



December 28, 2022

**New Mexico Oil Conservation Division**

New Mexico Energy, Minerals, and Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Closure Request Addendum  
Broadcaster 29 Federal 003H  
Incident Numbers NAPP2132773092 & NAPP2201938653  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request Addendum* to provide an update to the lateral delineation soil sampling activities performed at the Broadcaster 29 Federal 003H (Site). The purpose of the lateral delineation soil sampling activities was to address the denial by the New Mexico Oil Conservation Division (NMOCD) of an original *Closure Request*, dated October 27, 2022. In the denial, NMOCD expressed concern that the release was not laterally delineated. Based on additional sampling activities, COG is requesting closure for Incident Numbers NAPP2132773092 and NAPP2201938653.

All of the release details regarding the incidents, site characterization, and remediation conducted can be referenced in the original *Closure Request*. NMOCD denied the *Closure Request* on November 28, 2022, for the following reason:

*Closure Report Denied. Release not laterally delineated (SS01, SS02, & SS03). Delineation samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release, regardless of DTW measurement. Please resubmit a revised closure report to the OCD portal by December 28, 2022.*

It should be noted the soil represented by SS02 was removed during the excavation. Soil remaining in place at that location is represented by subsequent excavation confirmation sample FS01. All delineation samples (including SS01 and SS03) and excavation confirmation sample FS01 meet Table I Closure Criteria, indicating the soil impacted by the release was remediated correctly. It appears NMOCD's concern is that the release was not delineated laterally to the reclamation requirement. All delineation samples near and in the direction of the edge of the well pad, where the reclamation requirement might apply, are below 100 mg/kg TPH and 600 mg/kg chloride. Soil samples SS01, SS03, and FS01 exceed 100 mg/kg TPH and are north and northwest of the flare stack on the well pad.

**ADDITIONAL DATA**

Based on NMOCD's request, on December 9, 2022, three soil samples (SS08-SS10) were collected adjacent SS01, SS03, and FS01 in the direction of the well pad from a depth of 0.5 feet bgs to assess the lateral extent of the releases. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach®

COG Operating, LLC  
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chloride QuanTab® test strips, respectively. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 1.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

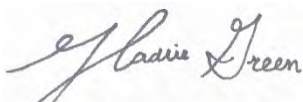
Laboratory analytical results for all three delineation soil samples indicated concentrations of all COCs were compliant with the reclamation requirement (less than 100 mg/kg TPH). Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included in Appendix A.

## CLOSURE REQUEST

Laboratory analytical results for the additional lateral delineation soil samples indicated concentrations of all COCs were compliant with the reclamation requirement. As such, COG respectfully requests closure for Incident Numbers NAPP2132773092 and NAPP2201938653. The Final C-141 is included in Appendix B.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or [kjennings@ensolum.com](mailto:kjennings@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Hadlie Green  
Staff Geologist



Kalei Jennings  
Senior Scientist

cc: Charles Beauvais, COG Operating, LLC

### Appendices:

|            |                                                                |
|------------|----------------------------------------------------------------|
| Figure 1   | Soil Sample Locations                                          |
| Table 1    | Soil Sample Analytical Results                                 |
| Appendix A | Laboratory Analytical Reports & Chain-of-Custody Documentation |
| Appendix B | Final C-141                                                    |



FIGURES

## Legend

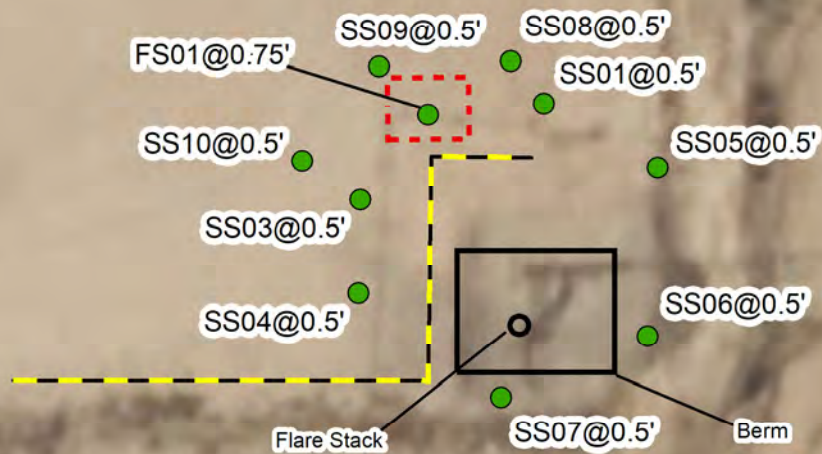
● Soil Sample in Compliance with Closure Criteria or reclamation requirement where applicable

— Approximate Pipeline Location

▭ Excavation Extent

### Notes:

Sample ID @ Depth Below Ground Surface



0 25 50 Feet

Sources: Environmental Systems Research Institute (ESRI)



**Soil Sample Locations**  
 BROADCASTER 29 FEDERAL 003H  
 COG OPERATING, LLC  
 Incident Numbers NAPP2132773092 & NAPP2201938653  
 Unit B, Sec 29 T23S R34E  
 Lea County, New Mexico

**FIGURE**  
**1**



TABLES



| TABLE 1<br>SOIL SAMPLE ANALYTICAL RESULTS<br>Broadcaster 29 Federal 003H<br>COG Operating, LLC<br>Lea County, New Mexico |            |                  |                 |                    |                 |                 |                 |                 |                   |                  |
|--------------------------------------------------------------------------------------------------------------------------|------------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| Sample Designation                                                                                                       | Date       | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
| NMOCD Table 1 Closure Criteria (NMAC 19.15.29)                                                                           |            |                  | 10              | 50                 | NE              | NE              | NE              | 1,000           | 2,500             | 20,000           |
| Preliminary Assessment Soil Samples                                                                                      |            |                  |                 |                    |                 |                 |                 |                 |                   |                  |
| SS08                                                                                                                     | 12/09/2022 | 0.5              | <0.00198        | <0.00397           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 38.1             |
| SS09                                                                                                                     | 12/09/2022 | 0.5              | <0.00200        | <0.00401           | <49.9           | 53.9            | <49.9           | 53.9            | 53.9              | 143              |
| SS10                                                                                                                     | 12/09/2022 | 0.5              | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | <5.03            |

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

**Grey** text represents samples that have been excavated



## APPENDIX A

### Laboratory Analytical Reports & Chain of Custody Documentation

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Kalei Jennings  
Ensolum  
601 N. Marienfeld St.  
Suite 400  
Midland, Texas 79701

Generated 12/27/2022 8:58:21 AM

## JOB DESCRIPTION

Broadcaster 29 Federal 003H  
SDG NUMBER 03D2024002

## JOB NUMBER

890-3622-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220





**Eurofins Carlsbad****Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

**Authorization**

Generated  
12/27/2022 8:58:21 AM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Laboratory Job ID: 890-3622-1  
SDG: 03D2024002

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## Definitions/Glossary

Client: Ensolum

Job ID: 890-3622-1

Project/Site: Broadcaster 29 Federal 003H

SDG: 03D2024002

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

Eurofins Carlsbad

## Case Narrative

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3622-1  
SDG: 03D2024002

**Job ID: 890-3622-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-3622-1****Receipt**

The sample was received on 12/12/2022 12:41 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

**Receipt Exceptions**

The following sample was received and analyzed from an unpreserved bulk soil jar: SS09 (890-3622-1).

**GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-41840 and analytical batch 880-42076 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-41755 and analytical batch 880-42176 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Client Sample Results

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3622-1  
SDG: 03D2024002

Client Sample ID: SS09

Lab Sample ID: 890-3622-1

Date Collected: 12/09/22 11:40

Matrix: Solid

Date Received: 12/12/22 12:41

Sample Depth: 0.5

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/22/22 09:05 | 12/23/22 17:19 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/22/22 09:05 | 12/23/22 17:19 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/22/22 09:05 | 12/23/22 17:19 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/22/22 09:05 | 12/23/22 17:19 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 12/22/22 09:05 | 12/23/22 17:19 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 12/22/22 09:05 | 12/23/22 17:19 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 | 12/22/22 09:05 | 12/23/22 17:19 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100       |           | 70 - 130 | 12/22/22 09:05 | 12/23/22 17:19 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 12/26/22 16:44 | 1       |

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 53.9   |           | 49.9 | mg/Kg |   |          | 12/19/22 15:08 | 1       |

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 12/14/22 14:33 | 12/17/22 22:10 | 1       |
| Diesel Range Organics (Over C10-C28) | 53.9   |           | 49.9 | mg/Kg |   | 12/14/22 14:33 | 12/17/22 22:10 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 12/14/22 14:33 | 12/17/22 22:10 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 103       |           | 70 - 130 | 12/14/22 14:33 | 12/17/22 22:10 | 1       |
| o-Terphenyl    | 103       |           | 70 - 130 | 12/14/22 14:33 | 12/17/22 22:10 | 1       |

## Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 143    |           | 5.04 | mg/Kg |   |          | 12/20/22 12:10 | 1       |

Eurofins Carlsbad

## Surrogate Summary

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3622-1  
SDG: 03D2024002

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

|                                   |                  | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-3622-1                        | SS09             | 101                                            | 100               |
| <b>Surrogate Legend</b>           |                  |                                                |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                  |                                                |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                  |                                                |                   |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-3622-1              | SS09                   | 103                                            | 103               |
| 890-3624-A-1-C MS       | Matrix Spike           | 119                                            | 92                |
| 890-3624-A-1-D MSD      | Matrix Spike Duplicate | 106                                            | 92                |
| LCS 880-41840/2-A       | Lab Control Sample     | 109                                            | 103               |
| LCSD 880-41840/3-A      | Lab Control Sample Dup | 106                                            | 114               |
| MB 880-41840/1-A        | Method Blank           | 141 S1+                                        | 140 S1+           |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

## QC Sample Results

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3622-1  
SDG: 03D2024002

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-41840/1-A

Matrix: Solid

Analysis Batch: 42076

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41840

| Analyte                              | MB Result    | MB Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------------|--------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0        | U            | 50.0     | mg/Kg |   | 12/14/22 14:33 | 12/17/22 08:52 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0        | U            | 50.0     | mg/Kg |   | 12/14/22 14:33 | 12/17/22 08:52 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0        | U            | 50.0     | mg/Kg |   | 12/14/22 14:33 | 12/17/22 08:52 | 1       |
| Surrogate                            | MB %Recovery | MB Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 141          | S1+          | 70 - 130 |       |   | 12/14/22 14:33 | 12/17/22 08:52 | 1       |
| o-Terphenyl                          | 140          | S1+          | 70 - 130 |       |   | 12/14/22 14:33 | 12/17/22 08:52 | 1       |

Lab Sample ID: LCS 880-41840/2-A

Matrix: Solid

Analysis Batch: 42076

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41840

| Analyte                              | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|---------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000          | 890.3         |               | mg/Kg |   | 89   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000          | 873.8         |               | mg/Kg |   | 87   | 70 - 130    |
| Surrogate                            | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |             |
| 1-Chlorooctane                       | 109           |               | 70 - 130      |       |   |      |             |
| o-Terphenyl                          | 103           |               | 70 - 130      |       |   |      |             |

Lab Sample ID: LCSD 880-41840/3-A

Matrix: Solid

Analysis Batch: 42076

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41840

| Analyte                              | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|----------------|----------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 927.5          |                | mg/Kg |   | 93   | 70 - 130    | 4   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000           | 976.8          |                | mg/Kg |   | 98   | 70 - 130    | 11  | 20        |
| Surrogate                            | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      |             |     |           |
| 1-Chlorooctane                       | 106            |                | 70 - 130       |       |   |      |             |     |           |
| o-Terphenyl                          | 114            |                | 70 - 130       |       |   |      |             |     |           |

Lab Sample ID: 890-3624-A-1-C MS

Matrix: Solid

Analysis Batch: 42076

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 41840

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 999         | 1103      |              | mg/Kg |   | 110  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | <50.0         | U                | 999         | 1025      |              | mg/Kg |   | 103  | 70 - 130    |

Eurofins Carlsbad

## QC Sample Results

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3622-1  
SDG: 03D2024002

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3624-A-1-C MS

Matrix: Solid

Analysis Batch: 42076

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 41840

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 119       |           | 70 - 130 |
| o-Terphenyl    | 92        |           | 70 - 130 |

Lab Sample ID: 890-3624-A-1-D MSD

Matrix: Solid

Analysis Batch: 42076

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 41840

|                                      | Sample | Sample    | Spike | MSD    | MSD       |       |   |      | %Rec     |     | RPD   |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                              | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 997   | 1074   |           | mg/Kg |   | 108  | 70 - 130 | 3   | 20    |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 997   | 1029   |           | mg/Kg |   | 103  | 70 - 130 | 0   | 20    |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 106       |           | 70 - 130 |
| o-Terphenyl    | 92        |           | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41755/1-A

Matrix: Solid

Analysis Batch: 42176

Client Sample ID: Method Blank

Prep Type: Soluble

|          | MB     | MB        |      |       |   |          |                |         |  |  |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|--|--|
| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |  |  |
| Chloride | <5.00  | U         | 5.00 | mg/Kg |   |          | 12/20/22 11:06 | 1       |  |  |

Lab Sample ID: LCS 880-41755/2-A

Matrix: Solid

Analysis Batch: 42176

Client Sample ID: Lab Control Sample

Prep Type: Soluble

|          | Spike | LCS    | LCS       |       |   |      | %Rec     |  |  |
|----------|-------|--------|-----------|-------|---|------|----------|--|--|
| Analyte  | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |  |  |
| Chloride | 250   | 229.8  |           | mg/Kg |   | 92   | 90 - 110 |  |  |

Lab Sample ID: LCSD 880-41755/3-A

Matrix: Solid

Analysis Batch: 42176

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

|          | Spike | LCSD   | LCSD      |       |   |      | %Rec     |     | RPD   |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte  | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Chloride | 250   | 230.6  |           | mg/Kg |   | 92   | 90 - 110 | 0   | 20    |

Lab Sample ID: 890-3621-A-1-B MS

Matrix: Solid

Analysis Batch: 42176

Client Sample ID: Matrix Spike

Prep Type: Soluble

|          | Sample | Sample    | Spike | MS     | MS        |       |   |      | %Rec     |  |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte  | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |  |
| Chloride | 71.0   | F1        | 250   | 292.0  | F1        | mg/Kg |   | 88   | 90 - 110 |  |

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QC Sample Results

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3622-1  
SDG: 03D2024002

Method: 300.0 - Anions, Ion Chromatography (Continued)

|                                   |               |                  |             |            |                                          |       |   |      |             |     |           |  |
|-----------------------------------|---------------|------------------|-------------|------------|------------------------------------------|-------|---|------|-------------|-----|-----------|--|
| Lab Sample ID: 890-3621-A-1-C MSD |               |                  |             |            | Client Sample ID: Matrix Spike Duplicate |       |   |      |             |     |           |  |
| Matrix: Solid                     |               |                  |             |            | Prep Type: Soluble                       |       |   |      |             |     |           |  |
| Analysis Batch: 42176             |               |                  |             |            |                                          |       |   |      |             |     |           |  |
| Analyte                           | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier                            | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |  |
| Chloride                          | 71.0          | F1               | 250         | 292.4      | F1                                       | mg/Kg |   | 89   | 90 - 110    | 0   | 20        |  |

## QC Association Summary

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3622-1  
SDG: 03D2024002

## GC VOA

## Analysis Batch: 42465

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-3622-1    | SS09             | Total/NA  | Solid  | 8021B  | 42482      |

## Prep Batch: 42482

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-3622-1    | SS09             | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 42620

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3622-1    | SS09             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 41840

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3622-1         | SS09                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-41840/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-41840/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-41840/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3624-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3624-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 42076

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3622-1         | SS09                   | Total/NA  | Solid  | 8015B NM | 41840      |
| MB 880-41840/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 41840      |
| LCS 880-41840/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 41840      |
| LCSD 880-41840/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 41840      |
| 890-3624-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 41840      |
| 890-3624-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 41840      |

## Analysis Batch: 42198

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3622-1    | SS09             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 41755

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3622-1         | SS09                   | Soluble   | Solid  | DI Leach |            |
| MB 880-41755/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-41755/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-41755/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-3621-A-1-B MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-3621-A-1-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 42176

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3622-1         | SS09                   | Soluble   | Solid  | 300.0  | 41755      |
| MB 880-41755/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 41755      |
| LCS 880-41755/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 41755      |
| LCSD 880-41755/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 41755      |
| 890-3621-A-1-B MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 41755      |

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QC Association Summary

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3622-1  
SDG: 03D2024002

HPLC/IC (Continued)

Analysis Batch: 42176 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3621-A-1-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 41755      |

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Lab Chronicle

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3622-1  
SDG: 03D2024002

Client Sample ID: SS09  
Date Collected: 12/09/22 11:40  
Date Received: 12/12/22 12:41

Lab Sample ID: 890-3622-1  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 42482        | 12/22/22 09:05       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 42465        | 12/23/22 17:19       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 42620        | 12/26/22 16:44       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 42198        | 12/19/22 15:08       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 41840        | 12/14/22 14:33       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 42076        | 12/17/22 22:10       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 41755        | 12/13/22 13:06       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 42176        | 12/20/22 12:10       | CH      | EET MID |

Laboratory References:  
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3622-1  
SDG: 03D2024002

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-22-25      | 06-30-23        |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte    |
|-----------------|-------------|--------|------------|
| 8015 NM         |             | Solid  | Total TPH  |
| Total BTEX      |             | Solid  | Total BTEX |

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## Method Summary

Client: Ensolum

Job ID: 890-3622-1

Project/Site: Broadcaster 29 Federal 003H

SDG: 03D2024002

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | EET MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | EET MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | EET MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | EET MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | EET MID    |
| 5035        | Closed System Purge and Trap       | SW846    | EET MID    |
| 8015NM Prep | Microextraction                    | SW846    | EET MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | EET MID    |

## Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3622-1  
SDG: 03D2024002

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3622-1    | SS09             | Solid  | 12/09/22 11:40 | 12/12/22 12:41 | 0.5   |

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Environment Testing  
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No.:

www.xenco.com

Page

1 of 1

|                  |                                |                         |                                           |
|------------------|--------------------------------|-------------------------|-------------------------------------------|
| Project Manager: | Kalei Jennings                 | Bill to: (if different) | Kalei Jennings                            |
| Company Name:    | Ensolum, LLC                   | Company Name:           | Ensolum, LLC                              |
| Address:         | 601 N Marientfeld St Suite 400 | Address:                | 601 N Marientfeld St Suite 400            |
| City, State ZIP: | Midland, TX 79701              | City, State ZIP:        | Midland, TX 79701                         |
| Phone:           | 817.683.2503                   | Email:                  | kjennings@ensolum.com, jadams@ensolum.com |

|                                                                                                                                                                                                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Work Order Comments                                                                                                                                                                                  |  |
| Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> |  |
| State of Project:                                                                                                                                                                                    |  |
| Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>                     |  |
| Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:                                                                                                                     |  |

|                          |                                                                     |                                                                           |                      |                  |  |  |  |  |  |  |  |  |  |  |  |                                                 |                                                                   |  |
|--------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------|------------------|--|--|--|--|--|--|--|--|--|--|--|-------------------------------------------------|-------------------------------------------------------------------|--|
| Project Name:            | Broadcaster 29 Federal 003H                                         | Turn Around                                                               | Pres. Code           | ANALYSIS REQUEST |  |  |  |  |  |  |  |  |  |  |  | Preservative Codes                              |                                                                   |  |
| Project Number:          | 03D2024002                                                          | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush |                      |                  |  |  |  |  |  |  |  |  |  |  |  | None: NO                                        | DI Water: H <sub>2</sub> O                                        |  |
| Project Location:        | Lea County, NM                                                      | Due Date:                                                                 |                      |                  |  |  |  |  |  |  |  |  |  |  |  | Cool: Cool                                      | MeOH: Me                                                          |  |
| Sampler's Name:          | Conner Shore                                                        | TAT starts the day received by the lab, if received by 4:30pm             |                      |                  |  |  |  |  |  |  |  |  |  |  |  | HCL: HC                                         | HNO <sub>3</sub> : HN                                             |  |
| PO #:                    |                                                                     |                                                                           |                      |                  |  |  |  |  |  |  |  |  |  |  |  | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> | NaOH: Na                                                          |  |
| SAMPLE RECEIPT           |                                                                     |                                                                           |                      |                  |  |  |  |  |  |  |  |  |  |  |  |                                                 |                                                                   |  |
| Samples Received Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Thermometer ID:                                                           | MAC007               |                  |  |  |  |  |  |  |  |  |  |  |  | H <sub>3</sub> PO <sub>4</sub> : HP             |                                                                   |  |
| Cooler Custody Seals:    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | N/A                                                                       | Correction Factor:   | -0.2             |  |  |  |  |  |  |  |  |  |  |  |                                                 | NaHSO <sub>4</sub> : NABIS                                        |  |
| Sample Custody Seals:    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | N/A                                                                       | Temperature Reading: | 1.2              |  |  |  |  |  |  |  |  |  |  |  |                                                 | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> |  |
| Total Containers:        |                                                                     | Corrected Temperature:                                                    | 1.2                  |                  |  |  |  |  |  |  |  |  |  |  |  | Zn Acetate+NaOH: Zn                             |                                                                   |  |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | # of Cont | CHLOR | TPH (80 | BTEX ( | Sample Comments |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|--------|--------------|--------------|-------|------------|-----------|-------|---------|--------|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| SS09                  | S      | 12.9.22      | 1140         | 0.5'  | G          | 1         | X     | X       | X      | Incident Number |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                       |        |              |              |       |            |           |       |         |        |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245, 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

|                              |                          |                |                              |                          |           |
|------------------------------|--------------------------|----------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time      | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>Cifer</i>                 | <i>Joe Alf</i>           | 12.12.22 12:24 |                              |                          |           |
|                              |                          |                |                              |                          |           |
|                              |                          |                |                              |                          |           |
|                              |                          |                |                              |                          |           |



## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3622-1

SDG Number: 03D2024002

Login Number: 3622

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

| Question                                                                         | Answer | Comment                             |
|----------------------------------------------------------------------------------|--------|-------------------------------------|
| The cooler's custody seal, if present, is intact.                                | True   |                                     |
| Sample custody seals, if present, are intact.                                    | True   |                                     |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |                                     |
| Samples were received on ice.                                                    | True   |                                     |
| Cooler Temperature is acceptable.                                                | True   |                                     |
| Cooler Temperature is recorded.                                                  | True   |                                     |
| COC is present.                                                                  | True   |                                     |
| COC is filled out in ink and legible.                                            | True   |                                     |
| COC is filled out with all pertinent information.                                | True   |                                     |
| Is the Field Sampler's name present on COC?                                      | True   |                                     |
| There are no discrepancies between the containers received and the COC.          | True   |                                     |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |                                     |
| Sample containers have legible labels.                                           | True   |                                     |
| Containers are not broken or leaking.                                            | True   |                                     |
| Sample collection date/times are provided.                                       | True   |                                     |
| Appropriate sample containers are used.                                          | N/A    | Refer to Job Narrative for details. |
| Sample bottles are completely filled.                                            | True   |                                     |
| Sample Preservation Verified.                                                    | N/A    |                                     |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |                                     |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |                                     |

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3622-1

SDG Number: 03D2024002

Login Number: 3622

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 12/13/22 11:24 AM

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified.                                                    | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Kalei Jennings  
Ensolum  
601 N. Marienfeld St.  
Suite 400  
Midland, Texas 79701

Generated 12/27/2022 8:38:04 AM

## JOB DESCRIPTION

BROADCASTER 29 FEDERAL 003H  
SDG NUMBER Lea County NM

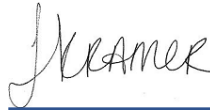
## JOB NUMBER

890-3623-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

**Eurofins Carlsbad****Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

**Authorization**

Generated  
12/27/2022 8:38:04 AM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

Client: Ensolum  
Project/Site: BROADCASTER 29 FEDERAL 003H

Laboratory Job ID: 890-3623-1  
SDG: Lea County NM

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## Definitions/Glossary

Client: Ensolum

Project/Site: BROADCASTER 29 FEDERAL 003H

Job ID: 890-3623-1

SDG: Lea County NM

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

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Case Narrative

Client: Ensolum  
Project/Site: BROADCASTER 29 FEDERAL 003H

Job ID: 890-3623-1  
SDG: Lea County NM

Job ID: 890-3623-1

Laboratory: Eurofins Carlsbad

| Narrative |                             |
|-----------|-----------------------------|
|           | Job Narrative<br>890-3623-1 |

Receipt

The sample was received on 12/12/2022 12:41 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS10 (890-3623-1).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-41840 and analytical batch 880-42076 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-41755 and analytical batch 880-42176 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Client Sample Results

Client: Ensolum  
Project/Site: BROADCASTER 29 FEDERAL 003H

Job ID: 890-3623-1  
SDG: Lea County NM

Client Sample ID: SS10

Lab Sample ID: 890-3623-1

Date Collected: 12/09/22 11:45

Matrix: Solid

Date Received: 12/12/22 12:41

Sample Depth: 0.5

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 14:46 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 14:46 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 14:46 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 14:46 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 14:46 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 14:46 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 132       | S1+       | 70 - 130 | 12/22/22 09:22 | 12/23/22 14:46 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86        |           | 70 - 130 | 12/22/22 09:22 | 12/23/22 14:46 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 12/24/22 08:27 | 1       |

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 12/19/22 15:08 | 1       |

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 12/14/22 14:33 | 12/17/22 13:08 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 12/14/22 14:33 | 12/17/22 13:08 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 12/14/22 14:33 | 12/17/22 13:08 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 120       |           | 70 - 130 | 12/14/22 14:33 | 12/17/22 13:08 | 1       |
| o-Terphenyl    | 113       |           | 70 - 130 | 12/14/22 14:33 | 12/17/22 13:08 | 1       |

## Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <5.03  | U         | 5.03 | mg/Kg |   |          | 12/20/22 12:15 | 1       |

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## Surrogate Summary

Client: Ensolum  
Project/Site: BROADCASTER 29 FEDERAL 003H

Job ID: 890-3623-1  
SDG: Lea County NM

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-3623-1                        | SS10                   | 132 S1+                                        | 86                |
| 890-3625-A-1-C MS                 | Matrix Spike           | 95                                             | 93                |
| 890-3625-A-1-D MSD                | Matrix Spike Duplicate | 98                                             | 95                |
| LCS 880-42483/1-A                 | Lab Control Sample     | 99                                             | 95                |
| LCSD 880-42483/2-A                | Lab Control Sample Dup | 94                                             | 95                |
| MB 880-42420/5-A                  | Method Blank           | 97                                             | 90                |
| MB 880-42483/5-A                  | Method Blank           | 101                                            | 86                |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |                                                |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |                                                |                   |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-3623-1              | SS10                   | 120                                            | 113               |
| 890-3624-A-1-C MS       | Matrix Spike           | 119                                            | 92                |
| 890-3624-A-1-D MSD      | Matrix Spike Duplicate | 106                                            | 92                |
| LCS 880-41840/2-A       | Lab Control Sample     | 109                                            | 103               |
| LCSD 880-41840/3-A      | Lab Control Sample Dup | 106                                            | 114               |
| MB 880-41840/1-A        | Method Blank           | 141 S1+                                        | 140 S1+           |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

## QC Sample Results

Client: Ensolum  
Project/Site: BROADCASTER 29 FEDERAL 003H

Job ID: 890-3623-1  
SDG: Lea County NM

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42420/5-A

Matrix: Solid

Analysis Batch: 42466

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42420

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/21/22 12:40 | 12/22/22 22:51 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/21/22 12:40 | 12/22/22 22:51 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/21/22 12:40 | 12/22/22 22:51 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/21/22 12:40 | 12/22/22 22:51 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/21/22 12:40 | 12/22/22 22:51 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/21/22 12:40 | 12/22/22 22:51 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97           |              | 70 - 130 | 12/21/22 12:40 | 12/22/22 22:51 | 1       |
| 1,4-Difluorobenzene (Surr)  | 90           |              | 70 - 130 | 12/21/22 12:40 | 12/22/22 22:51 | 1       |

Lab Sample ID: MB 880-42483/5-A

Matrix: Solid

Analysis Batch: 42466

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42483

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 09:36 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 09:36 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 09:36 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 09:36 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 09:36 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 09:36 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101          |              | 70 - 130 | 12/22/22 09:22 | 12/23/22 09:36 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86           |              | 70 - 130 | 12/22/22 09:22 | 12/23/22 09:36 | 1       |

Lab Sample ID: LCS 880-42483/1-A

Matrix: Solid

Analysis Batch: 42466

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42483

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.1020     |               | mg/Kg |   | 102  | 70 - 130    |
| Toluene             | 0.100       | 0.09648    |               | mg/Kg |   | 96   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.08974    |               | mg/Kg |   | 90   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1921     |               | mg/Kg |   | 96   | 70 - 130    |
| o-Xylene            | 0.100       | 0.09734    |               | mg/Kg |   | 97   | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 99            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95            |               | 70 - 130 |

Lab Sample ID: LCSD 880-42483/2-A

Matrix: Solid

Analysis Batch: 42466

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42483

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100       | 0.08380     |                | mg/Kg |   | 84   | 70 - 130    | 20  | 35        |

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## QC Sample Results

Client: Ensolum  
Project/Site: BROADCASTER 29 FEDERAL 003H

Job ID: 890-3623-1  
SDG: Lea County NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-42483/2-A

Matrix: Solid

Analysis Batch: 42466

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42483

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Toluene             | 0.100       | 0.07951     |                | mg/Kg |   | 80   | 70 - 130    | 19  | 35        |
| Ethylbenzene        | 0.100       | 0.07270     |                | mg/Kg |   | 73   | 70 - 130    | 21  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1547      |                | mg/Kg |   | 77   | 70 - 130    | 22  | 35        |
| o-Xylene            | 0.100       | 0.07994     |                | mg/Kg |   | 80   | 70 - 130    | 20  | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 94             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95             |                | 70 - 130 |

Lab Sample ID: 890-3625-A-1-C MS

Matrix: Solid

Analysis Batch: 42466

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 42483

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00201      | U                | 0.0996      | 0.08752   |              | mg/Kg |   | 88   | 70 - 130    |
| Toluene             | <0.00201      | U                | 0.0996      | 0.08182   |              | mg/Kg |   | 82   | 70 - 130    |
| Ethylbenzene        | <0.00201      | U                | 0.0996      | 0.07396   |              | mg/Kg |   | 74   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00402      | U                | 0.199       | 0.1562    |              | mg/Kg |   | 78   | 70 - 130    |
| o-Xylene            | <0.00201      | U                | 0.0996      | 0.07911   |              | mg/Kg |   | 79   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 95           |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93           |              | 70 - 130 |

Lab Sample ID: 890-3625-A-1-D MSD

Matrix: Solid

Analysis Batch: 42466

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 42483

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00201      | U                | 0.100       | 0.09585    |               | mg/Kg |   | 96   | 70 - 130    | 9   | 35        |
| Toluene             | <0.00201      | U                | 0.100       | 0.08682    |               | mg/Kg |   | 87   | 70 - 130    | 6   | 35        |
| Ethylbenzene        | <0.00201      | U                | 0.100       | 0.07977    |               | mg/Kg |   | 80   | 70 - 130    | 8   | 35        |
| m-Xylene & p-Xylene | <0.00402      | U                | 0.200       | 0.1658     |               | mg/Kg |   | 83   | 70 - 130    | 6   | 35        |
| o-Xylene            | <0.00201      | U                | 0.100       | 0.08489    |               | mg/Kg |   | 85   | 70 - 130    | 7   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 98            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95            |               | 70 - 130 |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-41840/1-A

Matrix: Solid

Analysis Batch: 42076

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41840

| Analyte                              | MB Result | MB Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 | mg/Kg |   | 12/14/22 14:33 | 12/17/22 08:52 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: BROADCASTER 29 FEDERAL 003H

Job ID: 890-3623-1  
SDG: Lea County NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-41840/1-A

Matrix: Solid

Analysis Batch: 42076

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41840

| Analyte                              | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0           | U               | 50.0     | mg/Kg |   | 12/14/22 14:33 | 12/17/22 08:52 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0           | U               | 50.0     | mg/Kg |   | 12/14/22 14:33 | 12/17/22 08:52 | 1       |
| Surrogate                            | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 141             | S1+             | 70 - 130 |       |   | 12/14/22 14:33 | 12/17/22 08:52 | 1       |
| o-Terphenyl                          | 140             | S1+             | 70 - 130 |       |   | 12/14/22 14:33 | 12/17/22 08:52 | 1       |

Lab Sample ID: LCS 880-41840/2-A

Matrix: Solid

Analysis Batch: 42076

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41840

| Analyte                              | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000             | 890.3            |                  | mg/Kg |   | 89   | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | 1000             | 873.8            |                  | mg/Kg |   | 87   | 70 - 130       |
| Surrogate                            | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |
| 1-Chlorooctane                       | 109              |                  | 70 - 130         |       |   |      |                |
| o-Terphenyl                          | 103              |                  | 70 - 130         |       |   |      |                |

Lab Sample ID: LCSD 880-41840/3-A

Matrix: Solid

Analysis Batch: 42076

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41840

| Analyte                              | Spike<br>Added    | LCSD<br>Result    | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|-------------------|-------------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000              | 927.5             |                   | mg/Kg |   | 93   | 70 - 130       | 4   | 20           |
| Diesel Range Organics (Over C10-C28) | 1000              | 976.8             |                   | mg/Kg |   | 98   | 70 - 130       | 11  | 20           |
| Surrogate                            | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits            |       |   |      |                |     |              |
| 1-Chlorooctane                       | 106               |                   | 70 - 130          |       |   |      |                |     |              |
| o-Terphenyl                          | 114               |                   | 70 - 130          |       |   |      |                |     |              |

Lab Sample ID: 890-3624-A-1-C MS

Matrix: Solid

Analysis Batch: 42076

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 41840

| Analyte                              | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U                   | 999            | 1103         |                 | mg/Kg |   | 110  | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | <50.0            | U                   | 999            | 1025         |                 | mg/Kg |   | 103  | 70 - 130       |
| Surrogate                            | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                |
| 1-Chlorooctane                       | 119              |                     | 70 - 130       |              |                 |       |   |      |                |
| o-Terphenyl                          | 92               |                     | 70 - 130       |              |                 |       |   |      |                |

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## QC Sample Results

Client: Ensolum  
Project/Site: BROADCASTER 29 FEDERAL 003H

Job ID: 890-3623-1  
SDG: Lea County NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3624-A-1-D MSD

Matrix: Solid

Analysis Batch: 42076

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 41840

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 997         | 1074       |               | mg/Kg |   | 108  | 70 - 130    | 3   | 20        |
| Diesel Range Organics (Over C10-C28) | <50.0         | U                | 997         | 1029       |               | mg/Kg |   | 103  | 70 - 130    | 0   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 106           |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 92            |                  | 70 - 130    |            |               |       |   |      |             |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41755/1-A

Matrix: Solid

Analysis Batch: 42176

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 | mg/Kg |   |          | 12/20/22 11:06 | 1       |

Lab Sample ID: LCS 880-41755/2-A

Matrix: Solid

Analysis Batch: 42176

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 229.8      |               | mg/Kg |   | 92   | 90 - 110    |

Lab Sample ID: LCSD 880-41755/3-A

Matrix: Solid

Analysis Batch: 42176

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250         | 230.6       |                | mg/Kg |   | 92   | 90 - 110    | 0   | 20        |

Lab Sample ID: 890-3621-A-1-B MS

Matrix: Solid

Analysis Batch: 42176

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 71.0          | F1               | 250         | 292.0     | F1           | mg/Kg |   | 88   | 90 - 110    |

Lab Sample ID: 890-3621-A-1-C MSD

Matrix: Solid

Analysis Batch: 42176

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 71.0          | F1               | 250         | 292.4      | F1            | mg/Kg |   | 89   | 90 - 110    | 0   | 20        |

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## QC Association Summary

Client: Ensolum  
Project/Site: BROADCASTER 29 FEDERAL 003H

Job ID: 890-3623-1  
SDG: Lea County NM

## GC VOA

## Prep Batch: 42420

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-42420/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 42466

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3623-1         | SS10                   | Total/NA  | Solid  | 8021B  | 42483      |
| MB 880-42420/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 42420      |
| MB 880-42483/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 42483      |
| LCS 880-42483/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 42483      |
| LCSD 880-42483/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 42483      |
| 890-3625-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 42483      |
| 890-3625-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 42483      |

## Prep Batch: 42483

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3623-1         | SS10                   | Total/NA  | Solid  | 5035   |            |
| MB 880-42483/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-42483/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-42483/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-3625-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-3625-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 42579

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3623-1    | SS10             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 41840

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3623-1         | SS10                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-41840/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-41840/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-41840/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3624-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3624-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 42076

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3623-1         | SS10                   | Total/NA  | Solid  | 8015B NM | 41840      |
| MB 880-41840/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 41840      |
| LCS 880-41840/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 41840      |
| LCSD 880-41840/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 41840      |
| 890-3624-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 41840      |
| 890-3624-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 41840      |

## Analysis Batch: 42194

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3623-1    | SS10             | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: BROADCASTER 29 FEDERAL 003H

Job ID: 890-3623-1  
SDG: Lea County NM

## HPLC/IC

## Leach Batch: 41755

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3623-1         | SS10                   | Soluble   | Solid  | DI Leach |            |
| MB 880-41755/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-41755/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-41755/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-3621-A-1-B MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-3621-A-1-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 42176

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3623-1         | SS10                   | Soluble   | Solid  | 300.0  | 41755      |
| MB 880-41755/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 41755      |
| LCS 880-41755/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 41755      |
| LCSD 880-41755/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 41755      |
| 890-3621-A-1-B MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 41755      |
| 890-3621-A-1-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 41755      |

Lab Chronicle

Client: Ensolum  
Project/Site: BROADCASTER 29 FEDERAL 003H

Job ID: 890-3623-1  
SDG: Lea County NM

Client Sample ID: SS10

Lab Sample ID: 890-3623-1

Date Collected: 12/09/22 11:45

Matrix: Solid

Date Received: 12/12/22 12:41

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 42483        | 12/22/22 09:22       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 42466        | 12/23/22 14:46       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 42579        | 12/24/22 08:27       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 42194        | 12/19/22 15:08       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 41840        | 12/14/22 14:33       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 42076        | 12/17/22 13:08       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 41755        | 12/13/22 13:06       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 42176        | 12/20/22 12:15       | CH      | EET MID |

Laboratory References:  
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Accreditation/Certification Summary

Client: Ensolum  
Project/Site: BROADCASTER 29 FEDERAL 003H

Job ID: 890-3623-1  
SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-22-25      | 06-30-23        |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte    |
|-----------------|-------------|--------|------------|
| 8015 NM         |             | Solid  | Total TPH  |
| Total BTEX      |             | Solid  | Total BTEX |

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## Method Summary

Client: Ensolum  
Project/Site: BROADCASTER 29 FEDERAL 003H

Job ID: 890-3623-1  
SDG: Lea County NM

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | EET MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | EET MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | EET MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | EET MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | EET MID    |
| 5035        | Closed System Purge and Trap       | SW846    | EET MID    |
| 8015NM Prep | Microextraction                    | SW846    | EET MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | EET MID    |

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum  
Project/Site: BROADCASTER 29 FEDERAL 003H

Job ID: 890-3623-1  
SDG: Lea County NM

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3623-1    | SS10             | Solid  | 12/09/22 11:45 | 12/12/22 12:41 | 0.5   |

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## Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

**Work Order No:**

Page [www.xenco.com](http://www.xenco.com)Page 1 of 1

|                  |                                |                         |                                           |
|------------------|--------------------------------|-------------------------|-------------------------------------------|
| Project Manager: | Kalei Jennings                 | Bill to: (if different) | Kalei Jennings                            |
| Company Name:    | Ensolum, LLC                   | Company Name:           | Ensolum, LLC                              |
| Address:         | 601 N Marlenfield St Suite 400 | Address:                | 601 N Marlenfield St Suite 400            |
| City, State ZIP: | Midland, TX 79701              | City, State ZIP:        | Midland, TX 79701                         |
| Phone:           | 817.683.2503                   | Email:                  | kjennings@ensolum.com, jadams@ensolum.com |

| Work Order Comments                                                                                                                                                              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>      |  |
| State of Project:                                                                                                                                                                |  |
| Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> |  |
| Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:                                                                                                 |  |

|                          |  |              |  |                        |  |                                                                   |                                                               |                               |
|--------------------------|--|--------------|--|------------------------|--|-------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------|
| Project Name:            |  |              |  |                        |  | Broadcaster 29 Federal 003H                                       | Turn Around                                                   |                               |
| Project Number:          |  |              |  |                        |  | 03D2024002                                                        | <input checked="" type="checkbox"/> Routine                   | <input type="checkbox"/> Rush |
| Project Location:        |  |              |  |                        |  | Lea County, NM                                                    | Due Date:                                                     |                               |
| Sampler's Name:          |  |              |  |                        |  | Conner Shore                                                      | TAT starts the day received by the lab, if received by 4:30pm |                               |
| PO #:                    |  |              |  |                        |  |                                                                   |                                                               |                               |
| SAMPLE RECEIPT           |  | Terms Blank: |  | Yes / No               |  | Wet Ice: Yes / No                                                 |                                                               |                               |
| Samples Received Intact: |  | Yes / No     |  | Thermometer ID:        |  | 7000007                                                           |                                                               |                               |
| Cooler Custody Seals:    |  | Yes / No     |  | N/A                    |  | Correction Factor: -0.2                                           |                                                               |                               |
| Sample Custody Seals:    |  | Yes / No     |  | N/A                    |  | Temperature Reading: 1.2                                          |                                                               |                               |
| Total Containers:        |  |              |  | Corrected Temperature: |  | 1.8                                                               |                                                               |                               |
| Parameters               |  |              |  |                        |  | Pres. Code                                                        |                                                               |                               |
| RIDES (EPA: 300.0)       |  |              |  |                        |  |                                                                   |                                                               |                               |
| 015)                     |  |              |  |                        |  |                                                                   |                                                               |                               |
| 8021                     |  |              |  |                        |  |                                                                   |                                                               |                               |
| ANALYSIS REQUEST         |  |              |  |                        |  |                                                                   |                                                               |                               |
| Preservative Codes       |  |              |  |                        |  | None: NO                                                          | DI Water: H <sub>2</sub> O                                    |                               |
|                          |  |              |  |                        |  | Cool: Cool                                                        | MeOH: Me                                                      |                               |
|                          |  |              |  |                        |  | HCL: HC                                                           | HNO <sub>3</sub> : HN                                         |                               |
|                          |  |              |  |                        |  | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>                   | NaOH: Na                                                      |                               |
|                          |  |              |  |                        |  | H <sub>3</sub> PO <sub>4</sub> : HP                               |                                                               |                               |
|                          |  |              |  |                        |  | NaHSO <sub>4</sub> : NABIS                                        |                                                               |                               |
|                          |  |              |  |                        |  | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NASO <sub>3</sub> |                                                               |                               |
|                          |  |              |  |                        |  | Zn Acetate+NaOH: Zn                                               |                                                               |                               |
|                          |  |              |  |                        |  | NaOH+Ascorbic Acid: SACP                                          |                                                               |                               |

[illegible]

| Total                                                                | 200.7 / 6010 | 200.8 / 6020: |                                                                                               |
|----------------------------------------------------------------------|--------------|---------------|-----------------------------------------------------------------------------------------------|
| 8RCRA                                                                | 13PPM        | Texas 11      | Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn |
| TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U |              |               | Hg: 1631 / 245.1 / 7470 / 7471                                                                |

**Notice:** Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time      | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|----------------|------------------------------|--------------------------|-----------|
| 1 <i>C. J. [Signature]</i>   | <i>C. J. [Signature]</i> | 12.12.22 12:42 |                              |                          |           |
| 3                            |                          | 4              |                              |                          |           |
| 5                            |                          | 6              |                              |                          |           |

Revised Date 08/25/2020 Rev. 2020

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3623-1

SDG Number: Lea County NM

Login Number: 3623

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

| Question                                                                         | Answer | Comment                             |
|----------------------------------------------------------------------------------|--------|-------------------------------------|
| The cooler's custody seal, if present, is intact.                                | True   |                                     |
| Sample custody seals, if present, are intact.                                    | True   |                                     |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |                                     |
| Samples were received on ice.                                                    | True   |                                     |
| Cooler Temperature is acceptable.                                                | True   |                                     |
| Cooler Temperature is recorded.                                                  | True   |                                     |
| COC is present.                                                                  | True   |                                     |
| COC is filled out in ink and legible.                                            | True   |                                     |
| COC is filled out with all pertinent information.                                | True   |                                     |
| Is the Field Sampler's name present on COC?                                      | True   |                                     |
| There are no discrepancies between the containers received and the COC.          | True   |                                     |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |                                     |
| Sample containers have legible labels.                                           | True   |                                     |
| Containers are not broken or leaking.                                            | True   |                                     |
| Sample collection date/times are provided.                                       | True   |                                     |
| Appropriate sample containers are used.                                          | N/A    | Refer to Job Narrative for details. |
| Sample bottles are completely filled.                                            | True   |                                     |
| Sample Preservation Verified.                                                    | N/A    |                                     |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |                                     |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |                                     |

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3623-1

SDG Number: Lea County NM

Login Number: 3623

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 12/13/22 11:24 AM

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified.                                                    | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Kalei Jennings  
Ensolum  
601 N. Marienfeld St.  
Suite 400  
Midland, Texas 79701

Generated 12/27/2022 8:38:27 AM

## JOB DESCRIPTION

Broadcaster 29 Federal 003H  
SDG NUMBER Lea County NM

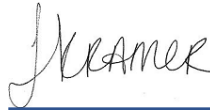
## JOB NUMBER

890-3626-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

**Eurofins Carlsbad****Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

**Authorization**

Generated  
12/27/2022 8:38:27 AM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440



Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Laboratory Job ID: 890-3626-1  
SDG: Lea County NM

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## Definitions/Glossary

Client: Ensolum

Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3626-1

SDG: Lea County NM

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| SQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

Eurofins Carlsbad

## Case Narrative

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3626-1  
SDG: Lea County NM

**Job ID: 890-3626-1**

**Laboratory: Eurofins Carlsbad**

### Narrative

#### Job Narrative 890-3626-1

#### Receipt

The sample was received on 12/12/2022 12:41 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

#### Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS08 (890-3626-1).

#### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC Semi VOA

Method 8015MOD\_NM: The method blank for preparation batch 880-41841 and analytical batch 880-42076 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Client Sample Results

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3626-1  
SDG: Lea County NM

Client Sample ID: SS08

Lab Sample ID: 890-3626-1

Date Collected: 12/09/22 11:35

Matrix: Solid

Date Received: 12/12/22 12:41

Sample Depth: 0.5'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 15:06 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 15:06 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 15:06 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 15:06 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 15:06 | 1       |
| Xylenes, Total      | <0.00397 | U         | 0.00397 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 15:06 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 133       | S1+       | 70 - 130 | 12/22/22 09:22 | 12/23/22 15:06 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91        |           | 70 - 130 | 12/22/22 09:22 | 12/23/22 15:06 | 1       |

## Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 | mg/Kg |   |          | 12/24/22 08:27 | 1       |

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 12/19/22 15:08 | 1       |

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 12/14/22 14:38 | 12/17/22 23:59 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 12/14/22 14:38 | 12/17/22 23:59 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 12/14/22 14:38 | 12/17/22 23:59 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 106       |           | 70 - 130 | 12/14/22 14:38 | 12/17/22 23:59 | 1       |
| o-Terphenyl    | 104       |           | 70 - 130 | 12/14/22 14:38 | 12/17/22 23:59 | 1       |

## Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 38.1   |           | 5.00 | mg/Kg |   |          | 12/20/22 13:44 | 1       |

Eurofins Carlsbad

## Surrogate Summary

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3626-1  
SDG: Lea County NM

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-3625-A-1-C MS                 | Matrix Spike           | 95                                             | 93                |
| 890-3625-A-1-D MSD                | Matrix Spike Duplicate | 98                                             | 95                |
| 890-3626-1                        | SS08                   | 133 S1+                                        | 91                |
| LCS 880-42483/1-A                 | Lab Control Sample     | 99                                             | 95                |
| LCSD 880-42483/2-A                | Lab Control Sample Dup | 94                                             | 95                |
| MB 880-42420/5-A                  | Method Blank           | 97                                             | 90                |
| MB 880-42483/5-A                  | Method Blank           | 101                                            | 86                |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |                                                |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |                                                |                   |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-3626-1              | SS08                   | 106                                            | 104               |
| 890-3626-1 MS           | SS08                   | 104                                            | 88                |
| 890-3626-1 MSD          | SS08                   | 108                                            | 89                |
| LCS 880-41841/2-A       | Lab Control Sample     | 112                                            | 124               |
| LCSD 880-41841/3-A      | Lab Control Sample Dup | 120                                            | 116               |
| MB 880-41841/1-A        | Method Blank           | 115                                            | 121               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

## QC Sample Results

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3626-1  
SDG: Lea County NM

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42420/5-A

Matrix: Solid

Analysis Batch: 42466

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42420

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/21/22 12:40 | 12/22/22 22:51 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/21/22 12:40 | 12/22/22 22:51 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/21/22 12:40 | 12/22/22 22:51 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/21/22 12:40 | 12/22/22 22:51 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/21/22 12:40 | 12/22/22 22:51 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/21/22 12:40 | 12/22/22 22:51 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97           |              | 70 - 130 | 12/21/22 12:40 | 12/22/22 22:51 | 1       |
| 1,4-Difluorobenzene (Surr)  | 90           |              | 70 - 130 | 12/21/22 12:40 | 12/22/22 22:51 | 1       |

Lab Sample ID: MB 880-42483/5-A

Matrix: Solid

Analysis Batch: 42466

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42483

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 09:36 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 09:36 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 09:36 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 09:36 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 09:36 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 12/22/22 09:22 | 12/23/22 09:36 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101          |              | 70 - 130 | 12/22/22 09:22 | 12/23/22 09:36 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86           |              | 70 - 130 | 12/22/22 09:22 | 12/23/22 09:36 | 1       |

Lab Sample ID: LCS 880-42483/1-A

Matrix: Solid

Analysis Batch: 42466

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42483

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.1020     |               | mg/Kg |   | 102  | 70 - 130    |
| Toluene             | 0.100       | 0.09648    |               | mg/Kg |   | 96   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.08974    |               | mg/Kg |   | 90   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1921     |               | mg/Kg |   | 96   | 70 - 130    |
| o-Xylene            | 0.100       | 0.09734    |               | mg/Kg |   | 97   | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 99            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95            |               | 70 - 130 |

Lab Sample ID: LCSD 880-42483/2-A

Matrix: Solid

Analysis Batch: 42466

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42483

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100       | 0.08380     |                | mg/Kg |   | 84   | 70 - 130    | 20  | 35        |

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## QC Sample Results

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3626-1  
SDG: Lea County NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-42483/2-A

Matrix: Solid

Analysis Batch: 42466

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42483

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Toluene             | 0.100       | 0.07951     |                | mg/Kg |   | 80   | 70 - 130    | 19  | 35        |
| Ethylbenzene        | 0.100       | 0.07270     |                | mg/Kg |   | 73   | 70 - 130    | 21  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1547      |                | mg/Kg |   | 77   | 70 - 130    | 22  | 35        |
| o-Xylene            | 0.100       | 0.07994     |                | mg/Kg |   | 80   | 70 - 130    | 20  | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 94             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95             |                | 70 - 130 |

Lab Sample ID: 890-3625-A-1-C MS

Matrix: Solid

Analysis Batch: 42466

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 42483

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00201      | U                | 0.0996      | 0.08752   |              | mg/Kg |   | 88   | 70 - 130    |
| Toluene             | <0.00201      | U                | 0.0996      | 0.08182   |              | mg/Kg |   | 82   | 70 - 130    |
| Ethylbenzene        | <0.00201      | U                | 0.0996      | 0.07396   |              | mg/Kg |   | 74   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00402      | U                | 0.199       | 0.1562    |              | mg/Kg |   | 78   | 70 - 130    |
| o-Xylene            | <0.00201      | U                | 0.0996      | 0.07911   |              | mg/Kg |   | 79   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 95           |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93           |              | 70 - 130 |

Lab Sample ID: 890-3625-A-1-D MSD

Matrix: Solid

Analysis Batch: 42466

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 42483

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00201      | U                | 0.100       | 0.09585    |               | mg/Kg |   | 96   | 70 - 130    | 9   | 35        |
| Toluene             | <0.00201      | U                | 0.100       | 0.08682    |               | mg/Kg |   | 87   | 70 - 130    | 6   | 35        |
| Ethylbenzene        | <0.00201      | U                | 0.100       | 0.07977    |               | mg/Kg |   | 80   | 70 - 130    | 8   | 35        |
| m-Xylene & p-Xylene | <0.00402      | U                | 0.200       | 0.1658     |               | mg/Kg |   | 83   | 70 - 130    | 6   | 35        |
| o-Xylene            | <0.00201      | U                | 0.100       | 0.08489    |               | mg/Kg |   | 85   | 70 - 130    | 7   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 98            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95            |               | 70 - 130 |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-41841/1-A

Matrix: Solid

Analysis Batch: 42076

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41841

| Analyte                              | MB Result | MB Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 | mg/Kg |   | 12/14/22 14:38 | 12/17/22 22:54 | 1       |

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## QC Sample Results

Client: Ensolum

Job ID: 890-3626-1

Project/Site: Broadcaster 29 Federal 003H

SDG: Lea County NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-41841/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 42076

Prep Batch: 41841

| Analyte                              | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0           | U               | 50.0     | mg/Kg |   | 12/14/22 14:38 | 12/17/22 22:54 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0           | U               | 50.0     | mg/Kg |   | 12/14/22 14:38 | 12/17/22 22:54 | 1       |
| Surrogate                            | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 115             |                 | 70 - 130 |       |   | 12/14/22 14:38 | 12/17/22 22:54 | 1       |
| o-Terphenyl                          | 121             |                 | 70 - 130 |       |   | 12/14/22 14:38 | 12/17/22 22:54 | 1       |

Lab Sample ID: LCS 880-41841/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 42076

Prep Batch: 41841

| Analyte                              | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000             | 1190             |                  | mg/Kg |   | 119  | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | 1000             | 1036             |                  | mg/Kg |   | 104  | 70 - 130       |
| Surrogate                            | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |
| 1-Chlorooctane                       | 112              |                  | 70 - 130         |       |   |      |                |
| o-Terphenyl                          | 124              |                  | 70 - 130         |       |   |      |                |

Lab Sample ID: LCSD 880-41841/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 42076

Prep Batch: 41841

| Analyte                              | Spike<br>Added    | LCSD<br>Result    | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|-------------------|-------------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000              | 1158              |                   | mg/Kg |   | 116  | 70 - 130       | 3   | 20           |
| Diesel Range Organics (Over C10-C28) | 1000              | 967.1             |                   | mg/Kg |   | 97   | 70 - 130       | 7   | 20           |
| Surrogate                            | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits            |       |   |      |                |     |              |
| 1-Chlorooctane                       | 120               |                   | 70 - 130          |       |   |      |                |     |              |
| o-Terphenyl                          | 116               |                   | 70 - 130          |       |   |      |                |     |              |

Lab Sample ID: 890-3626-1 MS

Client Sample ID: SS08

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 42076

Prep Batch: 41841

| Analyte                              | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U                   | 999            | 817.4        |                 | mg/Kg |   | 80   | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | <50.0            | U                   | 999            | 960.5        |                 | mg/Kg |   | 96   | 70 - 130       |
| Surrogate                            | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                |
| 1-Chlorooctane                       | 104              |                     | 70 - 130       |              |                 |       |   |      |                |
| o-Terphenyl                          | 88               |                     | 70 - 130       |              |                 |       |   |      |                |

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## QC Sample Results

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3626-1  
SDG: Lea County NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3626-1 MSD

Matrix: Solid

Analysis Batch: 42076

Client Sample ID: SS08

Prep Type: Total/NA

Prep Batch: 41841

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 997         | 906.8      |               | mg/Kg |   | 89   | 70 - 130    | 10  | 20        |
| Diesel Range Organics (Over C10-C28) | <50.0         | U                | 997         | 986.4      |               | mg/Kg |   | 99   | 70 - 130    | 3   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 108           |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 89            |                  | 70 - 130    |            |               |       |   |      |             |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41755/1-A

Matrix: Solid

Analysis Batch: 42176

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 | mg/Kg |   |          | 12/20/22 11:06 | 1       |

Lab Sample ID: LCS 880-41755/2-A

Matrix: Solid

Analysis Batch: 42176

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 229.8      |               | mg/Kg |   | 92   | 90 - 110    |

Lab Sample ID: LCSD 880-41755/3-A

Matrix: Solid

Analysis Batch: 42176

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250         | 230.6       |                | mg/Kg |   | 92   | 90 - 110    | 0   | 20        |

Lab Sample ID: 890-3625-A-6-B MS

Matrix: Solid

Analysis Batch: 42176

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 143           |                  | 248         | 365.1     |              | mg/Kg |   | 90   | 90 - 110    |

Lab Sample ID: 890-3625-A-6-C MSD

Matrix: Solid

Analysis Batch: 42176

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 143           |                  | 248         | 365.7      |               | mg/Kg |   | 90   | 90 - 110    | 0   | 20        |

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## QC Association Summary

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3626-1  
SDG: Lea County NM

## GC VOA

## Prep Batch: 42420

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-42420/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 42466

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3626-1         | SS08                   | Total/NA  | Solid  | 8021B  | 42483      |
| MB 880-42420/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 42420      |
| MB 880-42483/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 42483      |
| LCS 880-42483/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 42483      |
| LCSD 880-42483/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 42483      |
| 890-3625-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 42483      |
| 890-3625-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 42483      |

## Prep Batch: 42483

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3626-1         | SS08                   | Total/NA  | Solid  | 5035   |            |
| MB 880-42483/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-42483/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-42483/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-3625-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-3625-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 42580

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3626-1    | SS08             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 41841

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3626-1         | SS08                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-41841/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-41841/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-41841/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3626-1 MS      | SS08                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-3626-1 MSD     | SS08                   | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 42076

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3626-1         | SS08                   | Total/NA  | Solid  | 8015B NM | 41841      |
| MB 880-41841/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 41841      |
| LCS 880-41841/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 41841      |
| LCSD 880-41841/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 41841      |
| 890-3626-1 MS      | SS08                   | Total/NA  | Solid  | 8015B NM | 41841      |
| 890-3626-1 MSD     | SS08                   | Total/NA  | Solid  | 8015B NM | 41841      |

## Analysis Batch: 42199

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3626-1    | SS08             | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3626-1  
SDG: Lea County NM

## HPLC/IC

## Leach Batch: 41755

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3626-1         | SS08                   | Soluble   | Solid  | DI Leach |            |
| MB 880-41755/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-41755/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-41755/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-3625-A-6-B MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-3625-A-6-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 42176

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3626-1         | SS08                   | Soluble   | Solid  | 300.0  | 41755      |
| MB 880-41755/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 41755      |
| LCS 880-41755/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 41755      |
| LCSD 880-41755/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 41755      |
| 890-3625-A-6-B MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 41755      |
| 890-3625-A-6-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 41755      |

Lab Chronicle

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3626-1  
SDG: Lea County NM

Client Sample ID: SS08  
Date Collected: 12/09/22 11:35  
Date Received: 12/12/22 12:41

Lab Sample ID: 890-3626-1  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.04 g         | 5 mL         | 42483        | 12/22/22 09:22       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 42466        | 12/23/22 15:06       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 42580        | 12/24/22 08:27       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 42199        | 12/19/22 15:08       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 41841        | 12/14/22 14:38       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 42076        | 12/17/22 23:59       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 41755        | 12/13/22 13:06       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 42176        | 12/20/22 13:44       | CH      | EET MID |

Laboratory References:  
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3626-1  
SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-22-25      | 06-30-23        |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte    |
|-----------------|-------------|--------|------------|
| 8015 NM         |             | Solid  | Total TPH  |
| Total BTEX      |             | Solid  | Total BTEX |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Method Summary

Client: Ensolum

Job ID: 890-3626-1

Project/Site: Broadcaster 29 Federal 003H

SDG: Lea County NM

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | EET MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | EET MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | EET MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | EET MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | EET MID    |
| 5035        | Closed System Purge and Trap       | SW846    | EET MID    |
| 8015NM Prep | Microextraction                    | SW846    | EET MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | EET MID    |

## Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Sample Summary

Client: Ensolum  
Project/Site: Broadcaster 29 Federal 003H

Job ID: 890-3626-1  
SDG: Lea County NM

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3626-1    | SS08             | Solid  | 12/09/22 11:35 | 12/12/22 12:41 | 0.5'  |

- 1
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- 12
- 13
- 14

Revised Date: 08/25/2020 Rev. 2020 1



## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3626-1

SDG Number: Lea County NM

Login Number: 3626

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

| Question                                                                         | Answer | Comment                             |
|----------------------------------------------------------------------------------|--------|-------------------------------------|
| The cooler's custody seal, if present, is intact.                                | True   |                                     |
| Sample custody seals, if present, are intact.                                    | True   |                                     |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |                                     |
| Samples were received on ice.                                                    | True   |                                     |
| Cooler Temperature is acceptable.                                                | True   |                                     |
| Cooler Temperature is recorded.                                                  | True   |                                     |
| COC is present.                                                                  | True   |                                     |
| COC is filled out in ink and legible.                                            | True   |                                     |
| COC is filled out with all pertinent information.                                | True   |                                     |
| Is the Field Sampler's name present on COC?                                      | True   |                                     |
| There are no discrepancies between the containers received and the COC.          | True   |                                     |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |                                     |
| Sample containers have legible labels.                                           | True   |                                     |
| Containers are not broken or leaking.                                            | True   |                                     |
| Sample collection date/times are provided.                                       | True   |                                     |
| Appropriate sample containers are used.                                          | N/A    | Refer to Job Narrative for details. |
| Sample bottles are completely filled.                                            | True   |                                     |
| Sample Preservation Verified.                                                    | N/A    |                                     |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |                                     |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |                                     |

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3626-1

SDG Number: Lea County NM

Login Number: 3626

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 12/13/22 11:24 AM

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified.                                                    | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |



APPENDIX B

Final C-141

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2132773092 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

Release Notification

Responsible Party

|                         |                              |
|-------------------------|------------------------------|
| Responsible Party       | OGRID                        |
| Contact Name            | Contact Telephone            |
| Contact email           | Incident # (assigned by OCD) |
| Contact mailing address |                              |

Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

|                         |                      |
|-------------------------|----------------------|
| Site Name               | Site Type            |
| Date Release Discovered | API# (if applicable) |

|             |         |          |       |        |
|-------------|---------|----------|-------|--------|
| Unit Letter | Section | Township | Range | County |
|             |         |          |       |        |

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

|                                           |                                                                                |                                                          |
|-------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------|
| <input type="checkbox"/> Crude Oil        | Volume Released (bbls)                                                         | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Produced Water   | Volume Released (bbls)                                                         | Volume Recovered (bbls)                                  |
|                                           | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate       | Volume Released (bbls)                                                         | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Natural Gas      | Volume Released (Mcf)                                                          | Volume Recovered (Mcf)                                   |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units)                                         | Volume/Weight Recovered (provide units)                  |

Cause of Release

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2132773092 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

|                                                                                                                            |                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input type="checkbox"/> Yes <input type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?               |                                                                                      |

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <input type="checkbox"/> The source of the release has been stopped.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |
| <input type="checkbox"/> The impacted area has been secured to protect human health and the environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |
| <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                         |
| <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |
| If all the actions described above have <u>not</u> been undertaken, explain why:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. |                         |
| Printed Name: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Title: _____            |
| Signature: <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Date: _____             |
| email: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Telephone: _____        |
| <b><u>OCD Only</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |
| Received by: <u>Ramona Marcus</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Date: <u>11/29/2021</u> |

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 63506

CONDITIONS

|                                                                           |                                                           |
|---------------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 | OGRID:<br>229137                                          |
|                                                                           | Action Number:<br>63506                                   |
|                                                                           | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| marcus     | None      | 11/29/2021     |

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2132773092 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|                                                                                                                                                                                                 |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release?                                                                                                           | <u>&gt;100</u> (ft bgs)                                             |
| Did this release impact groundwater or surface water?                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?                                                                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?                                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist: Each of the following items must be included in the report.**

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2132773092 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: \_\_\_Charles Beauvais\_\_\_\_\_

Title: \_Senior Environmental Engineer\_\_\_\_\_

Signature: Charles R. Beauvais II

Date: \_\_12/28/2022\_\_\_\_\_

email: \_Charles.R.Beauvais@conocophillips.com \_\_\_\_\_

Telephone: \_\_575-988-2043\_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon

Date: 12/28/2022



|                |                |
|----------------|----------------|
| Incident ID    | NAPP2132773092 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist: Each of the following items must be included in the closure report.**

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Charles Beauvais

Title: Senior Environmental Engineer

Signature: Charles R. Beauvais

Date: 12/28/2022

email: Charles.R.Beauvais@conocophillips.com

Telephone: 575-988-2043

**OCD Only**

Received by: Jocelyn Harimon

Date: 12/28/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

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 Department

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2201938653 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Release Notification

### Responsible Party

|                         |                                                |                              |                |
|-------------------------|------------------------------------------------|------------------------------|----------------|
| Responsible Party       | COG Operating, LLC                             | OGRID                        | 229137         |
| Contact Name            | Kelsy Waggaman                                 | Contact Telephone            | (432) 688-9057 |
| Contact email           | Kelsy.Waggaman@ConocoPhillips.com              | Incident # (assigned by OCD) | NAPP2201938653 |
| Contact mailing address | 600 West Illinois Avenue, Midland, Texas 79701 |                              |                |

### Location of Release Source

Latitude 32.28158 Longitude -103.49006  
(NAD 83 in decimal degrees to 5 decimal places)

|                         |                             |                      |              |
|-------------------------|-----------------------------|----------------------|--------------|
| Site Name               | Broadcaster 29 Federal 003H | Site Type            | Tank Battery |
| Date Release Discovered | January 4, 2022             | API# (if applicable) |              |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| B           | 29      | 23S      | 34E   | Lea    |

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Limestone Basin Prop Ranch, LLC)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

|                                               |                                                                                |                                                          |
|-----------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------|
| <input checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) <b>0.2</b>                                              | Volume Recovered (bbls) <b>0</b>                         |
| <input type="checkbox"/> Produced Water       | Volume Released (bbls)                                                         | Volume Recovered (bbls)                                  |
|                                               | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate           | Volume Released (bbls)                                                         | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Natural Gas          | Volume Released (Mcf)                                                          | Volume Recovered (Mcf)                                   |
| <input type="checkbox"/> Other (describe)     | Volume/Weight Released (provide units)                                         | Volume/Weight Recovered (provide units)                  |

#### Cause of Release

The release was caused by a oil to flare event.

No fluid was recovered due to the fire burning off and standing fluid. The release resulted in a flare fire on and off pad.

State of New Mexico  
Oil Conservation Division

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2201938653 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

|                                                                                                                                                                                                                                                                   |                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                             | If YES, for what reason(s) does the responsible party consider this a major release?<br><b>The release involved a fire.</b> |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br><b>Immediate notice was given by Kelsy Waggaman via e-mail January 5, 2022 at 6:00 pm to BLM_NM_CFO_Spill@blm.gov and ocd.enviro@state.nm.us.</b> |                                                                                                                             |

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.                                                                                                                                                                                                                                                                                               |                                        |
| If all the actions described above have <u>not</u> been undertaken, explain why:<br><br><br><br><br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. |                                        |
| Printed Name: <b>Brittany N. Esparza</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Title: <b>Environmental Technician</b> |
| Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date: <b>1/19/2022</b>                 |
| email: <b>Brittany.Esparza@ConocoPhillips.com</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Telephone: <b>(432) 221-0398</b>       |
| <b><u>OCD Only</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |
| Received by: <b>Ramona Marcus</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Date: <b>1/19/2022</b>                 |

## L48 Spill Volume Estimate Form

Page 3 of 4

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |                |                               |                                      |                                        |                                                 |                                              |                                                                |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------|-------------------------------|--------------------------------------|----------------------------------------|-------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|
| Received by OCD: 1/19/2022 10:51:59 AM                   | Facility Name & Number                                                                                                                                                                                                                                                                                                                                                               | BROADCASTER 29 FED 3H BATTERY / LEASE #NM092199 / API #30-025-41909 |                |                               |                                      |                                        |                                                 |                                              |                                                                |
| Asset Area                                               | NDBE                                                                                                                                                                                                                                                                                                                                                                                 |                                                                     |                |                               |                                      |                                        |                                                 |                                              |                                                                |
| Release Discovery Date & Time                            | 1-4-2021 @ 10:28AM                                                                                                                                                                                                                                                                                                                                                                   |                                                                     | NAPP2201938653 |                               |                                      |                                        |                                                 |                                              |                                                                |
| Release Type                                             | Oil                                                                                                                                                                                                                                                                                                                                                                                  |                                                                     |                |                               |                                      |                                        |                                                 |                                              |                                                                |
| Provide any known details about the event                | Found that the regulator that supplies the pneumatic oil dump froze. This did not allow supply gas to enter the dump causing the dump to be inoperable. A few months back we made modifications to the battery. Some of the modifications included adding high liquid level kills to each ke and heater. During this upset condition we failed to receive an alarm notifying us that |                                                                     |                |                               |                                      |                                        |                                                 |                                              |                                                                |
| Spill Calculation - Subsurface Spill - Rectangle         |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |                |                               |                                      |                                        |                                                 |                                              |                                                                |
| Was the release on pad or off-pad?                       |                                                                                                                                                                                                                                                                                                                                                                                      | See reference table below                                           |                |                               |                                      |                                        |                                                 |                                              |                                                                |
| Has it rained at least a half inch in the last 24 hours? |                                                                                                                                                                                                                                                                                                                                                                                      | See reference table below                                           |                |                               |                                      |                                        |                                                 |                                              |                                                                |
| Convert irregular shape into a series of rectangles      | Length (ft.)                                                                                                                                                                                                                                                                                                                                                                         | Width (ft.)                                                         | Depth (in.)    | Soil Spilled-Fluid Saturation | Estimated volume of each area (bbl.) | Total Estimated Volume of Spill (bbl.) | Percentage of Oil if Spilled Fluid is a Mixture | Total Estimated Volume of Spilled Oil (bbl.) | Total Estimated Volume of Spilled Liquid other than Oil (bbl.) |
| Rectangle A                                              | 80.0                                                                                                                                                                                                                                                                                                                                                                                 | 40.0                                                                | 0.03           | 15.16%                        | 1.486                                | 0.225                                  |                                                 |                                              |                                                                |
| Rectangle B                                              |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |                |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle C                                              |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |                |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle D                                              |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |                |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle E                                              |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |                |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle F                                              |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |                |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle G                                              |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |                |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle H                                              |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |                |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle I                                              |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |                |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle J                                              |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |                |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Total Volume Release:                                    |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |                |                               |                                      | 0.225                                  |                                                 |                                              |                                                                |

Released to Imaging: 1/19/2022 8:16:48 PM

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 73462

**CONDITIONS**

|                                                                           |                                                           |
|---------------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 | OGRID:<br>229137                                          |
|                                                                           | Action Number:<br>73462                                   |
|                                                                           | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| rmarcus    | None      | 1/19/2022      |

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2201938653 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|                                                                                                                                                                                                 |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release?                                                                                                           | <u>&gt;100</u> (ft bgs)                                             |
| Did this release impact groundwater or surface water?                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?                                                                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?                                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

Page 4

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2201938653 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: \_\_\_Charles Beauvais\_\_\_\_\_

Title: \_Senior Environmental Engineer\_\_\_\_\_

Signature: Charles R. Beauvais

Date: \_\_12/28/2022\_\_\_\_\_

email: \_Charles.R.Beauvais@conocophillips.com \_\_\_\_\_

Telephone: \_\_575-988-2043\_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_Jocelyn Harimon\_\_\_\_\_

Date: \_\_12/28/2022\_\_\_\_\_



|                |                |
|----------------|----------------|
| Incident ID    | NAPP2201938653 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Charles Beauvais

Title: Senior Environmental Engineer

Signature: Charles R. Beauvais

Date: 12/28/2022

email: Charles.R.Beauvais@conocophillips.com

Telephone: 575-988-2043

**OCD Only**

Received by: Jocelyn Harimon

Date: 12/28/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 01/24/2023

Printed Name: Jennifer Nobui

Title: Environmental Specialist A



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 170747

CONDITIONS

|                                                                               |                                                               |
|-------------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br><br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 | OGRID:<br><br>229137                                          |
|                                                                               | Action Number:<br><br>170747                                  |
|                                                                               | Action Type:<br><br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition                                                                       | Condition Date |
|------------|---------------------------------------------------------------------------------|----------------|
| jnobui     | Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A. | 1/24/2023      |