



March 24, 2023

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
Battle Axe CTB
Incident Number NAPP2300341479
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of ConocoPhillips Company (COP), has prepared this *Closure Request* to document assessment and soil sampling activities performed at the Battle Axe CTB (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil within a lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, COP is submitting this *Closure Request*, describing Site assessment and delineation activities that have occurred and requesting no further action and closure for Incident Number NAPP2300341479.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 27, Township 26 South, Range 32 East, in Lea County, New Mexico (32.0188°, -103.6561°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On December 25, 2022, a leak from the flare scrubber resulted in the release of approximately 7.9 barrels (bbls) of crude oil into the lined containment. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately all 7.9 bbls of crude oil were recovered. COP reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD) on December 25, 2022 and submitted a *Release Notification Form C-141* (Form C-141) on January 3, 2023. The release was assigned Incident Number NAPP2300341479.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized for applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-03595 POD 1, located approximately 1.6 miles west of the Site. The groundwater well has a reported depth to groundwater of

180 feet bgs and a total depth of 280 feet bgs. Ground surface elevation at the groundwater well location is 3,138 feet above mean sea level (amsl), which is approximately 18 feet higher in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is Red Hills Draw, located approximately 1.27 miles northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

A 48-hour advance notice of the liner inspection was provided via email on January 16, 2023, to the NMOCD. A liner integrity inspection was conducted by Ensolum personnel on January 18, 2023. Upon inspection, the liner was determined to be insufficient. One Borehole (BH01) was advanced via hand auger near the location of the tear in the liner to assess the vertical extent of potentially impacted soil. Three discrete delineation soil samples were collected from the borehole (BH01/BH01A/BH01B) at depths ranging from 0.5 feet to 4 feet bgs.

Soil from the borehole delineation samples was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations from the borehole were documented on a lithologic/soil sampling log, which is included as Appendix B. The borehole was backfilled with the soil removed and COP repaired the tear in the liner.

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 analyses of the following constituents 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.

On February 17, 2023, Ensolum personnel visited the Site to evaluate the release extent. Four delineation soil samples (SS01 through SS04) were collected around the lined containment at 0.5 feet bgs to confirm the lateral extent of the release. The delineation soil samples were handled and analyzed following the same procedures as described above. The delineation soil sample locations are depicted on Figure 2. Photographic documentation was conducted at the Site. A photographic log is included in Appendix C.



ConocoPhillips Company
Closure Request
Battle Axe CTB

March 24, 2023

Page 3

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples, SS01 through SS04 and BH01, BH01A, and BH01B, collected at depths ranging from 0.5 feet to 4 feet bgs, indicated all COC concentrations were compliant with the Closure Criteria and successfully define the vertical extent of the release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Following the failed liner integrity inspection at the Site, Ensolum personnel advanced one borehole (BH01) at the location of the tear in the liner to assess for the presence or absence of impacted soil resulting from the December 25, 2022, crude oil release within the lined containment. Three delineation soil samples were collected from borehole BH01, at depths ranging from 0.5 feet to 4 feet bgs. Laboratory analytical results for the delineation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria and the most stringent Table I Closure Criteria. Additionally, laboratory analytical results for soil samples SS01 through SS04, collected around the containment, were compliant with the most stringent Table I Closure Criteria. The release was contained laterally within the lined containment. The tear in the liner was subsequently repaired.

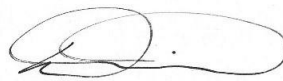
Based on initial response efforts, absence of elevated field screening results, and soil sample laboratory analytical results compliant with the Closure Criteria directly beneath the tear in the liner, COP respectfully requests closure for Incident Number NAPP2300341479.

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

Sincerely,
Ensolum, LLC



Hadlie Green
Staff Geologist



Daniel R. Moir, PG
Senior Managing Geologist

cc: Charles Beauvais, ConocoPhillips Company
Jacob Laird, ConocoPhillips Company
Bureau of Land Management

ConocoPhillips Company
Closure Request
Battle Axe CTB

March 24, 2023

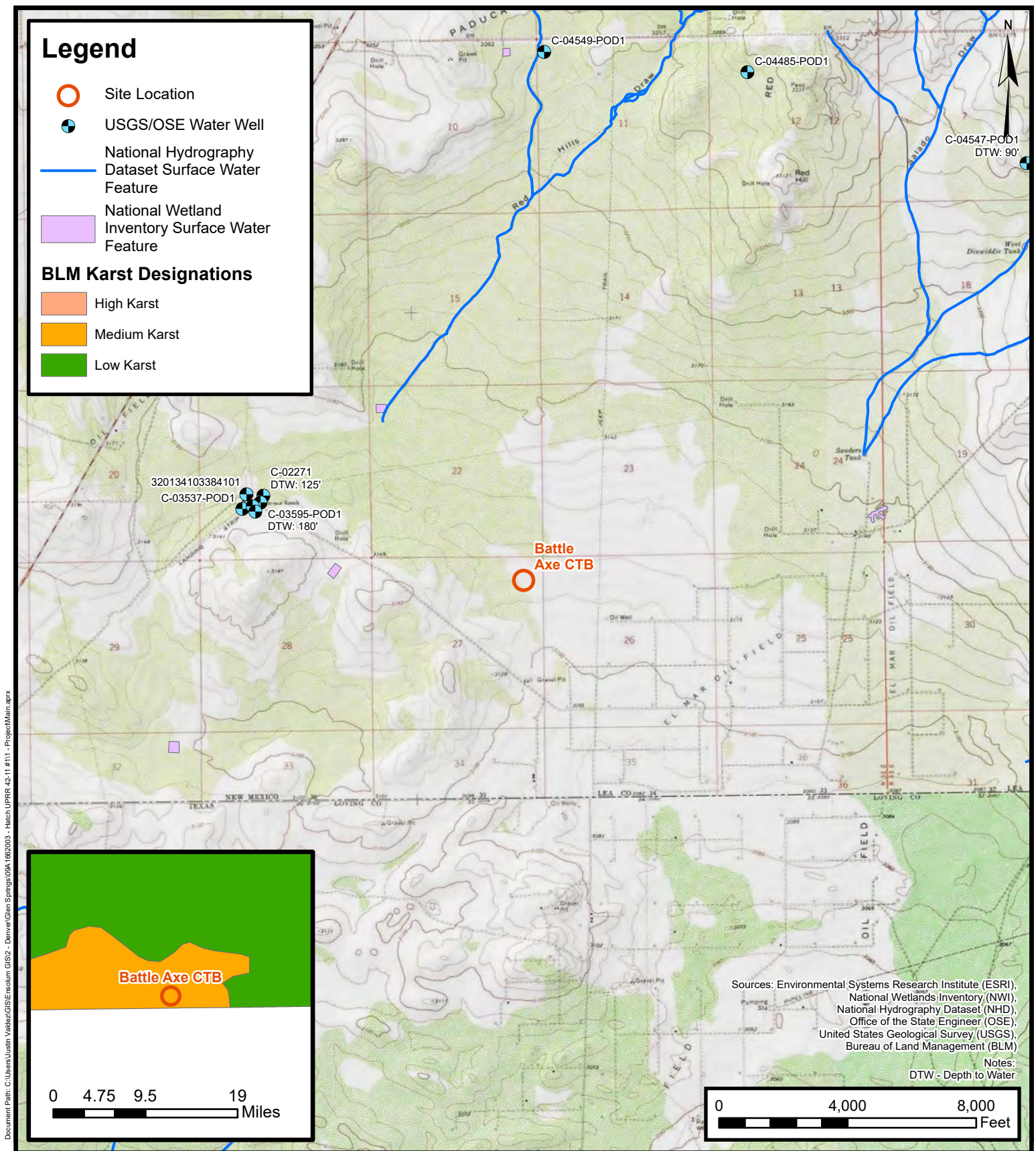
Page 4

Appendices:

| | |
|------------|--|
| Figure 1 | Site Receptor Map |
| Figure 2 | Delineation Soil Sample Locations |
| Table 1 | Soil Sample Analytical Results |
| Appendix A | Referenced Well Records |
| Appendix B | Lithologic/Soil Sampling Log |
| Appendix C | Photographic Log |
| Appendix D | Laboratory Analytical Reports & Chain-of-Custody Documentation |
| Appendix E | NMOCD Notifications |
| Appendix F | Final C-141 |



FIGURES



Legend



Delineation Soil Sample
in Compliance with
Closure Criteria



SS01@0.5'
BH01@0.5'
BH01A@1'
BH01B@4'
SS04@0.5'
SS02@0.5'
SS03@0.5'

Notes:
Sample ID @ Depth Below Ground Surface

0 30 60
Feet

Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

Battle Axe CTB
ConocoPhillips Company
Incident Number: NAPP2300341479
Unit A, Section 27, T26S, R32E
Lea County, New Mexico

FIGURE

2



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Battle Axe CTB
 ConocoPhillips Company
 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 I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| Delineation Soil Samples | | | | | | | | | | |
| SS01 | 02/17/2023 | 0.5 | <0.00200 | <0.00399 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 55.1 |
| SS02 | 02/17/2023 | 0.5 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 99.0 |
| SS03 | 02/17/2023 | 0.5 | <0.00198 | <0.00396 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 60.1 |
| SS04 | 02/17/2023 | 0.5 | <0.00199 | <0.00398 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 27.2 |
| BH01 | 02/03/2023 | 0.5 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 25.5 |
| BH01A | 02/03/2023 | 1 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 142 |
| BH01B | 02/03/2023 | 4 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 42.8 |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text represents samples that have been excavated



APPENDIX A

Referenced Well Records



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

| | | | | | | | | | |
|-----------------|-------------------|------------|------------|-----------|------------|------------|------------|----------|----------|
| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng | X | Y |
| C | 03595 POD1 | 4 | 2 | 3 | 21 | 26S | 32E | 624423 | 3544045 |

| | |
|------------------------------|--|
| Driller License: 1654 | Driller Company: NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC |
| Driller Name: | |

| | | |
|-------------------------------------|--------------------------------------|------------------------------|
| Drill Start Date: 09/30/2013 | Drill Finish Date: 09/30/2013 | Plug Date: |
| Log File Date: 10/29/2013 | PCW Rcv Date: | Source: Shallow |
| Pump Type: | Pipe Discharge Size: | Estimated Yield: |
| Casing Size: 6.00 | Depth Well: 280 feet | Depth Water: 180 feet |

| | | | |
|---------------------------------------|------------|---------------|-------------------------------|
| Water Bearing Stratifications: | Top | Bottom | Description |
| | 160 | 200 | Sandstone/Gravel/Conglomerate |

| | | |
|-----------------------------|------------|---------------|
| Casing Perforations: | Top | Bottom |
| | 200 | 240 |

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/30/23 4:16 PM

POINT OF DIVERSION SUMMARY



[USGS Home](#)
[Contact USGS](#)
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National Water Information System: Web Interface

USGS Water Resources

Data Category:


Site Information

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the [NEW USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

USGS 320134103384101 26S.32E.21.32311

Available data for this site

SUMMARY OF ALL AVAILABLE DATA

GO

Well Site

DESCRIPTION:

Latitude 32°01'35.2", Longitude 103°41'01.8" NAD83

Lea County, New Mexico, Hydrologic Unit 13070001

Well depth: 405. feet

Hole depth: 405. feet

Land surface altitude: 3,130 feet above NAVD88.

Well completed in "Pecos River Basin alluvial aquifer" (N100PCSRVR) national aquifer.

Well completed in "Dockum Group" (231DCKM) local aquifer


AVAILABLE DATA:

| Data Type | Begin Date | End Date | Count |
|--|-------------------------------------|------------|-------|
| Field groundwater-level measurements | 1993-06-16 | 2013-01-16 | 2 |
| Revisions | Unavailable (site:0) (timeseries:0) | | |



APPENDIX B

Lithologic Soil Sampling Logs

|  | | | | | | | | Sample Name: BH01 | | Date: 2/3/2023 | |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|--------------------|--|
| | | | | | | | | Site Name: Battle Axe CTB | | | |
| | | | | | | | | Incident Number: NAPP2300341479 | | | |
| | | | | | | | | Job Number: 03D2024137 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: DN | | Method: Hand Auger | |
| Coordinates: 32.0191465, -103.6562958 | | | | | | | | Hole Diameter: 4" | | Total Depth: 4' | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor was included. SAA: Same As Above | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| | | | | | | 0 | | | | | |
| D | <170 | 1.4 | N | BH01 | 0.5 | | SP-SM | SAND, light brown, fine grain, poorly graded with silt, no staining, no odor. SAA, light brown to tan. SAA SAA | | | |
| D | 173 | 0.8 | N | BH01A | 1 | 1 | | | | | |
| D | 207 | 0.6 | N | | | 2 | | | | | |
| D | <170 | 0.2 | N | | | 3 | | | | | |
| D | <170 | 0.3 | N | BH01B | 4 | 4 | | | | | |
| TD @ 4 feet bgs | | | | | | | | | | | |



APPENDIX C

Photographic Log

**Photographic Log**

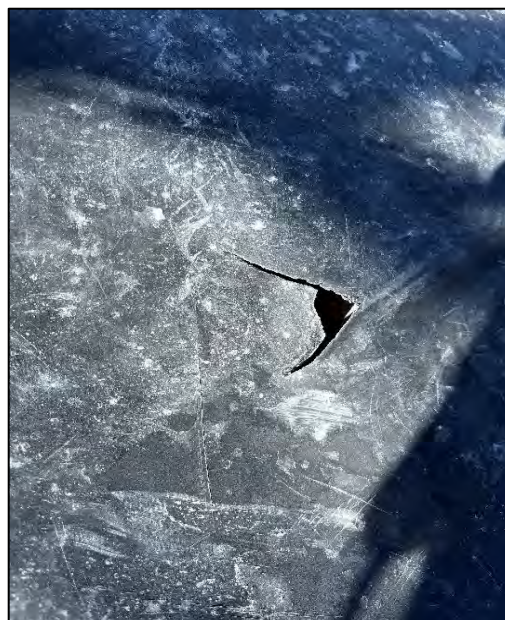
ConocoPhillips Company

Battle Axe CTB

Incident Number NAPP2300341479



Photograph: 1 Date: 1/24/2023
Description: Liner inspection
View: Northeast



Photograph: 2 Date: 1/24/2023
Description: Compromised liner
View: East



Photograph: 3 Date: 2/3/2023
Description: Delineation activities
View: Southeast



Photograph: 4 Date: 2/6/2023
Description: Patched Liner
View: East



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/14/2023 12:59:04 PM

JOB DESCRIPTION

Battle Axe CTB
SDG NUMBER 03D2024137


JOB NUMBER

890-4034-1

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

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2/14/2023 12:59:04 PM

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

Client: Ensolum
Project/Site: Battle Axe CTB

Laboratory Job ID: 890-4034-1
SDG: 03D2024137

Table of Contents

| | |
|----------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 3 |
| Definitions/Glossary | 4 |
| Case Narrative | 5 |
| Client Sample Results | 6 |
| Surrogate Summary | 9 |
| QC Sample Results | 10 |
| QC Association Summary | 15 |
| Lab Chronicle | 17 |
| Certification Summary | 18 |
| Method Summary | 19 |
| Sample Summary | 20 |
| Chain of Custody | 21 |
| Receipt Checklists | 22 |

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

Definitions/Glossary

Client: Ensolum
Project/Site: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

Qualifiers

GC VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| 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, low biased. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| 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 |
| 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 |

Case Narrative

Client: Ensolum
Project/Site: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

Job ID: 890-4034-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-4034-1****Receipt**

The samples were received on 2/6/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH01 (890-4034-1), BH01 (890-4034-2) and BH01 (890-4034-3).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-46010 and analytical batch 880-46086 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH01 (890-4034-1), BH01 (890-4034-2), BH01 (890-4034-3), (CCV 880-46086/33), (LCS 880-46012/1-A), (LCSD 880-46012/2-A), (890-4031-A-21-G MS) and (890-4031-A-21-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4031-A-21-I). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4037-A-1-H). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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: Surrogate recovery for the following samples were outside control limits: (CCV 880-45949/5) and (LCS 880-45900/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-24301-A-1-H) and (880-24301-A-1-I MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH01 (890-4034-1), BH01 (890-4034-2) and BH01 (890-4034-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-45900 and analytical batch 880-45949 contained Gasoline Range Organics (GRO)-C6-C10 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: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

Client Sample ID: BH01

Lab Sample ID: 890-4034-1

Date Collected: 02/03/23 10:00

Matrix: Solid

Date Received: 02/06/23 08:00

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 | | 02/10/23 14:36 | 02/14/23 03:48 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/10/23 14:36 | 02/14/23 03:48 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/10/23 14:36 | 02/14/23 03:48 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 02/10/23 14:36 | 02/14/23 03:48 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/10/23 14:36 | 02/14/23 03:48 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 02/10/23 14:36 | 02/14/23 03:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 79 | | 70 - 130 | 02/10/23 14:36 | 02/14/23 03:48 | 1 |
| 1,4-Difluorobenzene (Surr) | 79 | | 70 - 130 | 02/10/23 14:36 | 02/14/23 03:48 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 02/14/23 11:45 | 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 | | | 02/13/23 14:46 | 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 | | 02/09/23 13:32 | 02/10/23 16:54 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/09/23 13:32 | 02/10/23 16:54 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/09/23 13:32 | 02/10/23 16:54 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 62 | S1- | 70 - 130 | 02/09/23 13:32 | 02/10/23 16:54 | 1 |
| o-Terphenyl | 71 | | 70 - 130 | 02/09/23 13:32 | 02/10/23 16:54 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 25.5 | | 4.95 | mg/Kg | | | 02/08/23 03:50 | 1 |

Client Sample ID: BH01

Lab Sample ID: 890-4034-2

Date Collected: 02/03/23 10:10

Matrix: Solid

Date Received: 02/06/23 08:00

Sample Depth: 1

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 02/10/23 14:36 | 02/14/23 04:14 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 02/10/23 14:36 | 02/14/23 04:14 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 02/10/23 14:36 | 02/14/23 04:14 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 02/10/23 14:36 | 02/14/23 04:14 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 02/10/23 14:36 | 02/14/23 04:14 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 02/10/23 14:36 | 02/14/23 04:14 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 147 | S1+ | 70 - 130 | 02/10/23 14:36 | 02/14/23 04:14 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

Client Sample ID: BH01

Lab Sample ID: 890-4034-2

Date Collected: 02/03/23 10:10

Matrix: Solid

Date Received: 02/06/23 08:00

Sample Depth: 1

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 90 | | 70 - 130 | 02/10/23 14:36 | 02/14/23 04:14 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 02/14/23 11:45 | 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 | | | 02/13/23 14:46 | 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 | | 02/09/23 13:32 | 02/10/23 17:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/09/23 13:32 | 02/10/23 17:16 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/09/23 13:32 | 02/10/23 17:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 54 | S1- | 70 - 130 | | | 02/09/23 13:32 | 02/10/23 17:16 | 1 |
| o-Terphenyl | 68 | S1- | 70 - 130 | | | 02/09/23 13:32 | 02/10/23 17:16 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 142 | | 4.97 | mg/Kg | | | 02/08/23 03:55 | 1 |

Client Sample ID: BH01

Lab Sample ID: 890-4034-3

Date Collected: 02/03/23 10:40

Matrix: Solid

Date Received: 02/06/23 08:00

Sample Depth: 4

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 02/10/23 14:36 | 02/14/23 04:41 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 02/10/23 14:36 | 02/14/23 04:41 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 02/10/23 14:36 | 02/14/23 04:41 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 02/10/23 14:36 | 02/14/23 04:41 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 02/10/23 14:36 | 02/14/23 04:41 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 02/10/23 14:36 | 02/14/23 04:41 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 148 | S1+ | 70 - 130 | 02/10/23 14:36 | 02/14/23 04:41 | 1 |
| 1,4-Difluorobenzene (Surr) | 83 | | 70 - 130 | 02/10/23 14:36 | 02/14/23 04:41 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 02/14/23 11:45 | 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 | | | 02/13/23 14:46 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

Client Sample ID: BH01
Date Collected: 02/03/23 10:40
Date Received: 02/06/23 08:00
Sample Depth: 4

Lab Sample ID: 890-4034-3
Matrix: Solid

| 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 | | 02/09/23 13:32 | 02/10/23 17:38 | 1 | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/09/23 13:32 | 02/10/23 17:38 | 1 | |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/09/23 13:32 | 02/10/23 17:38 | 1 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1-Chlorooctane | 54 | S1- | 70 - 130 | | | 02/09/23 13:32 | 02/10/23 17:38 | 1 | |
| o-Terphenyl | 63 | S1- | 70 - 130 | | | 02/09/23 13:32 | 02/10/23 17:38 | 1 | |

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
|--|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Chloride | 42.8 | | 5.04 | mg/Kg | | | 02/08/23 03:59 | 1 | |

Surrogate Summary

Client: Ensolum
Project/Site: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-4031-A-21-H MSD | Matrix Spike Duplicate | 144 S1+ | 95 |
| 890-4034-1 | BH01 | 79 | 79 |
| 890-4034-2 | BH01 | 147 S1+ | 90 |
| 890-4034-3 | BH01 | 148 S1+ | 83 |
| 890-4037-A-1-F MS | Matrix Spike | 116 | 81 |
| LCS 880-46010/1-A | Lab Control Sample | 130 | 100 |
| LCS 880-46012/1-A | Lab Control Sample | 134 S1+ | 87 |
| LCSD 880-46010/2-A | Lab Control Sample Dup | 128 | 86 |
| LCSD 880-46012/2-A | Lab Control Sample Dup | 140 S1+ | 85 |
| MB 880-46010/5-A | Method Blank | 89 | 85 |
| MB 880-46012/5-A | Method Blank | 93 | 82 |
| Surrogate Legend | | | |
| 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 (70-130) | OTPH1 (70-130) |
| 880-24301-A-1-I MS | Matrix Spike | 68 S1- | 72 |
| 880-24301-A-1-J MSD | Matrix Spike Duplicate | 86 | 74 |
| 890-4034-1 | BH01 | 62 S1- | 71 |
| 890-4034-2 | BH01 | 54 S1- | 68 S1- |
| 890-4034-3 | BH01 | 54 S1- | 63 S1- |
| LCS 880-45900/2-A | Lab Control Sample | 132 S1+ | 138 S1+ |
| LCSD 880-45900/3-A | Lab Control Sample Dup | 106 | 130 |
| MB 880-45900/1-A | Method Blank | 74 | 93 |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

QC Sample Results

Client: Ensolum
Project/Site: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46010/5-A

Matrix: Solid

Analysis Batch: 46086

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46010

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/10/23 14:32 | 02/13/23 12:26 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/10/23 14:32 | 02/13/23 12:26 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/10/23 14:32 | 02/13/23 12:26 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/10/23 14:32 | 02/13/23 12:26 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/10/23 14:32 | 02/13/23 12:26 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/10/23 14:32 | 02/13/23 12:26 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 | 02/10/23 14:32 | 02/13/23 12:26 | 1 |
| 1,4-Difluorobenzene (Surr) | 85 | | 70 - 130 | 02/10/23 14:32 | 02/13/23 12:26 | 1 |

Lab Sample ID: LCS 880-46010/1-A

Matrix: Solid

Analysis Batch: 46086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46010

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene | 0.100 | 0.1345 | *+ | mg/Kg | | 135 | 70 - 130 |
| Toluene | 0.100 | 0.1363 | *+ | mg/Kg | | 136 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1415 | *+ | mg/Kg | | 141 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2823 | *+ | mg/Kg | | 141 | 70 - 130 |
| o-Xylene | 0.100 | 0.1415 | *+ | mg/Kg | | 141 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 130 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 |

Lab Sample ID: LCSD 880-46010/2-A

Matrix: Solid

Analysis Batch: 46086

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46010

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Benzene | 0.100 | 0.1219 | | mg/Kg | | 122 | 70 - 130 | 10 | 35 |
| Toluene | 0.100 | 0.1231 | | mg/Kg | | 123 | 70 - 130 | 10 | 35 |
| Ethylbenzene | 0.100 | 0.1286 | | mg/Kg | | 129 | 70 - 130 | 10 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2608 | | mg/Kg | | 130 | 70 - 130 | 8 | 35 |
| o-Xylene | 0.100 | 0.1290 | | mg/Kg | | 129 | 70 - 130 | 9 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 128 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 86 | | 70 - 130 |

Lab Sample ID: 890-4031-A-21-H MSD

Matrix: Solid

Analysis Batch: 46086

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46010

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Benzene | <0.00202 | U *+ | 0.0996 | 0.1080 | | mg/Kg | | 108 | 70 - 130 | 2 | 35 |
| Toluene | <0.00202 | U *+ | 0.0996 | 0.1113 | | mg/Kg | | 112 | 70 - 130 | 1 | 35 |

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QC Sample Results

Client: Ensolum
Project/Site: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

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

Lab Sample ID: 890-4031-A-21-H MSD

Matrix: Solid

Analysis Batch: 46086

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46010

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Ethylbenzene | <0.00202 | U * | 0.0996 | 0.1137 | | mg/Kg | | 114 | 70 - 130 | 2 | 35 |
| m-Xylene & p-Xylene | <0.00404 | U * | 0.199 | 0.2295 | | mg/Kg | | 115 | 70 - 130 | 2 | 35 |
| o-Xylene | <0.00202 | U * | 0.0996 | 0.1137 | | mg/Kg | | 114 | 70 - 130 | 1 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | MSD Limits |
|-----------------------------|---------------|---------------|------------|
| 4-Bromofluorobenzene (Surr) | 144 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 |

Lab Sample ID: MB 880-46012/5-A

Matrix: Solid

Analysis Batch: 46086

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46012

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/10/23 14:36 | 02/14/23 01:37 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/10/23 14:36 | 02/14/23 01:37 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/10/23 14:36 | 02/14/23 01:37 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/10/23 14:36 | 02/14/23 01:37 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/10/23 14:36 | 02/14/23 01:37 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/10/23 14:36 | 02/14/23 01:37 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | MB Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|-----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 93 | | 70 - 130 | 02/10/23 14:36 | 02/14/23 01:37 | 1 |
| 1,4-Difluorobenzene (Surr) | 82 | | 70 - 130 | 02/10/23 14:36 | 02/14/23 01:37 | 1 |

Lab Sample ID: LCS 880-46012/1-A

Matrix: Solid

Analysis Batch: 46086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46012

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene | 0.100 | 0.1059 | | mg/Kg | | 106 | 70 - 130 |
| Toluene | 0.100 | 0.1130 | | mg/Kg | | 113 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1122 | | mg/Kg | | 112 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2259 | | mg/Kg | | 113 | 70 - 130 |
| o-Xylene | 0.100 | 0.1169 | | mg/Kg | | 117 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | LCS Limits |
|-----------------------------|---------------|---------------|------------|
| 4-Bromofluorobenzene (Surr) | 134 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 87 | | 70 - 130 |

Lab Sample ID: LCSD 880-46012/2-A

Matrix: Solid

Analysis Batch: 46086

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46012

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100 | 0.1142 | | mg/Kg | | 114 | 70 - 130 | 8 | 35 |
| Toluene | 0.100 | 0.1154 | | mg/Kg | | 115 | 70 - 130 | 2 | 35 |
| Ethylbenzene | 0.100 | 0.1117 | | mg/Kg | | 112 | 70 - 130 | 0 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2226 | | mg/Kg | | 111 | 70 - 130 | 1 | 35 |

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QC Sample Results

Client: Ensolum
Project/Site: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

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

Lab Sample ID: LCSD 880-46012/2-A

Matrix: Solid

Analysis Batch: 46086

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46012

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|----------------|----------------|----------------|-------|---|------|-------------|-----|-----------|
| o-Xylene | 0.100 | 0.1105 | | mg/Kg | | 111 | 70 - 130 | 6 | 35 |
| | | | | | | | | | |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | | | | | |
| 4-Bromofluorobenzene (Surr) | 140 | S1+ | 70 - 130 | | | | | | |
| 1,4-Difluorobenzene (Surr) | 85 | | 70 - 130 | | | | | | |

Lab Sample ID: 890-4037-A-1-F MS

Matrix: Solid

Analysis Batch: 46086

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46012

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00201 | U | 0.100 | 0.08259 | | mg/Kg | | 82 | 70 - 130 |
| Toluene | <0.00201 | U | 0.100 | 0.07765 | | mg/Kg | | 77 | 70 - 130 |
| Ethylbenzene | <0.00201 | U | 0.100 | 0.08149 | | mg/Kg | | 81 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.200 | 0.1603 | | mg/Kg | | 80 | 70 - 130 |
| o-Xylene | <0.00201 | U | 0.100 | 0.07875 | | mg/Kg | | 79 | 70 - 130 |
| | | | | | | | | | |
| Surrogate | MS %Recovery | MS Qualifier | Limits | | | | | | |
| 4-Bromofluorobenzene (Surr) | 116 | | 70 - 130 | | | | | | |
| 1,4-Difluorobenzene (Surr) | 81 | | 70 - 130 | | | | | | |

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

Lab Sample ID: MB 880-45900/1-A

Matrix: Solid

Analysis Batch: 45949

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45900

| 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 | | 02/09/23 13:32 | 02/10/23 08:07 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/09/23 13:32 | 02/10/23 08:07 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/09/23 13:32 | 02/10/23 08:07 | 1 |
| | | | | | | | | |
| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac | | |
| 1-Chlorooctane | 74 | | 70 - 130 | 02/09/23 13:32 | 02/10/23 08:07 | 1 | | |
| o-Terphenyl | 93 | | 70 - 130 | 02/09/23 13:32 | 02/10/23 08:07 | 1 | | |

Lab Sample ID: LCS 880-45900/2-A

Matrix: Solid

Analysis Batch: 45949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45900

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1020 | | mg/Kg | | 102 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1138 | | mg/Kg | | 114 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

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

Lab Sample ID: LCS 880-45900/2-A
Matrix: Solid
Analysis Batch: 45949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45900

| | LCS | LCS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 132 | S1+ | 70 - 130 |
| o-Terphenyl | 138 | S1+ | 70 - 130 |

Lab Sample ID: LCSD 880-45900/3-A
Matrix: Solid
Analysis Batch: 45949

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45900

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 988.6 | | mg/Kg | | 99 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1056 | | mg/Kg | | 106 | 70 - 130 | 7 | 20 |

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

Lab Sample ID: 880-24301-A-1-I MS
Matrix: Solid
Analysis Batch: 45949

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 45900

| 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 | 998 | 1139 | | mg/Kg | | 110 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 998 | 1193 | | mg/Kg | | 116 | 70 - 130 |

| | MS | MS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 68 | S1- | 70 - 130 |
| o-Terphenyl | 72 | | 70 - 130 |

Lab Sample ID: 880-24301-A-1-J MSD
Matrix: Solid
Analysis Batch: 45949

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 45900

| 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 | 1192 | | mg/Kg | | 116 | 70 - 130 | 5 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 997 | 1218 | | mg/Kg | | 119 | 70 - 130 | 2 | 20 |

| | MSD | MSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 86 | | 70 - 130 |
| o-Terphenyl | 74 | | 70 - 130 |

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45706/1-A
Matrix: Solid
Analysis Batch: 45760

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 | | | 02/08/23 01:53 | 1 |

Lab Sample ID: LCS 880-45706/2-A
Matrix: Solid
Analysis Batch: 45760

Client Sample ID: Lab Control Sample
Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250 | 246.4 | | mg/Kg | | 99 | 90 - 110 |

Lab Sample ID: LCSD 880-45706/3-A
Matrix: Solid
Analysis Batch: 45760

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 | 256.7 | | mg/Kg | | 103 | 90 - 110 | 4 | 20 |

Lab Sample ID: 890-4031-A-31-B MS
Matrix: Solid
Analysis Batch: 45760

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 | 479 | | 249 | 705.9 | | mg/Kg | | 91 | 90 - 110 |

Lab Sample ID: 890-4031-A-31-C MSD
Matrix: Solid
Analysis Batch: 45760

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 | 479 | | 249 | 722.0 | | mg/Kg | | 98 | 90 - 110 | 2 | 20 |

QC Association Summary

Client: Ensolum
Project/Site: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

GC VOA

Prep Batch: 46010

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| MB 880-46010/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-46010/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-46010/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-4031-A-21-H MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Prep Batch: 46012

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4034-1 | BH01 | Total/NA | Solid | 5035 | |
| 890-4034-2 | BH01 | Total/NA | Solid | 5035 | |
| 890-4034-3 | BH01 | Total/NA | Solid | 5035 | |
| MB 880-46012/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-46012/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-46012/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-4037-A-1-F MS | Matrix Spike | Total/NA | Solid | 5035 | |

Analysis Batch: 46086

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-4034-1 | BH01 | Total/NA | Solid | 8021B | 46012 |
| 890-4034-2 | BH01 | Total/NA | Solid | 8021B | 46012 |
| 890-4034-3 | BH01 | Total/NA | Solid | 8021B | 46012 |
| MB 880-46010/5-A | Method Blank | Total/NA | Solid | 8021B | 46010 |
| MB 880-46012/5-A | Method Blank | Total/NA | Solid | 8021B | 46012 |
| LCS 880-46010/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 46010 |
| LCS 880-46012/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 46012 |
| LCSD 880-46010/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 46010 |
| LCSD 880-46012/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 46012 |
| 890-4031-A-21-H MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 46010 |
| 890-4037-A-1-F MS | Matrix Spike | Total/NA | Solid | 8021B | 46012 |

Analysis Batch: 46311

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-4034-1 | BH01 | Total/NA | Solid | Total BTEX | |
| 890-4034-2 | BH01 | Total/NA | Solid | Total BTEX | |
| 890-4034-3 | BH01 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 45900

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-4034-1 | BH01 | Total/NA | Solid | 8015NM Prep | |
| 890-4034-2 | BH01 | Total/NA | Solid | 8015NM Prep | |
| 890-4034-3 | BH01 | Total/NA | Solid | 8015NM Prep | |
| MB 880-45900/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-45900/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-45900/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-24301-A-1-I MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-24301-A-1-J MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 45949

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-4034-1 | BH01 | Total/NA | Solid | 8015B NM | 45900 |

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QC Association Summary

Client: Ensolum
Project/Site: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

GC Semi VOA (Continued)

Analysis Batch: 45949 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-4034-2 | BH01 | Total/NA | Solid | 8015B NM | 45900 |
| 890-4034-3 | BH01 | Total/NA | Solid | 8015B NM | 45900 |
| MB 880-45900/1-A | Method Blank | Total/NA | Solid | 8015B NM | 45900 |
| LCS 880-45900/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 45900 |
| LCSD 880-45900/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 45900 |
| 880-24301-A-1-I MS | Matrix Spike | Total/NA | Solid | 8015B NM | 45900 |
| 880-24301-A-1-J MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 45900 |

Analysis Batch: 46171

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-4034-1 | BH01 | Total/NA | Solid | 8015 NM | |
| 890-4034-2 | BH01 | Total/NA | Solid | 8015 NM | |
| 890-4034-3 | BH01 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 45706

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-4034-1 | BH01 | Soluble | Solid | DI Leach | |
| 890-4034-2 | BH01 | Soluble | Solid | DI Leach | |
| 890-4034-3 | BH01 | Soluble | Solid | DI Leach | |
| MB 880-45706/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-45706/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-45706/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-4031-A-31-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-4031-A-31-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 45760

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-4034-1 | BH01 | Soluble | Solid | 300.0 | 45706 |
| 890-4034-2 | BH01 | Soluble | Solid | 300.0 | 45706 |
| 890-4034-3 | BH01 | Soluble | Solid | 300.0 | 45706 |
| MB 880-45706/1-A | Method Blank | Soluble | Solid | 300.0 | 45706 |
| LCS 880-45706/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 45706 |
| LCSD 880-45706/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 45706 |
| 890-4031-A-31-B MS | Matrix Spike | Soluble | Solid | 300.0 | 45706 |
| 890-4031-A-31-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 45706 |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

Client Sample ID: BH01

Lab Sample ID: 890-4034-1

Date Collected: 02/03/23 10:00

Matrix: Solid

Date Received: 02/06/23 08:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 46012 | 02/10/23 14:36 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 46086 | 02/14/23 03:48 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 46311 | 02/14/23 11:45 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 46171 | 02/13/23 14:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45900 | 02/09/23 13:32 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45949 | 02/10/23 16:54 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 45706 | 02/07/23 15:02 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 45760 | 02/08/23 03:50 | CH | EET MID |

Client Sample ID: BH01

Lab Sample ID: 890-4034-2

Date Collected: 02/03/23 10:10

Matrix: Solid

Date Received: 02/06/23 08:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 46012 | 02/10/23 14:36 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 46086 | 02/14/23 04:14 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 46311 | 02/14/23 11:45 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 46171 | 02/13/23 14:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 45900 | 02/09/23 13:32 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45949 | 02/10/23 17:16 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 45706 | 02/07/23 15:02 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 45760 | 02/08/23 03:55 | CH | EET MID |

Client Sample ID: BH01

Lab Sample ID: 890-4034-3

Date Collected: 02/03/23 10:40

Matrix: Solid

Date Received: 02/06/23 08:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 46012 | 02/10/23 14:36 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 46086 | 02/14/23 04:41 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 46311 | 02/14/23 11:45 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 46171 | 02/13/23 14:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45900 | 02/09/23 13:32 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45949 | 02/10/23 17:38 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 45706 | 02/07/23 15:02 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 45760 | 02/08/23 03:59 | CH | EET MID |

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

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 |

Method Summary

Client: Ensolum
Project/Site: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

| 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 | EPA | 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

EPA = US Environmental Protection Agency

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: Battle Axe CTB

Job ID: 890-4034-1
SDG: 03D2024137

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-4034-1 | BH01 | Solid | 02/03/23 10:00 | 02/06/23 08:00 | 0.5 |
| 890-4034-2 | BH01 | Solid | 02/03/23 10:10 | 02/06/23 08:00 | 1 |
| 890-4034-3 | BH01 | Solid | 02/03/23 10:40 | 02/06/23 08:00 | 4 |

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- 7
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- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 4

| | | | |
|------------------|-------------------------------|-------------------------|---|
| Project Manager: | Hadlie Green | Bill to: (if different) | Katei Jennings |
| Company Name: | Ensolum, LLC | Company Name: | Ensolum, LLC |
| Address: | 601 N Marlenfeld St Suite 400 | Address: | 601 N Marlenfeld St Suite 400 |
| City, State ZIP: | Midland, TX 79701 | City, State ZIP: | Midland, TX 79701 |
| Phone: | 432-557-8895 | Email: | kjennings@ensolum.com, hgreen@ensolum.com |

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADAPT ☐ Other: _____

| | | | | | | | |
|---|--|---|--|---|--|--|--|
| Project Name: | | Battie Axe CTB | | Turn Around | | Pres. Code | |
| Project Number: | | 03D2024137 | | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | | | |
| Project Location: | | Lea County, NM | | Due Date: | | | |
| Sampler's Name: | | Dmitry Nikanorov | | TAT starts the day received by the lab, if received by 4:30pm | | | |
| PO #: | | | | | | | |
| SAMPLE RECEIPT | | Temp Blank: | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Samples Received Intact: | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Thermometer ID: | | TAW-837 | |
| Cooler Custody Seals: | | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | Correction Factor: | | -0.2 | |
| Sample Custody Seals: | | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | Temperature Reading: | | 0.2 | |
| Total Containers: | | | | Corrected Temperature: | | 0.0 | |
| Parameters | | | | | | | |
| RIDES (EPA: 300.0) | | | | | | | |
| 015) | | | | | | | |
| 8021 | | | | | | | |
| ANALYSIS REQUEST | | | | | | | |
| Preservative Codes | | | | | | | |
| None | | NO | | DI Water: | | H ₂ O | |
| Cool | | Cool | | MeOH: | | Me | |
| HCL: | | HC | | HNO ₃ : | | HN | |
| H ₂ SO ₄ : | | H ₂ | | NaOH: | | Na | |
| H ₃ PO ₄ : | | HP | | | | | |
| NaHSO ₄ : | | NABIS | | | | | |
| Na ₂ S ₂ O ₃ : | | NaSO ₃ | | | | | |
| Zn Acetate+NaOH: | | Zn | | | | | |
| NaOH+Ascorbic Acid: | | SAPC | | | | | |

[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 ₂ | Na | Sr | Ti | Sn | U | V | Zn |
|--|--------------|---------------|-------------------|-------|----------|----|----|----|----|----|--|----|----|----|----|----|----|----|----|----|----|----|---|----|----|------------------|--------|-------|----|----|---|---|----|
| Circle Method(s) and Metal(s) to be analyzed | | | TC1P / SPLP 6010: | 8RCRA | Sb | As | Ba | Be | Cd | Cr | Co <td>Cu</td> <td>Pb</td> <td>Mn</td> <td>Mo</td> <td>Ni</td> <td>Se</td> <td>Ag</td> <td>Ti</td> <td>U</td> <td></td> <td></td> <td></td> <td></td> <td>Hg</td> <td>163/1245.1</td> <td>174/70</td> <td>74/71</td> <td></td> <td></td> <td></td> <td></td> | Cu | Pb | Mn | Mo | Ni | Se | Ag | Ti | U | | | | | Hg | 163/1245.1 | 174/70 | 74/71 | | | | | |

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenico, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenico 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 Xenico. A minimum charge of \$45.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xenico, 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>[Signature]</i> | <i>[Signature]</i> | 2-10-23 2:00 | | | |
| 2 | | | 4 | | |
| 3 | | | | | |
| 4 | | | 6 | | |
| 5 | | | | | |

Revised Date: 08/25/2020 Rev: 2020

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4034-1

SDG Number: 03D2024137

Login Number: 4034

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: 890-4034-1

SDG Number: 03D2024137

Login Number: 4034

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 02/07/23 01:54 PM

| 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: Hadlie Green

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 2/28/2023 3:59:34 PM

JOB DESCRIPTION

Battle Axe Liner

SDG NUMBER 03D2024137

JOB NUMBER

890-4137-1

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
2/28/2023 3:59:34 PM

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

Client: Ensolum
Project/Site: Battle Axe Liner

Laboratory Job ID: 890-4137-1
SDG: 03D2024137

Table of Contents

| | |
|----------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 3 |
| Definitions/Glossary | 4 |
| Case Narrative | 5 |
| Client Sample Results | 6 |
| Surrogate Summary | 10 |
| QC Sample Results | 11 |
| QC Association Summary | 15 |
| Lab Chronicle | 17 |
| Certification Summary | 19 |
| Method Summary | 20 |
| Sample Summary | 21 |
| Chain of Custody | 22 |
| Receipt Checklists | 23 |

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

Definitions/Glossary

Client: Ensolum
Project/Site: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

Qualifiers

GC VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| S1- | Surrogate recovery exceeds control limits, low biased. |
| 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 |
|-----------|--|
| 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 |

Case Narrative

Client: Ensolum
Project/Site: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

Job ID: 890-4137-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4137-1

Receipt

The samples were received on 2/17/2023 3:26 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4137-1), SS02 (890-4137-2), SS03 (890-4137-3) and SS04 (890-4137-4).

GC VOA

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-47012 and analytical batch 880-47064 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-47012 and analytical batch 880-47064 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.

GC Semi VOA

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: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

Client Sample ID: SS01

Lab Sample ID: 890-4137-1

Date Collected: 02/17/23 09:05

Matrix: Solid

Date Received: 02/17/23 15:26

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 | | 02/23/23 11:00 | 02/23/23 22:39 | 1 |
| Toluene | <0.00200 | U ** | 0.00200 | mg/Kg | | 02/23/23 11:00 | 02/23/23 22:39 | 1 |
| Ethylbenzene | <0.00200 | U ** | 0.00200 | mg/Kg | | 02/23/23 11:00 | 02/23/23 22:39 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U ** | 0.00399 | mg/Kg | | 02/23/23 11:00 | 02/23/23 22:39 | 1 |
| o-Xylene | <0.00200 | U ** | 0.00200 | mg/Kg | | 02/23/23 11:00 | 02/23/23 22:39 | 1 |
| Xylenes, Total | <0.00399 | U ** | 0.00399 | mg/Kg | | 02/23/23 11:00 | 02/23/23 22:39 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 223 | S1+ | 70 - 130 | 02/23/23 11:00 | 02/23/23 22:39 | 1 |
| 1,4-Difluorobenzene (Surr) | 64 | S1- | 70 - 130 | 02/23/23 11:00 | 02/23/23 22:39 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 02/28/23 16:48 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 02/24/23 13:40 | 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 | <49.8 | U | 49.8 | mg/Kg | | 02/23/23 17:02 | 02/23/23 21:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 02/23/23 17:02 | 02/23/23 21:37 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 02/23/23 17:02 | 02/23/23 21:37 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 107 | | 70 - 130 | 02/23/23 17:02 | 02/23/23 21:37 | 1 |
| o-Terphenyl | 104 | | 70 - 130 | 02/23/23 17:02 | 02/23/23 21:37 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 55.1 | | 5.05 | mg/Kg | | | 02/22/23 23:10 | 1 |

Client Sample ID: SS02

Lab Sample ID: 890-4137-2

Date Collected: 02/17/23 09:00

Matrix: Solid

Date Received: 02/17/23 15:26

Sample Depth: 0.5

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U ** | 0.00201 | mg/Kg | | 02/23/23 11:00 | 02/23/23 23:06 | 1 |
| Toluene | <0.00201 | U ** | 0.00201 | mg/Kg | | 02/23/23 11:00 | 02/23/23 23:06 | 1 |
| Ethylbenzene | <0.00201 | U ** | 0.00201 | mg/Kg | | 02/23/23 11:00 | 02/23/23 23:06 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U ** | 0.00402 | mg/Kg | | 02/23/23 11:00 | 02/23/23 23:06 | 1 |
| o-Xylene | <0.00201 | U ** | 0.00201 | mg/Kg | | 02/23/23 11:00 | 02/23/23 23:06 | 1 |
| Xylenes, Total | <0.00402 | U ** | 0.00402 | mg/Kg | | 02/23/23 11:00 | 02/23/23 23:06 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 204 | S1+ | 70 - 130 | 02/23/23 11:00 | 02/23/23 23:06 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

Client Sample ID: SS02

Lab Sample ID: 890-4137-2

Date Collected: 02/17/23 09:00

Matrix: Solid

Date Received: 02/17/23 15:26

Sample Depth: 0.5

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 62 | S1- | 70 - 130 | 02/23/23 11:00 | 02/23/23 23:06 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | - | | 02/28/23 16:48 | 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 | - | | 02/24/23 13:40 | 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 | - | 02/23/23 17:02 | 02/23/23 22:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | - | 02/23/23 17:02 | 02/23/23 22:43 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | - | 02/23/23 17:02 | 02/23/23 22:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 102 | | 70 - 130 | | | 02/23/23 17:02 | 02/23/23 22:43 | 1 |
| o-Terphenyl | 102 | | 70 - 130 | | | 02/23/23 17:02 | 02/23/23 22:43 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 99.0 | | 5.04 | mg/Kg | - | | 02/22/23 23:17 | 1 |

Client Sample ID: SS03

Lab Sample ID: 890-4137-3

Date Collected: 02/17/23 08:55

Matrix: Solid

Date Received: 02/17/23 15:26

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 | - | 02/23/23 11:00 | 02/23/23 23:32 | 1 |
| Toluene | <0.00198 | U ** | 0.00198 | mg/Kg | - | 02/23/23 11:00 | 02/23/23 23:32 | 1 |
| Ethylbenzene | <0.00198 | U ** | 0.00198 | mg/Kg | - | 02/23/23 11:00 | 02/23/23 23:32 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U ** | 0.00396 | mg/Kg | - | 02/23/23 11:00 | 02/23/23 23:32 | 1 |
| o-Xylene | <0.00198 | U ** | 0.00198 | mg/Kg | - | 02/23/23 11:00 | 02/23/23 23:32 | 1 |
| Xylenes, Total | <0.00396 | U ** | 0.00396 | mg/Kg | - | 02/23/23 11:00 | 02/23/23 23:32 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 264 | S1+ | 70 - 130 | 02/23/23 11:00 | 02/23/23 23:32 | 1 |
| 1,4-Difluorobenzene (Surr) | 73 | | 70 - 130 | 02/23/23 11:00 | 02/23/23 23:32 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | - | | 02/28/23 16:48 | 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 | - | | 02/24/23 13:40 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

Client Sample ID: SS03

Lab Sample ID: 890-4137-3

Date Collected: 02/17/23 08:55

Matrix: Solid

Date Received: 02/17/23 15:26

Sample Depth: 0.5

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 | | 02/23/23 17:02 | 02/23/23 23:06 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/23/23 17:02 | 02/23/23 23:06 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/23/23 17:02 | 02/23/23 23:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 83 | | 70 - 130 | | | 02/23/23 17:02 | 02/23/23 23:06 | 1 |
| o-Terphenyl | 89 | | 70 - 130 | | | 02/23/23 17:02 | 02/23/23 23:06 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 60.1 | | 5.00 | mg/Kg | | | 02/22/23 23:35 | 1 |

Client Sample ID: SS04

Lab Sample ID: 890-4137-4

Date Collected: 02/17/23 08:50

Matrix: Solid

Date Received: 02/17/23 15:26

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 | | 02/23/23 11:00 | 02/23/23 23:58 | 1 |
| Toluene | <0.00199 | U + | 0.00199 | mg/Kg | | 02/23/23 11:00 | 02/23/23 23:58 | 1 |
| Ethylbenzene | <0.00199 | U + | 0.00199 | mg/Kg | | 02/23/23 11:00 | 02/23/23 23:58 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U + | 0.00398 | mg/Kg | | 02/23/23 11:00 | 02/23/23 23:58 | 1 |
| o-Xylene | <0.00199 | U + | 0.00199 | mg/Kg | | 02/23/23 11:00 | 02/23/23 23:58 | 1 |
| Xylenes, Total | <0.00398 | U + | 0.00398 | mg/Kg | | 02/23/23 11:00 | 02/23/23 23:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 250 | S1+ | 70 - 130 | | | 02/23/23 11:00 | 02/23/23 23:58 | 1 |
| 1,4-Difluorobenzene (Surr) | 72 | | 70 - 130 | | | 02/23/23 11:00 | 02/23/23 23:58 | 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 | | | 02/28/23 16:48 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 02/24/23 13:40 | 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 | <49.8 | U | 49.8 | mg/Kg | | 02/23/23 17:02 | 02/23/23 23:27 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 02/23/23 17:02 | 02/23/23 23:27 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 02/23/23 17:02 | 02/23/23 23:27 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 85 | | 70 - 130 | | | 02/23/23 17:02 | 02/23/23 23:27 | 1 |
| o-Terphenyl | 90 | | 70 - 130 | | | 02/23/23 17:02 | 02/23/23 23:27 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

Client Sample ID: SS04
Date Collected: 02/17/23 08:50
Date Received: 02/17/23 15:26
Sample Depth: 0.5

Lab Sample ID: 890-4137-4
Matrix: Solid

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
|--|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Chloride | 27.2 | | 5.00 | mg/Kg | | | 02/22/23 23:41 | 1 | |

Surrogate Summary

Client: Ensolum
Project/Site: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 880-25104-A-2-B MS | Matrix Spike | 215 S1+ | 82 |
| 880-25104-A-2-C MSD | Matrix Spike Duplicate | 235 S1+ | 76 |
| 890-4137-1 | SS01 | 223 S1+ | 64 S1- |
| 890-4137-2 | SS02 | 204 S1+ | 62 S1- |
| 890-4137-3 | SS03 | 264 S1+ | 73 |
| 890-4137-4 | SS04 | 250 S1+ | 72 |
| LCS 880-47012/1-A | Lab Control Sample | 227 S1+ | 72 |
| LCSD 880-47012/2-A | Lab Control Sample Dup | 229 S1+ | 81 |
| MB 880-47012/5-A | Method Blank | 151 S1+ | 67 S1- |
| Surrogate Legend | | | |
| 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 (70-130) | OTPH1 (70-130) |
| 890-4137-1 | SS01 | 107 | 104 |
| 890-4137-1 MS | SS01 | 108 | 102 |
| 890-4137-1 MSD | SS01 | 102 | 97 |
| 890-4137-2 | SS02 | 102 | 102 |
| 890-4137-3 | SS03 | 83 | 89 |
| 890-4137-4 | SS04 | 85 | 90 |
| LCS 880-47116/2-A | Lab Control Sample | 111 | 109 |
| LCSD 880-47116/3-A | Lab Control Sample Dup | 102 | 103 |
| MB 880-47116/1-A | Method Blank | 135 S1+ | 138 S1+ |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

QC Sample Results

Client: Ensolum
Project/Site: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47012/5-A

Matrix: Solid

Analysis Batch: 47064

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47012

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/23/23 11:00 | 02/23/23 15:38 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/23/23 11:00 | 02/23/23 15:38 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/23/23 11:00 | 02/23/23 15:38 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/23/23 11:00 | 02/23/23 15:38 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/23/23 11:00 | 02/23/23 15:38 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/23/23 11:00 | 02/23/23 15:38 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 151 | S1+ | 70 - 130 | 02/23/23 11:00 | 02/23/23 15:38 | 1 |
| 1,4-Difluorobenzene (Surr) | 67 | S1- | 70 - 130 | 02/23/23 11:00 | 02/23/23 15:38 | 1 |

Lab Sample ID: LCS 880-47012/1-A

Matrix: Solid

Analysis Batch: 47064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47012

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene | 0.100 | 0.1735 | *+ | mg/Kg | | 174 | 70 - 130 |
| Toluene | 0.100 | 0.1746 | *+ | mg/Kg | | 175 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1732 | *+ | mg/Kg | | 173 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.3532 | *+ | mg/Kg | | 177 | 70 - 130 |
| o-Xylene | 0.100 | 0.1600 | *+ | mg/Kg | | 160 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 227 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 72 | | 70 - 130 |

Lab Sample ID: LCSD 880-47012/2-A

Matrix: Solid

Analysis Batch: 47064

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47012

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100 | 0.1387 | *+ | mg/Kg | | 139 | 70 - 130 | 22 | 35 |
| Toluene | 0.100 | 0.1457 | *+ | mg/Kg | | 146 | 70 - 130 | 18 | 35 |
| Ethylbenzene | 0.100 | 0.1526 | *+ | mg/Kg | | 153 | 70 - 130 | 13 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.3120 | *+ | mg/Kg | | 156 | 70 - 130 | 12 | 35 |
| o-Xylene | 0.100 | 0.1487 | *+ | mg/Kg | | 149 | 70 - 130 | 7 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 229 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 81 | | 70 - 130 |

Lab Sample ID: 880-25104-A-2-B MS

Matrix: Solid

Analysis Batch: 47064

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 47012

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00199 | U ** F1 | 0.101 | 0.1519 | F1 | mg/Kg | | 151 | 70 - 130 |
| Toluene | <0.00199 | U ** F1 | 0.101 | 0.1448 | F1 | mg/Kg | | 144 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

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

Lab Sample ID: 880-25104-A-2-B MS

Matrix: Solid

Analysis Batch: 47064

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 47012

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene | <0.00199 | U *+ F1 | 0.101 | 0.1386 | F1 | mg/Kg | | 138 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00398 | U *+ F1 | 0.201 | 0.2810 | F1 | mg/Kg | | 140 | 70 - 130 |
| o-Xylene | <0.00199 | U *+ F1 | 0.101 | 0.1275 | | mg/Kg | | 127 | 70 - 130 |
| Surrogate | %Recovery | MS Qualifier | MS Limits | | | | | | |
| 4-Bromofluorobenzene (Surr) | 215 | S1+ | 70 - 130 | | | | | | |
| 1,4-Difluorobenzene (Surr) | 82 | | 70 - 130 | | | | | | |

Lab Sample ID: 880-25104-A-2-C MSD

Matrix: Solid

Analysis Batch: 47064

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 47012

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | <0.00199 | U *+ F1 | 0.0990 | 0.1597 | F1 | mg/Kg | | 161 | 70 - 130 | 5 | 35 |
| Toluene | <0.00199 | U *+ F1 | 0.0990 | 0.1509 | F1 | mg/Kg | | 152 | 70 - 130 | 4 | 35 |
| Ethylbenzene | <0.00199 | U *+ F1 | 0.0990 | 0.1499 | F1 | mg/Kg | | 151 | 70 - 130 | 8 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U *+ F1 | 0.198 | 0.3011 | F1 | mg/Kg | | 152 | 70 - 130 | 7 | 35 |
| o-Xylene | <0.00199 | U *+ F1 | 0.0990 | 0.1474 | F1 | mg/Kg | | 149 | 70 - 130 | 14 | 35 |
| Surrogate | %Recovery | MSD Qualifier | MSD Limits | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 235 | S1+ | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 76 | | 70 - 130 | | | | | | | | |

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

Lab Sample ID: MB 880-47116/1-A

Matrix: Solid

Analysis Batch: 46992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47116

| 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 | | 02/23/23 17:02 | 02/23/23 20:30 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/23/23 17:02 | 02/23/23 20:30 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/23/23 17:02 | 02/23/23 20:30 | 1 |
| Surrogate | %Recovery | MB Qualifier | MB Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 135 | S1+ | 70 - 130 | | | 02/23/23 17:02 | 02/23/23 20:30 | 1 |
| o-Terphenyl | 138 | S1+ | 70 - 130 | | | 02/23/23 17:02 | 02/23/23 20:30 | 1 |

Lab Sample ID: LCS 880-47116/2-A

Matrix: Solid

Analysis Batch: 46992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47116

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 935.8 | | mg/Kg | | 94 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1034 | | mg/Kg | | 103 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

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

Lab Sample ID: LCS 880-47116/2-A
Matrix: Solid
Analysis Batch: 46992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47116

| | LCS | LCS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 111 | | 70 - 130 |
| o-Terphenyl | 109 | | 70 - 130 |

Lab Sample ID: LCSD 880-47116/3-A
Matrix: Solid
Analysis Batch: 46992

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47116

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|-----------|-----------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 849.0 | | mg/Kg | | 85 | 70 - 130 | 10 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 922.0 | | mg/Kg | | 92 | 70 - 130 | 11 | 20 |
| Surrogate | LCSD | LCSD | | | | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 102 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 103 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 890-4137-1 MS
Matrix: Solid
Analysis Batch: 46992

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 47116

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|--|--|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 1000 | 1169 | | mg/Kg | | 114 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 1000 | 934.3 | | mg/Kg | | 93 | 70 - 130 | | |
| Surrogate | MS | MS | | | | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 108 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 102 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 890-4137-1 MSD
Matrix: Solid
Analysis Batch: 46992

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 47116

| 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 | <49.8 | U | 1000 | 1116 | | mg/Kg | | 108 | 70 - 130 | 5 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 1000 | 897.5 | | mg/Kg | | 90 | 70 - 130 | 4 | 20 |
| Surrogate | MSD | MSD | | | | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 102 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 97 | | 70 - 130 | | | | | | | | |

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QC Sample Results

Client: Ensolum
Project/Site: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46848/1-A

Matrix: Solid

Analysis Batch: 46984

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 | | | 02/22/23 22:21 | 1 |

Lab Sample ID: LCS 880-46848/2-A

Matrix: Solid

Analysis Batch: 46984

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250 | 232.9 | | mg/Kg | | 93 | 90 - 110 |

Lab Sample ID: LCSD 880-46848/3-A

Matrix: Solid

Analysis Batch: 46984

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 | 232.7 | | mg/Kg | | 93 | 90 - 110 | 0 | 20 |

Lab Sample ID: 890-4135-A-1-B MS

Matrix: Solid

Analysis Batch: 46984

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 | <5.02 | U | 251 | 240.6 | | mg/Kg | | 95 | 90 - 110 |

Lab Sample ID: 890-4135-A-1-C MSD

Matrix: Solid

Analysis Batch: 46984

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 | <5.02 | U | 251 | 240.8 | | mg/Kg | | 95 | 90 - 110 | 0 | 20 |

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QC Association Summary

Client: Ensolum
Project/Site: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

GC VOA

Prep Batch: 47012

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-4137-1 | SS01 | Total/NA | Solid | 5035 | |
| 890-4137-2 | SS02 | Total/NA | Solid | 5035 | |
| 890-4137-3 | SS03 | Total/NA | Solid | 5035 | |
| 890-4137-4 | SS04 | Total/NA | Solid | 5035 | |
| MB 880-47012/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-47012/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-47012/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-25104-A-2-B MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-25104-A-2-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 47064

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-4137-1 | SS01 | Total/NA | Solid | 8021B | 47012 |
| 890-4137-2 | SS02 | Total/NA | Solid | 8021B | 47012 |
| 890-4137-3 | SS03 | Total/NA | Solid | 8021B | 47012 |
| 890-4137-4 | SS04 | Total/NA | Solid | 8021B | 47012 |
| MB 880-47012/5-A | Method Blank | Total/NA | Solid | 8021B | 47012 |
| LCS 880-47012/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 47012 |
| LCSD 880-47012/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 47012 |
| 880-25104-A-2-B MS | Matrix Spike | Total/NA | Solid | 8021B | 47012 |
| 880-25104-A-2-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 47012 |

Analysis Batch: 47483

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-4137-1 | SS01 | Total/NA | Solid | Total BTEX | |
| 890-4137-2 | SS02 | Total/NA | Solid | Total BTEX | |
| 890-4137-3 | SS03 | Total/NA | Solid | Total BTEX | |
| 890-4137-4 | SS04 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 46992

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-4137-1 | SS01 | Total/NA | Solid | 8015B NM | 47116 |
| 890-4137-2 | SS02 | Total/NA | Solid | 8015B NM | 47116 |
| 890-4137-3 | SS03 | Total/NA | Solid | 8015B NM | 47116 |
| 890-4137-4 | SS04 | Total/NA | Solid | 8015B NM | 47116 |
| MB 880-47116/1-A | Method Blank | Total/NA | Solid | 8015B NM | 47116 |
| LCS 880-47116/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 47116 |
| LCSD 880-47116/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 47116 |
| 890-4137-1 MS | SS01 | Total/NA | Solid | 8015B NM | 47116 |
| 890-4137-1 MSD | SS01 | Total/NA | Solid | 8015B NM | 47116 |

Prep Batch: 47116

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 890-4137-1 | SS01 | Total/NA | Solid | 8015NM Prep | |
| 890-4137-2 | SS02 | Total/NA | Solid | 8015NM Prep | |
| 890-4137-3 | SS03 | Total/NA | Solid | 8015NM Prep | |
| 890-4137-4 | SS04 | Total/NA | Solid | 8015NM Prep | |
| MB 880-47116/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-47116/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: Ensolum
Project/Site: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

GC Semi VOA (Continued)

Prep Batch: 47116 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| LCSD 880-47116/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-4137-1 MS | SS01 | Total/NA | Solid | 8015NM Prep | |
| 890-4137-1 MSD | SS01 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 47180

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-4137-1 | SS01 | Total/NA | Solid | 8015 NM | |
| 890-4137-2 | SS02 | Total/NA | Solid | 8015 NM | |
| 890-4137-3 | SS03 | Total/NA | Solid | 8015 NM | |
| 890-4137-4 | SS04 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 46848

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-4137-1 | SS01 | Soluble | Solid | DI Leach | |
| 890-4137-2 | SS02 | Soluble | Solid | DI Leach | |
| 890-4137-3 | SS03 | Soluble | Solid | DI Leach | |
| 890-4137-4 | SS04 | Soluble | Solid | DI Leach | |
| MB 880-46848/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-46848/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-46848/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-4135-A-1-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-4135-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 46984

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4137-1 | SS01 | Soluble | Solid | 300.0 | 46848 |
| 890-4137-2 | SS02 | Soluble | Solid | 300.0 | 46848 |
| 890-4137-3 | SS03 | Soluble | Solid | 300.0 | 46848 |
| 890-4137-4 | SS04 | Soluble | Solid | 300.0 | 46848 |
| MB 880-46848/1-A | Method Blank | Soluble | Solid | 300.0 | 46848 |
| LCS 880-46848/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 46848 |
| LCSD 880-46848/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 46848 |
| 890-4135-A-1-B MS | Matrix Spike | Soluble | Solid | 300.0 | 46848 |
| 890-4135-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 46848 |

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Lab Chronicle

Client: Ensolum
Project/Site: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

Client Sample ID: SS01
Date Collected: 02/17/23 09:05
Date Received: 02/17/23 15:26

Lab Sample ID: 890-4137-1
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 | | | 5.01 g | 5 mL | 47012 | 02/23/23 11:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 47064 | 02/23/23 22:39 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 47483 | 02/28/23 16:48 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 47180 | 02/24/23 13:40 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 47116 | 02/23/23 17:02 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46992 | 02/23/23 21:37 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 46848 | 02/21/23 13:16 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 46984 | 02/22/23 23:10 | CH | EET MID |

Client Sample ID: SS02
Date Collected: 02/17/23 09:00
Date Received: 02/17/23 15:26

Lab Sample ID: 890-4137-2
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 | | | 4.98 g | 5 mL | 47012 | 02/23/23 11:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 47064 | 02/23/23 23:06 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 47483 | 02/28/23 16:48 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 47180 | 02/24/23 13:40 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 47116 | 02/23/23 17:02 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46992 | 02/23/23 22:43 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 46848 | 02/21/23 13:16 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 46984 | 02/22/23 23:17 | CH | EET MID |

Client Sample ID: SS03
Date Collected: 02/17/23 08:55
Date Received: 02/17/23 15:26

Lab Sample ID: 890-4137-3
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 | | | 5.05 g | 5 mL | 47012 | 02/23/23 11:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 47064 | 02/23/23 23:32 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 47483 | 02/28/23 16:48 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 47180 | 02/24/23 13:40 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 47116 | 02/23/23 17:02 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46992 | 02/23/23 23:06 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 46848 | 02/21/23 13:16 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 46984 | 02/22/23 23:35 | CH | EET MID |

Client Sample ID: SS04
Date Collected: 02/17/23 08:50
Date Received: 02/17/23 15:26

Lab Sample ID: 890-4137-4
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 | | | 5.03 g | 5 mL | 47012 | 02/23/23 11:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 47064 | 02/23/23 23:58 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 47483 | 02/28/23 16:48 | AJ | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

Client Sample ID: SS04

Lab Sample ID: 890-4137-4

Date Collected: 02/17/23 08:50

Matrix: Solid

Date Received: 02/17/23 15:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 47180 | 02/24/23 13:40 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 47116 | 02/23/23 17:02 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46992 | 02/23/23 23:27 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 46848 | 02/21/23 13:16 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 46984 | 02/22/23 23:41 | 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: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

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 |

Method Summary

Client: Ensolum
Project/Site: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

| 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 | EPA | 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
- EPA = US Environmental Protection Agency
- 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: Battle Axe Liner

Job ID: 890-4137-1
SDG: 03D2024137

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-4137-1 | SS01 | Solid | 02/17/23 09:05 | 02/17/23 15:26 | 0.5 |
| 890-4137-2 | SS02 | Solid | 02/17/23 09:00 | 02/17/23 15:26 | 0.5 |
| 890-4137-3 | SS03 | Solid | 02/17/23 08:55 | 02/17/23 15:26 | 0.5 |
| 890-4137-4 | SS04 | Solid | 02/17/23 08:50 | 02/17/23 15:26 | 0.5 |

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



Environment Testing

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

| | | | |
|------------------|---------------------------------|-------------------------|---|
| Project Manager: | Hoddie Green | Bill to: (if different) | Kadei Jennings |
| Company Name: | Ensclum LLC | Company Name: | Ensclum LLC |
| Address: | 601 N. Macarfield St. Suite 400 | Address: | 601 N. Macarfield St. Suite 400 |
| City, State ZIP: | Midland, TX 79701 | City, State ZIP: | Midland, TX 79701 |
| Phone: | 432-557-8895 | Email: | kjennings@ensclum.com, hgreen@ensclum.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: _____ | |

[illegible][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 ₂ Na Sr Ti Sn U V Zn | |
| Circle Method(s) and Metal(s) to be analyzed | | TCP / 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 | |
| <p>Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenico, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenico 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 Xenico. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenico, but not analyzed. These terms will be enforced unless previously negotiated.</p> | | | | | |
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>Teri Lin</i> | <i>Chris Day</i> | 2.17.23 15:34 | | | |
| 1 | | 4 | | | |
| 3 | | | | | |
| 5 | | 6 | | | |

Printed Date: 02/15/2023 09:20:02

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4137-1

SDG Number: 03D2024137

Login Number: 4137

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: 890-4137-1

SDG Number: 03D2024137

Login Number: 4137

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 02/21/23 11:18 AM

| 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. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| 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"). | True | |



APPENDIX E

NMOCD Notifications

From: [Enviro, OCD, EMNRD](#)
To: [Kalei Jennings](#)
Cc: [Bratcher, Michael, EMNRD](#); [Nobui, Jennifer, EMNRD](#)
Subject: RE: [EXTERNAL] COP - Containment Inspection - Battle Axe CTB / NAPP2300341479
Date: Tuesday, January 17, 2023 9:20:18 AM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

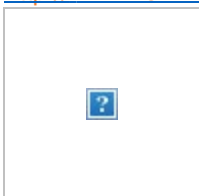
[**EXTERNAL EMAIL**]

Kalei,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Kalei Jennings <kjennings@ensolum.com>
Sent: Monday, January 16, 2023 7:10 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Hadlie Green <hgreen@ensolum.com>
Subject: [EXTERNAL] COP - Containment Inspection - Battle Axe CTB / NAPP2300341479

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom It May Concern,

Below is a 48-hour email notification for liner inspection at ConocoPhillips (COP) Battle Axe CTB / Spill Date 12/25/2022. This is a 48-hour notification that Ensolum is scheduled to inspect this lined containment on behalf of COP on Wednesday, January 18, 2023, at 1100 MST. Please call with any questions or concerns.

GPS: 32.0188, -103.6561

Thank you,



Kalei Jennings

Senior Scientist

817-683-2503

Ensolum, LLC



From: [Enviro, OCD, EMNRD](#)
To: [Kalei Jennings](#)
Cc: [Bratcher, Michael, EMNRD](#); [Nobui, Jennifer, EMNRD](#)
Subject: RE: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 02/20/2023)
Date: Friday, February 17, 2023 9:14:34 AM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

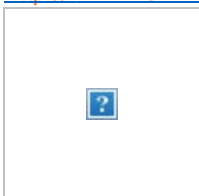
[**EXTERNAL EMAIL**]

Kalei,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Kalei Jennings <kjennings@ensolum.com>
Sent: Thursday, February 16, 2023 11:01 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Hadlie Green <hgreen@ensolum.com>
Subject: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 02/20/2023)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

ConocoPhillips Company (COP) plans to complete final sampling activities at the following sites the week of February 20, 2023.

- Wild Cobra 1 State 002H / NAPP2233946889
- Eider 35 Federal CTB / NAPP2236141484
- Battle Axe CTB / NAPP2300341479

Thank you,



Kalei Jennings

Senior Scientist

817-683-2503

Ensolum, LLC





APPENDIX F

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 | NAPP2300341479 |
| District RP | |
| Facility ID | fAPP2201330696 |
| Application ID | |

Release Notification

Responsible Party

| | | | |
|-------------------------|--|------------------------------|----------------|
| Responsible Party | ConocoPhillips | OGRID | 217817 |
| Contact Name | Charles Beauvais | Contact Telephone | (575) 748-1570 |
| Contact email | Charles.R.Beauvais@ConocoPhillips.com | Incident # (assigned by OCD) | NAPP2300341479 |
| Contact mailing address | 600 West Illinois Avenue, Midland, Texas 79701 | | |

Location of Release Source

Latitude 32.0188 Longitude -103.6561
(NAD 83 in decimal degrees to 5 decimal places)

| | | | |
|-------------------------|-------------------|----------------------|--------------|
| Site Name | Battle Axe CTB | Site Type | Tank Battery |
| Date Release Discovered | December 25, 2022 | API# (if applicable) | |

| | | | | |
|-------------|---------|----------|-------|--------|
| Unit Letter | Section | Township | Range | County |
| A | 27 | 26S | 32E | Lea |

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 checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) 7.9 | Volume Recovered (bbls) 7.9 |
| <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 leak from the flare scrubber.
The release occurred within a lined facility. A vacuum truck was dispatched to remove all freestanding fluids. Evaluation will be made of the spill area for any possible impact from the release.

| | |
|----------------|----------------|
| Incident ID | NAPP2300341479 |
| District RP | |
| Facility ID | fAPP2201330696 |
| Application ID | |

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

Initial Response

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

| | |
|---|--|
| <div style="display: flex; flex-direction: column; gap: 10px;"><div><input type="checkbox"/> The source of the release has been stopped.</div><div><input type="checkbox"/> The impacted area has been secured to protect human health and the environment.</div><div><input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.</div><div><input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.</div></div> | |
| <p>If all the actions described above have <u>not</u> been undertaken, explain why:</p> | |
| <p>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.</p> | |
| <p>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.</p> | |
| <p>Printed Name <u>Brittany N. Esparza</u></p> <p>Signature: <u></u></p> <p>email: <u>Brittany.Esparza@ConocoPhillips.com</u></p> | <p>Title: <u>Environmental Technician</u></p> <p>Date: <u>01/03/2023</u></p> <p>Telephone: <u>(432) 221-0398</u></p> |
| <p><u>OCD Only</u></p> | |
| <div style="display: flex; justify-content: space-between;"><div>Received by: <u>Jocelyn Harimon</u></div><div>Date: <u>01/03/2022</u></div></div> | |

Spill Calculation - On-Pad Surface Pool Spill

NAPP2300341479

| Convert Irregular shape into a series of rectangles | Length (ft.) | Width (ft.) | Average Depth (in.) | Estimated <u>Pool</u> Area (sq. ft.) | Estimated volume of each pool area (bbl.) | Penetration allowance (ft.) | Total Estimated Volume of Spill (bbl.) |
|---|--------------|-------------|---------------------|--------------------------------------|---|-----------------------------|--|
| Rectangle A | 9.00 | 10.00 | 6.00 | 90.00 | 8.01 | 0.03 | 8.21 |
| Rectangle B | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Rectangle C | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Rectangle D | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Rectangle E | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Rectangle F | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Rectangle G | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Rectangle H | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Rectangle I | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Rectangle J | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Volume Release, Soil not impacted: | | | | | | | 7.80 |

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 171693

CONDITIONS

| | |
|--|---|
| Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701 | OGRID: 217817 |
| | Action Number: 171693 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| jharimon | None | 1/3/2023 |

| | |
|----------------|----------------|
| Incident ID | NAPP2300341479 |
| District RP | |
| Facility ID | fAPP2201330696 |
| 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>>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 not 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

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| Incident ID | NAPP2300341479 |
| District RP | |
| Facility ID | fAPP2201330696 |
| 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: __Jacob Laird__

Title: _Environmental Engineer__

Signature: Jacob Laird

Date: ____3/24/2023__

email: __Jacob.Laird@conocophillips.com__

Telephone: __575-703-5482__

OCD OnlyReceived by: Jocelyn HarimonDate: 03/27/2023

| | |
|----------------|----------------|
| Incident ID | NAPP2300341479 |
| District RP | |
| Facility ID | fAPP2201330696 |
| 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: __Jacob Laird__ Title: __Environmental Engineer__
Signature: *Jacob Laird* Date: __3/24/2023__
email: __Jacob.Laird@conocophillips.com__ Telephone: __575-703-5482__

OCD Only

Received by: __Jocelyn Harimon__ Date: __03/27/2023__

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: __04/27/2023__
Printed Name: __Jennifer Nobui__ Title: __Environmental Specialist A__

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 200645

CONDITIONS

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|--|---|
| Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701 | OGRID: 217817 |
| | Action Number: 200645 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

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|------------|--------------------------|----------------|
| Created By | Condition | Condition Date |
| jnobui | Closure Report Approved. | 4/27/2023 |