PM | 20670               |
| Benzene  | ND     | 0.049    |      | mg/Kg | 1  | 8/10/2015 10:05:52 PM | 20670               |
| Toluene  | ND     | 0.049    |      | mg/Kg | 1  | 8/10/2015 10:05:52 PM | 20670               |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 8/10/2015 10:05:52 PM | 20670               |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 8/10/2015 10:05:52 PM | 20670               |
| Surr: 4-Bromofluorobenzene                       | 97.3   | 80-120   |      | %REC  | 1  | 8/10/2015 10:05:52 PM | 20670               |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |    |   |    |   |
|--------------------|----|---|----|---|
| <b>Qualifiers:</b> | *  | Value exceeds Maximum Contaminant Level.              | B  | Analyte detected in the associated Method Blank |
|                    | D  | Sample Diluted Due to Matrix                          | E  | Value above quantitation range                  |
|                    | H  | Holding times for preparation or analysis exceeded    | J  | Analyte detected below quantitation limits      |
|                    | ND | Not Detected at the Reporting Limit                   | P  | Sample pH Not In Range                          |
|                    | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                       |
|                    | S  | % Recovery outside of range due to dilution or matrix |    |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1508238

13-Aug-15

Client: Souder, Miller &amp; Associates

Project: Roy Bath

|            |           |     |                |             |      |           |                          |      |              |      |  |
|------------|-----------|-----|----------------|-------------|------|-----------|--------------------------|------|--------------|------|--|
| Sample ID  | MB-20732  |     | SampType:      | MBLK        |      | TestCode: | EPA Method 300.0: Anions |      |              |      |  |
| Client ID: | PBS       |     | Batch ID:      | 20732       |      | RunNo:    | 28132                    |      |              |      |  |
| Prep Date: | 8/11/2015 |     | Analysis Date: | 8/11/2015   |      | SeqNo:    | 847597                   |      | Units: mg/Kg |      |  |
| Analyte    | Result    | PQL | SPK value      | SPK Ref Val | %REC | LowLimit  | HighLimit                | %RPD | RPDLimit     | Qual |  |
| Chloride   | ND        | 1.5 |                |             |      |           |                          |      |              |      |  |

|            |           |     |                          |             |                                    |          |              |      |          |      |
|------------|-----------|-----|--------------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID  | LCS-20732 |     | SampType: LCS            |             | TestCode: EPA Method 300.0: Anions |          |              |      |          |      |
| Client ID: | LCSS      |     | Batch ID: 20732          |             | RunNo: 28132                       |          |              |      |          |      |
| Prep Date: | 8/11/2015 |     | Analysis Date: 8/11/2015 |             | SeqNo: 847598                      |          | Units: mg/Kg |      |          |      |
| Analyte    | Result    | PQL | SPK value                | SPK Ref Val | %REC                               | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Chloride   | 15        | 1.5 | 15.00                    | 0           | 99.5                               | 90       | 110          |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1508238

13-Aug-15

Client: Souder, Miller &amp; Associates

Project: Roy Bath

|                                |           |     |                          |             |   |          |              |      |          |      |
|--------------------------------|-----------|-----|--------------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID                      | MB-20689  |     | SampType: MBLK           |             | TestCode: EPA Method 8015M/D: Diesel Range Organics |          |              |      |          |      |
| Client ID:                     | PBS       |     | Batch ID: 20689          |             | RunNo: 28093  |          |              |      |          |      |
| Prep Date:                     | 8/10/2015 |     | Analysis Date: 8/12/2015 |             | SeqNo: 846969                                       |          | Units: mg/Kg |      |          |      |
| Analyte                        | Result    | PQL | SPK value                | SPK Ref Val | %REC  | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND        | 10  |                          |             |   |          |              |      |          |      |
| Motor Oil Range Organics (MRO) | ND        | 50  |                          |             |   |          |              |      |          |      |
| Surr: DNOP                     | 7.7       |     | 10.00                    |             | 76.6  | 57.9     | 140          |      |          |      |

|                             |           |     |                          |             |   |          |              |      |          |      |
|-----------------------------|-----------|-----|--------------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID                   | LCS-20689 |     | SampType: LCS            |             | TestCode: EPA Method 8015M/D: Diesel Range Organics |          |              |      |          |      |
| Client ID:                  | LCSS      |     | Batch ID: 20689          |             | RunNo: 28093  |          |              |      |          |      |
| Prep Date:                  | 8/10/2015 |     | Analysis Date: 8/12/2015 |             | SeqNo: 846970                                       |          | Units: mg/Kg |      |          |      |
| Analyte                     | Result    | PQL | SPK value                | SPK Ref Val | %REC  | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 38        | 10  | 50.00                    | 0           | 77.0  | 57.4     | 139          |      |          |      |
| Surr: DNOP                  | 3.9       |     | 5.000                    |             | 77.6  | 57.9     | 140          |      |          |      |

|            |           |     |                          |             |   |          |             |      |          |      |
|------------|-----------|-----|--------------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID  | MB-20735  |     | SampType: MBLK           |             | TestCode: EPA Method 8015M/D: Diesel Range Organics |          |             |      |          |      |
| Client ID: | PBS       |     | Batch ID: 20735          |             | RunNo: 28122  |          |             |      |          |      |
| Prep Date: | 8/12/2015 |     | Analysis Date: 8/12/2015 |             | SeqNo: 847381                                       |          | Units: %REC |      |          |      |
| Analyte    | Result    | PQL | SPK value                | SPK Ref Val | %REC  | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Surr: DNOP | 11        |     | 10.00                    |             | 113   | 57.9     | 140         |      |          |      |

|            |           |     |                          |             |   |          |             |      |          |      |
|------------|-----------|-----|--------------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID  | LCS-20735 |     | SampType: LCS            |             | TestCode: EPA Method 8015M/D: Diesel Range Organics |          |             |      |          |      |
| Client ID: | LCSS      |     | Batch ID: 20735          |             | RunNo: 28122  |          |             |      |          |      |
| Prep Date: | 8/12/2015 |     | Analysis Date: 8/12/2015 |             | SeqNo: 847676                                       |          | Units: %REC |      |          |      |
| Analyte    | Result    | PQL | SPK value                | SPK Ref Val | %REC  | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Surr: DNOP | 5.4       |     | 5.000                    |             | 109   | 57.9     | 140         |      |          |      |

### Qualifiers:

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D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1508238

13-Aug-15

Client: Souder, Miller &amp; Associates

Project: Roy Bath

|                               |          |     |                          |             |  |          |              |      |          |      |
|-------------------------------|----------|-----|--------------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID                     | MB-20670 |     | SampType: MBLK           |             | TestCode: EPA Method 8015D: Gasoline Range |          |              |      |          |      |
| Client ID:                    | PBS      |     | Batch ID: 20670          |             | RunNo: 28068                               |          |              |      |          |      |
| Prep Date:                    | 8/7/2015 |     | Analysis Date: 8/10/2015 |             | SeqNo: 845747                              |          | Units: mg/Kg |      |          |      |
| Analyte                       | Result   | PQL | SPK value                | SPK Ref Val | %REC                                       | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND       | 5.0 |                          |             |  |          |              |      |          |      |
| Surr: BFB                     | 880      |     | 1000                     |             | 87.9                                       | 75.4     | 113          |      |          |      |

|                               |           |     |                          |             |  |          |              |      |          |      |
|-------------------------------|-----------|-----|--------------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID                     | LCS-20670 |     | SampType: LCS            |             | TestCode: EPA Method 8015D: Gasoline Range |          |              |      |          |      |
| Client ID:                    | LCSS      |     | Batch ID: 20670          |             | RunNo: 28068                               |          |              |      |          |      |
| Prep Date:                    | 8/7/2015  |     | Analysis Date: 8/10/2015 |             | SeqNo: 845748                              |          | Units: mg/Kg |      |          |      |
| Analyte                       | Result    | PQL | SPK value                | SPK Ref Val | %REC                                       | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 23        | 5.0 | 25.00                    | 0           | 93.6                                       | 79.6     | 122          |      |          |      |
| Surr: BFB                     | 990       |     | 1000                     |             | 98.8                                       | 75.4     | 113          |      |          |      |

|            |           |     |                          |             |  |          |             |      |          |      |
|------------|-----------|-----|--------------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID  | MB-20686  |     | SampType: MBLK           |             | TestCode: EPA Method 8015D: Gasoline Range |          |             |      |          |      |
| Client ID: | PBS       |     | Batch ID: 20686          |             | RunNo: 28106                               |          |             |      |          |      |
| Prep Date: | 8/10/2015 |     | Analysis Date: 8/11/2015 |             | SeqNo: 846886                              |          | Units: %REC |      |          |      |
| Analyte    | Result    | PQL | SPK value                | SPK Ref Val | %REC                                       | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Surr: BFB  | 900       |     | 1000                     |             | 89.6                                       | 75.4     | 113         |      |          |      |

|            |           |     |                          |             |  |          |             |      |          |      |
|------------|-----------|-----|--------------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID  | LCS-20686 |     | SampType: LCS            |             | TestCode: EPA Method 8015D: Gasoline Range |          |             |      |          |      |
| Client ID: | LCSS      |     | Batch ID: 20686          |             | RunNo: 28106                               |          |             |      |          |      |
| Prep Date: | 8/10/2015 |     | Analysis Date: 8/11/2015 |             | SeqNo: 846887                              |          | Units: %REC |      |          |      |
| Analyte    | Result    | PQL | SPK value                | SPK Ref Val | %REC                                       | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Surr: BFB  | 1000      |     | 1000                     |             | 99.7                                       | 75.4     | 113         |      |          |      |

### Qualifiers:

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ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1508238

13-Aug-15

Client: Souder, Miller &amp; Associates

Project: Roy Bath

|                                |          |       |                          |             |                                       |          |              |      |          |      |
|--------------------------------|----------|-------|--------------------------|-------------|---------------------------------------|----------|--------------|------|----------|------|
| Sample ID                      | MB-20670 |       | SampType: MBLK           |             | TestCode: EPA Method 8021B: Volatiles |          |              |      |          |      |
| Client ID:                     | PBS      |       | Batch ID: 20670          |             | RunNo: 28068                          |          |              |      |          |      |
| Prep Date:                     | 8/7/2015 |       | Analysis Date: 8/10/2015 |             | SeqNo: 845787                         |          | Units: mg/Kg |      |          |      |
| Analyte                        | Result   | PQL   | SPK value                | SPK Ref Val | %REC                                  | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | ND       | 0.10  |                          |             |                                       |          |              |      |          |      |
| Benzene                        | ND       | 0.050 |                          |             |                                       |          |              |      |          |      |
| Toluene                        | ND       | 0.050 |                          |             |                                       |          |              |      |          |      |
| Ethylbenzene                   | ND       | 0.050 |                          |             |                                       |          |              |      |          |      |
| Xylenes, Total                 | ND       | 0.10  |                          |             |                                       |          |              |      |          |      |
| Surr: 4-Bromofluorobenzene     | 0.96     |       | 1.000                    |             | 95.9                                  | 80       | 120          |      |          |      |

|                                |           |       |                          |             |                                       |          |              |      |          |      |
|--------------------------------|-----------|-------|--------------------------|-------------|---------------------------------------|----------|--------------|------|----------|------|
| Sample ID                      | LCS-20670 |       | SampType: LCS            |             | TestCode: EPA Method 8021B: Volatiles |          |              |      |          |      |
| Client ID:                     | LCSS      |       | Batch ID: 20670          |             | RunNo: 28068                          |          |              |      |          |      |
| Prep Date:                     | 8/7/2015  |       | Analysis Date: 8/10/2015 |             | SeqNo: 845788                         |          | Units: mg/Kg |      |          |      |
| Analyte                        | Result    | PQL   | SPK value                | SPK Ref Val | %REC                                  | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | 1.0       | 0.10  | 1.000                    | 0           | 103                                   | 69.8     | 143          |      |          |      |
| Benzene                        | 1.0       | 0.050 | 1.000                    | 0           | 105                                   | 76.6     | 128          |      |          |      |
| Toluene                        | 1.0       | 0.050 | 1.000                    | 0           | 103                                   | 75       | 124          |      |          |      |
| Ethylbenzene                   | 1.0       | 0.050 | 1.000                    | 0           | 101                                   | 79.5     | 126          |      |          |      |
| Xylenes, Total                 | 3.3       | 0.10  | 3.000                    | 0           | 109                                   | 78.8     | 124          |      |          |      |
| Surr: 4-Bromofluorobenzene     | 1.0       |       | 1.000                    |             | 102                                   | 80       | 120          |      |          |      |

|                            |           |     |                          |             |                                       |          |             |      |          |      |
|----------------------------|-----------|-----|--------------------------|-------------|---------------------------------------|----------|-------------|------|----------|------|
| Sample ID                  | MB-20686  |     | SampType: MBLK           |             | TestCode: EPA Method 8021B: Volatiles |          |             |      |          |      |
| Client ID:                 | PBS       |     | Batch ID: 20686          |             | RunNo: 28106                          |          |             |      |          |      |
| Prep Date:                 | 8/10/2015 |     | Analysis Date: 8/11/2015 |             | SeqNo: 846916                         |          | Units: %REC |      |          |      |
| Analyte                    | Result    | PQL | SPK value                | SPK Ref Val | %REC                                  | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 0.95      |     | 1.000                    |             | 95.5                                  | 80       | 120         |      |          |      |

|                            |           |     |                          |             |                                       |          |             |      |          |      |
|----------------------------|-----------|-----|--------------------------|-------------|---------------------------------------|----------|-------------|------|----------|------|
| Sample ID                  | LCS-20686 |     | SampType: LCS            |             | TestCode: EPA Method 8021B: Volatiles |          |             |      |          |      |
| Client ID:                 | LCSS      |     | Batch ID: 20686          |             | RunNo: 28106                          |          |             |      |          |      |
| Prep Date:                 | 8/10/2015 |     | Analysis Date: 8/11/2015 |             | SeqNo: 846917                         |          | Units: %REC |      |          |      |
| Analyte                    | Result    | PQL | SPK value                | SPK Ref Val | %REC                                  | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 0.98      |     | 1.000                    |             | 98.0                                  | 80       | 120         |      |          |      |

### Qualifiers:

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D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit



# Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1508238

RcptNo: 1

|                   |                |                      |
|-------------------|----------------|----------------------|
| Received by/date: | <u>12</u>      | <u>08/06/15</u>      |
| Logged By:        | Lindsay Mangin | 8/6/2015 10:05:00 AM |
| Completed By:     | Lindsay Mangin | 8/6/2015 2:12:49 PM  |
| Reviewed By:      | <u>IO</u>      | <u>08/07/15</u>      |

## Chain of Custody

- |  |   |                             |   |
|--|---|-----------------------------|---|
| 1. Custody seals intact on sample bottles? | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 2. Is Chain of Custody complete?           | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| 3. How was the sample delivered?           | <u>UPS</u>                              |                             |   |

## Log In

- |   |   |  |  |
|---|---|--|--|
| 4. Was an attempt made to cool the samples?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | NA <input type="checkbox"/>                      |
| 5. Were all samples received at a temperature of >0° C to 6.0°C                           | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | NA <input type="checkbox"/>                      |
| 6. Sample(s) in proper container(s)?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 7. Sufficient sample volume for indicated test(s)?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 8. Are samples (except VOA and ONG) properly preserved?                                   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 9. Was preservative added to bottles?   | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/>                      |
| 10. VOA vials have zero headspace?  | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | No VOA Vials <input checked="" type="checkbox"/> |
| 11. Were any sample containers received broken?   | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |  |
| 12. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 13. Are matrices correctly identified on Chain of Custody?                                | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 14. Is it clear what analyses were requested?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 15. Were all holding times able to be met?<br>(If no, notify customer for authorization.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |

# of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

## Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes
- ☐
- No
- ☐
- NA
- ☒

|                      |       |       |   |
|----------------------|-------|-------|---|
| Person Notified:     | _____ | Date: | _____   |
| By Whom:             | _____ | Via:  | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding:           | _____ |       |   |
| Client Instructions: | _____ |       |   |

17. Additional remarks:

## 18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 4.6     | Good      | Yes         |         |           |           |



# APPENDIX B

## FORM C141 FINAL

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: Roy Battery Federal Com #3H          | Facility Type: Battery     |                      |
| Surface Owner: Federal                              | Mineral Owner:             | API No. 30-025-41333 |

### LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| O           | 11      | 24S      | 33E   | 190           | South            | 1887          | East           | Lea    |

Latitude 32.2254181 Longitude -103.5406799

### NATURE OF RELEASE

|  |   |  |
|--|---|--|
| Type of Release:<br>Oil  | Volume of Release:<br>18 bbls oil                 | Volume Recovered:<br>0 bbls                      |
| Source of Release:<br>Oil Hauler   | Date and Hour of Occurrence:<br>7/24/2015 6:00 am | Date and Hour of Discovery:<br>7/24/2015 8:30 am |
| 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 released was caused when an oil hauler with Trade Star fell asleep while loading his truck. The tanker began to run over. The truck driver shoveled soil over the spilled oil.

Describe Area Affected and Cleanup Action Taken.\*

This release remained on the pad. Trade Star responded quickly and dispatched a hydrovac to start initial clean-up. This site was addressed per NMOCD guidelines.

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  | Approved by Environmental Specialist: |                                   |
| Title: Senior Environmental Coordinator  | Approval Date:                        | Expiration Date:                  |
| E-mail Address: <a href="mailto:atrujillo@concho.com">atrujillo@concho.com</a>                 | Conditions of Approval:               | Attached <input type="checkbox"/> |
| Date: 8/9/2015 Phone: 575-748-6940   |                                       |                                   |

\* Attach Additional Sheets If Necessary

# APPENDIX C

## Photo Gallery



Photo 1: Remediation Area after clean-up  
Taken on 7/28/15



Photo 1: Remediation Area after clean-up  
Taken on 7/28/15





Photo 3: Take to show depth of conformation samples  
Taken on 8/3/15



Photo 4: Take to show depth of conformation samples  
Taken on 8/3/15