



October 25, 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: Revised Remediation Work Plan
Cabo Wabo Federal Com 704H, 705H & 706H
Incident Number NAPP2301334575
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared the following *Revised Remediation Work Plan* (Revised Work Plan) for the Cabo Wabo Federal Com 704H, 705H, & 706H (Site). This *Revised Work Plan* documents assessment and soil sampling activities completed to date and proposes additional remediation activities in response to the denial of the original *Remediation Work Plan* (Work Plan) submitted to the New Mexico Oil Conservation Division (NMOCD) on April 4, 2023. NMOCD denied the original Work Plan on August 18, 2023, for the following reasons:

- The Remediation Plan is Denied. Limited soil removal around subsurface pipelines is denied. Contaminated soil should be removed safely with alternative methods. Due to the sensitive nature of the release location, the variance for 500 ft² confirmation samples is denied. Please collect confirmation samples, representing no more than 200 ft². Off-pad, all horizontal delineation samples must come from the sidewalls of the excavation. All samples must be analyzed for constituents listed in Table I of 19.15.29.13 NMAC. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed.

BACKGROUND

The Site is located in Unit O, Section 26, Township 25 South, Range 29 East, in Eddy County, New Mexico (32.0963°, -103.9541°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On December 30, 2022, a pump housing leak resulted in the release of approximately 14.8 barrels (bbls) of treated produced water onto a right-of-way (ROW) adjacent to an access road. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 14 bbls of treated produced water were recovered. COG reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on January 13, 2023. The release was assigned Incident Number NAPP2301334575.

The April 4, 2023, *Work Plan* detailed site characterization according to 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 site characterization are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential 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): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On January 27, 2023, Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Nine assessment soil samples (SS01 through SS09) were collected within and around the observed release extent at a depth of approximately 0.5 feet bgs. Assessment soil samples SS01 through SS05 were collected within the release extent to assess the surficial soil within the release. Assessment soil samples SS06 through SS09 were collected around release extent to confirm the lateral extent of the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix A.

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

Laboratory analytical results for assessment samples SS01 through SS05, collected within the release extent, indicated chloride concentrations exceeded the Site Closure Criteria. Laboratory analytical results for assessment soil samples SS06 through SS09, collected around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and confirmed the lateral extent of the release. Based on the laboratory analytical results, additional assessment activities were warranted to delineate the vertical extent of impacted soil within the release extent.

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On February 15, 2023, Ensolum personnel returned to the Site to assess the vertical extent of impacted soil within the release extent. Boreholes were advanced via hand auger to depths ranging from 2 feet to 4 feet bgs at the location of assessment samples SS01 through SS05. Soil from the boreholes was field screened at 1-foot intervals for VOCs and chloride. Final depth of the boreholes was determined by field screening results indicating compliance with the Site Closure Criteria or hand auger refusal (SS02). Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B. Based on field screening results, two delineation soil samples were collected from each borehole; the sample with the highest field screening result and the sample from the final borehole depth.

The delineation soil samples were collected, handled and analyzed following the same procedures previously described. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and is included in Appendix A.

Laboratory analytical results for the delineation soil samples collected from boreholes SS01 through SS05 indicated chloride impacted soil was present within the release extent to depths ranging from 1-foot to 4 feet bgs. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix C.

Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the delineation soil samples, additional remediation activities were warranted.

PROPOSED REMEDIATION WORK PLAN

Laboratory analytical results for the delineation soil samples indicate soil containing elevated chloride concentrations is present across the 8,929 square foot release area to depths ranging from 1-foot to 4 feet bgs. As such, COG proposes to complete the following remediation activities:

- Vertical delineation to below the Site Closure Criteria at the location of assessment sample SS02. Soil will be field screened at 1-foot intervals for VOCs and chloride. Soil samples with the highest field screening result and deepest depth will be submitted for laboratory analysis of BTEX, TPH, and chloride.
- Impacted soil will be excavated from the release area based on laboratory analytical results from the delineation activities. Excavation will proceed laterally and vertically until sidewall and floor samples are compliant with the Site Closure Criteria.
- Following excavation of impacted soil, 5-point composite confirmation samples will be collected at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation soil samples will be submitted for laboratory analysis of BTEX, TPH, and chloride.
- The impacted soil will be transferred to a New Mexico approved landfill facility for disposal. The excavation will be backfilled and recontoured to match pre-existing conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture.
- Following the delineation and excavation activities, COG will provide NMOCD with a final report detailing the remediation activities and requesting closure.

COG will complete the delineation and excavation activities within 90 days of the date of approval of this *Revised Work Plan* by the NMOCD. COG believes the scope of work described above meets the requirements set forth in 19.15.29.13 NMAC and is protective of human health, the environment, and groundwater. As such, COG respectfully requests approval of this *Revised Work Plan* from NMOCD. The Final C-141 is included as Appendix E.

COG Operating, LLC
Revised Remediation Work Plan
Cabo Wabo Federal Com 704H, 705H & 706H



If you have any questions or comments, please contact Ms. Hadlie Green at (432) 557-8895 or hgreen@ensolum.com.

Sincerely,
Ensolum, LLC

A handwritten signature in black ink that reads "Hadlie Green".

Hadlie Green
Project Geologist

A handwritten signature in black ink that reads "Aimee Cole".

Aimee Cole
Senior Managing Scientist

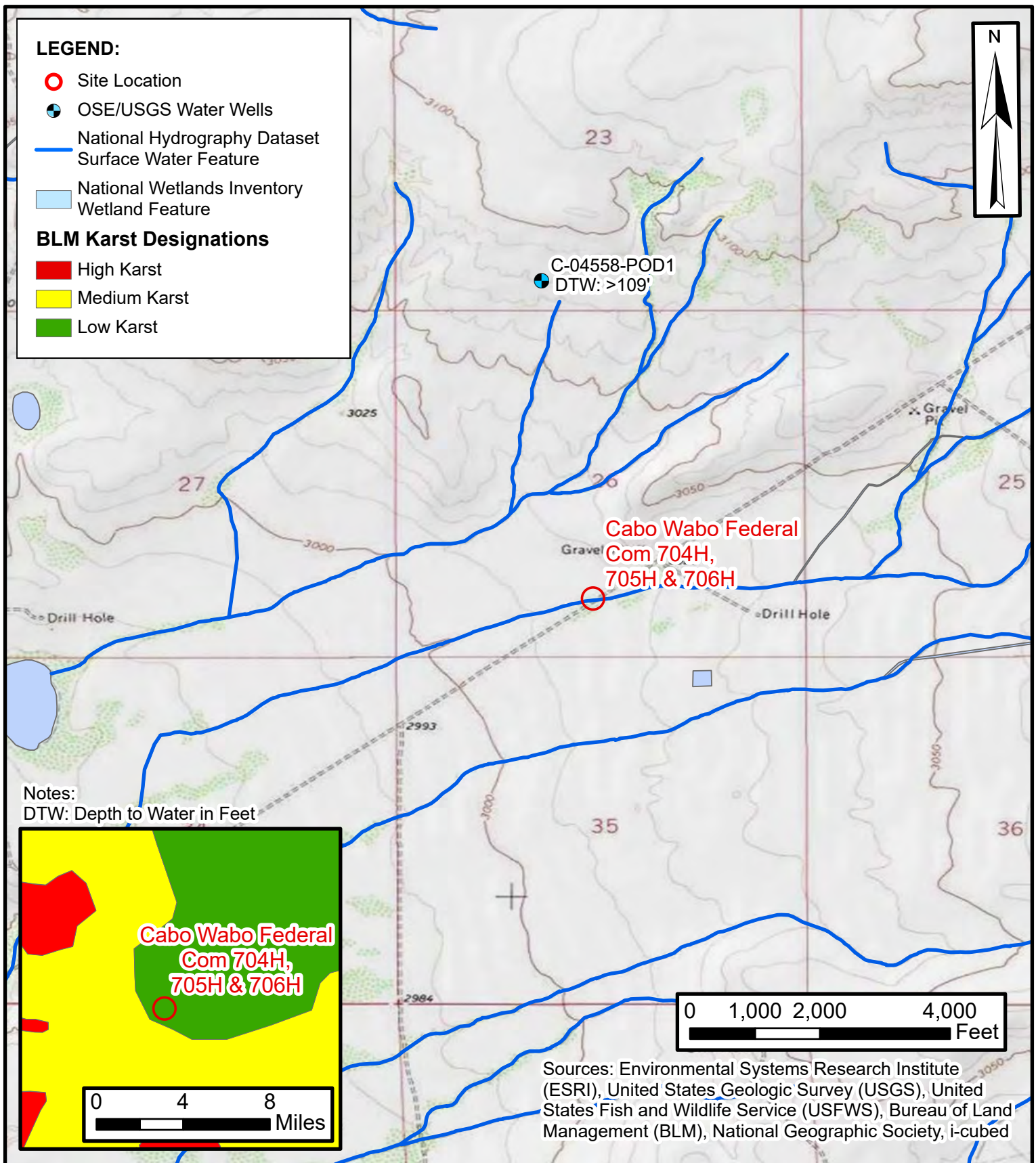
cc: Justin Carlile, COG Operating, LLC
New Mexico Bureau of Land Management

Appendices:

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



FIGURES

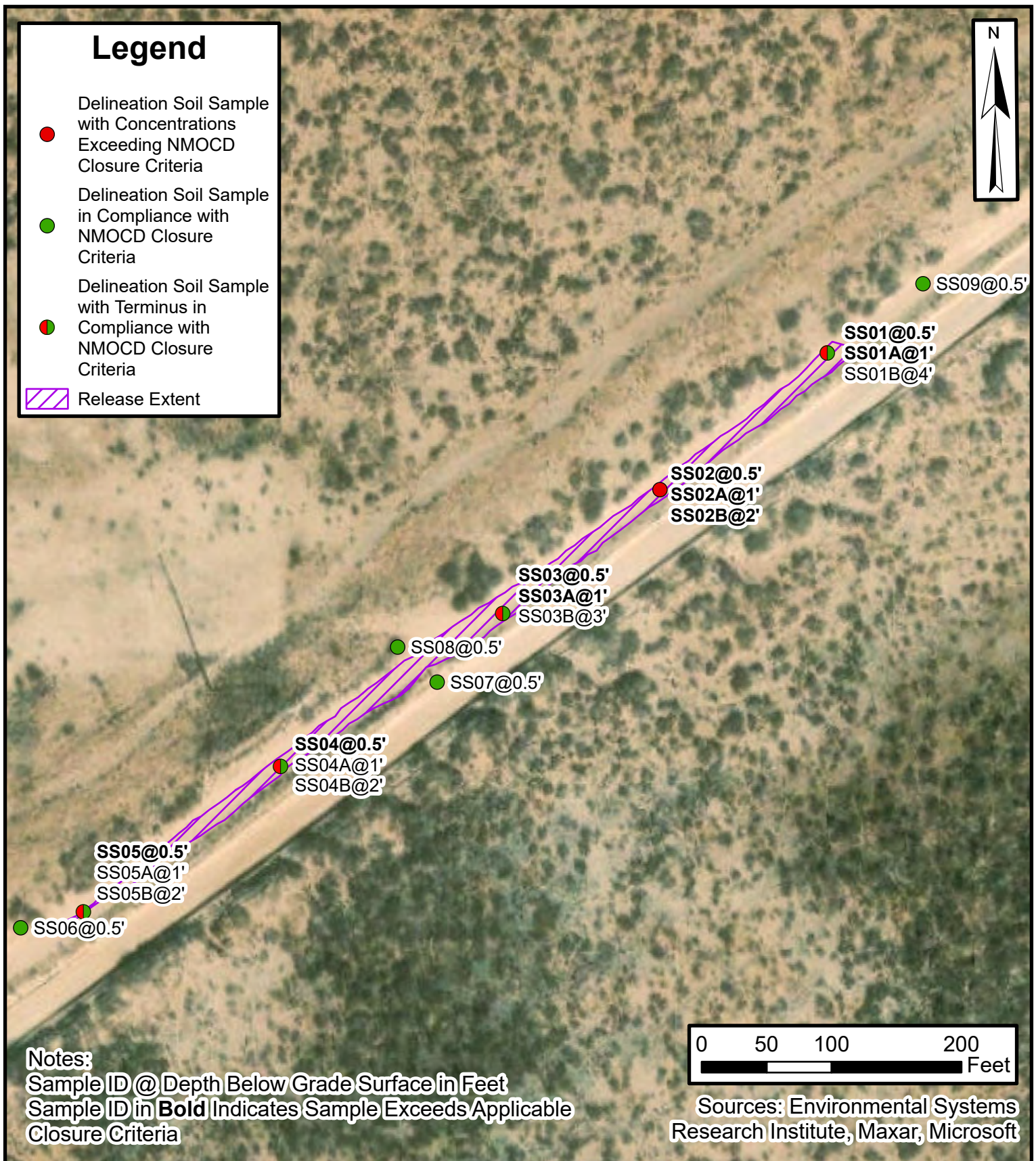


Site Location Map

COG Operating, LLC
Cabo Wabo Federal Com 704H, 705H & 706H
Unit O, Sec 26, T25S, R29E
Eddy County, New Mexico

FIGURE

1



Delineation Soil Sample Locations

COG Operating, LLC
 Cabo Wabo Federal Com 704H, 705H & 706H
 Unit O, Sec 26, T25S, R29E
 Eddy County, New Mexico

FIGURE
2



TABLE



| TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Cabo Wabo Federal Com 704H, 705H & 706H COG Operating, LLC Eddy 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 | NE | 100 | 600 |
| Delineation Soil Samples | | | | | | | | | | |
| SS01 | 01/27/2023 | 0.5 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 2,350 |
| SS01A | 02/15/2023 | 1 | <0.00199 | <0.00398 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 797 |
| SS01B | 02/15/2023 | 4 | <0.00202 | <0.00403 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 599 |
| SS02 | 01/27/2023 | 0.5 | <0.00202 | <0.00403 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 2,620 |
| SS02A | 02/15/2023 | 1 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 2,630 |
| SS02B | 02/15/2023 | 2 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,230 |
| SS03 | 01/27/2023 | 0.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 2,100 |
| SS03A | 02/15/2023 | 1 | <0.00200 | <0.00401 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 717 |
| SS03B | 02/15/2023 | 3 | <0.00200 | <0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 374 |
| SS04 | 01/27/2023 | 0.5 | <0.00198 | <0.00396 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 3,640 |
| SS04A | 02/15/2023 | 1 | <0.00200 | <0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 15.4 |
| SS04B | 02/15/2023 | 2 | <0.00198 | <0.00397 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 240 |
| SS05 | 01/27/2023 | 0.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 6,410 |
| SS05A | 02/15/2023 | 1 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 45.7 |
| SS05B | 02/15/2023 | 2 | <0.00200 | <0.00400 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 108 |
| SS06 | 01/27/2023 | 0.5 | <0.00200 | <0.00399 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 79.4 |
| SS07 | 01/27/2023 | 0.5 | <0.00201 | <0.00402 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 16.7 |
| SS08 | 01/27/2023 | 0.5 | <0.00200 | <0.00401 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 11.1 |
| SS09 | 01/27/2023 | 0.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | <4.98 |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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



APPENDIX A

Photographic Log



Photographic Log

COG Operating, LLC

Cabo Wabo Federal Com 704H, 705H & 706H

Incident Number NAPP2301334575

East Elevation

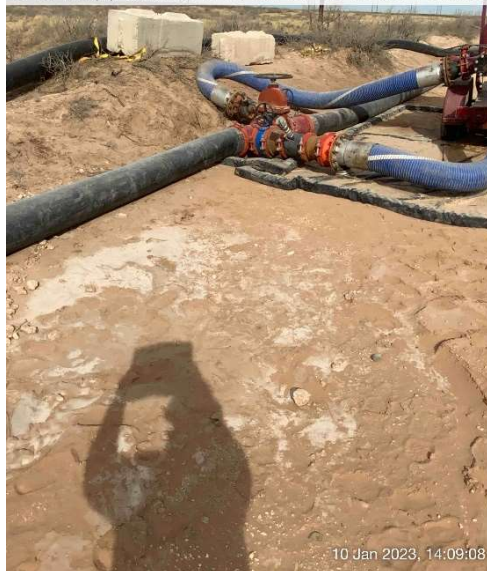
☉ 261°W (T) ☉ 32°5'47"N, 103°57'15"W ±9ft ▲ 3021ft



10 Jan 2023, 14:08:57

South West Elevation

☉ 46°NE (T) ☉ 32°5'47"N, 103°57'15"W ±9ft ▲ 3020ft



10 Jan 2023, 14:09:08

Photograph 1

Date: 12/30/2022

Description: Initial release discovery

View: East

Photograph 2

Date: 12/30/2022

Description: Initial release discovery

View: Southwest

West Elevation

☉ 85°E (T) ☉ 32°5'44"N, 103°57'20"W ±9ft ▲ 3016ft



10 Jan 2023, 14:06:22

Photograph 3

Date: 12/30/2022

Description: Initial release discovery

View: West



Photograph 4

Date: 2/15/2023


Description: Sampling in southern release area


View: Northeast





APPENDIX B


Lithologic Soil Sampling Logs

|  | | | | | | | | Sample Name: SS01 | | Date: 2/15/2023 | | | |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|--------------------|--|-----|--|
| | | | | | | | | Site Name: Cabo Wabo Federal Com 704H, 705H & 706H | | | | | |
| | | | | | | | | Incident Number: NAPP2301334575 | | | | | |
| | | | | | | | | Job Number: 03D2024145 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Peter Van Patten | | Method: Hand Auger | | | |
| Coordinates: 32.0966,-103.9544 | | | | | | | | 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 is included in the reported chloride concentrations. | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | |
| No | 8,534 | 0.8 | No | SS01 | 0.5 | 0 | SP-SM | SAND with silt and gravel: light brown to dark tan, poorly graded, medium to fine grained, trace small subrounded gravel, no stain, no odor Same as above (SAA) | | | | | |
| No | 1,181 | 1.7 | No | SS01A | 1 | 1 | SP-SM | | | | | | |
| No | 1,590 | 1.8 | No | | | | | | | | | | |
| No | 1,377 | 1.2 | No | | | 2 | SP-SM | | | | | SAA | |
| No | 1,181 | 1.5 | No | | | 3 | SP-SM | | | | | SAA | |
| No | 845 | 1.8 | No | SS01B | 4 | 4 | SP-SM | | | | | SAA | |
| | | | | | | | TD | Total depth (TD) at 4-feet below ground surface | | | | | |
| | | | | | | 5 | | | | | | | |
| | | | | | | 6 | | | | | | | |
| | | | | | | 7 | | | | | | | |
| | | | | | | 8 | | | | | | | |
| | | | | | | 9 | | | | | | | |
| | | | | | | 10 | | | | | | | |
| | | | | | | 11 | | | | | | | |
| | | | | | | 12 | | | | | | | |

|  | | | | | | | | Sample Name: SS02 | | Date: 2/15/2023 | | | |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|--------------------|--|--|--|
| | | | | | | | | Site Name: Cabo Wabo Federal Com 704H, 705H & 706H | | | | | |
| | | | | | | | | Incident Number: NAPP2301334575 | | | | | |
| | | | | | | | | Job Number: 03D2024145 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Peter Van Patten | | Method: Hand Auger | | | |
| Coordinates: 32.0963,-103.9548 | | | | | | | | Hole Diameter: 4" | | Total Depth: 2' | | | |
| 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 is included in the reported chloride concentrations. | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | |
| No | 2,402 | 0.7 | No | SS02 | 0.5 | 0 | SP-SM | SAND with silt and gravel: light brown to dark tan, poorly graded, medium to fine grained, trace small subrounded gravel, no stain, no odor Same as above (SAA) | | | | | |
| No | 3,421 | 1.3 | No | SS02A | 1 | 1 | SP-SM | | | | | | |
| No | 1,960 | 1.4 | No | | | | | | | | | | |
| No | 1,708 | 1.2 | No | SS02B | 2 | 2 | SP-SM | | | | | | |
| | | | | | | | TD | SAA, hand auger refusal | | | | | |
| | | | | | | 3 | | Total depth (TD) at 2-feet below ground surface | | | | | |
| | | | | | | 4 | | | | | | | |
| | | | | | | 5 | | | | | | | |
| | | | | | | 6 | | | | | | | |
| | | | | | | 7 | | | | | | | |
| | | | | | | 8 | | | | | | | |
| | | | | | | 9 | | | | | | | |
| | | | | | | 10 | | | | | | | |
| | | | | | | 11 | | | | | | | |
| | | | | | | 12 | | | | | | | |

|  | | | | | | | | Sample Name: SS03 | | Date: 2/15/2023 | | | |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|--------------------|--|--|--|
| | | | | | | | | Site Name: Cabo Wabo Federal Com 704H, 705H & 706H | | | | | |
| | | | | | | | | Incident Number: NAPP2301334575 | | | | | |
| | | | | | | | | Job Number: 03D2024145 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Peter Van Patten | | Method: Hand Auger | | | |
| Coordinates: 32.0961,-103.9552 | | | | | | | | Hole Diameter: 4" | | Total Depth: 3' | | | |
| 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 is included in the reported chloride concentrations. | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | |
| No | 2,755 | 0.7 | No | SS03 | 0.5 | 0 | SP-SM | SAND with silt and gravel: light brown to dark tan, poorly graded, medium to fine grained, trace small subrounded gravel, no stain, no odor Same as above (SAA) SAA SAA | | | | | |
| No | 1,092 | 0.6 | No | SS03A | 1 | 1 | SP-SM | | | | | | |
| No | 515 | 0.5 | No | | | 2 | SP-SM | | | | | | |
| No | 459 | 1.3 | No | SS03B | 3 | 3 | SP-SM | | | | | | |
| | | | | | | | TD | Total depth (TD) at 3-feet below ground surface | | | | | |
| | | | | | | 4 | | | | | | | |
| | | | | | | 5 | | | | | | | |
| | | | | | | 6 | | | | | | | |
| | | | | | | 7 | | | | | | | |
| | | | | | | 8 | | | | | | | |
| | | | | | | 9 | | | | | | | |
| | | | | | | 10 | | | | | | | |
| | | | | | | 11 | | | | | | | |
| | | | | | | 12 | | | | | | | |

|  | | | | | | | | Sample Name: SS04 | | Date: 2/15/2023 | | | |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|--------------------|--|--|--|
| | | | | | | | | Site Name: Cabo Wabo Federal Com 704H, 705H & 706H | | | | | |
| | | | | | | | | Incident Number: NAPP2301334575 | | | | | |
| | | | | | | | | Job Number: 03D2024145 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Peter Van Patten | | Method: Hand Auger | | | |
| Coordinates: 32.0958,-103.9558 | | | | | | | | Hole Diameter: 4" | | Total Depth: 2' | | | |
| 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 is included in the reported chloride concentrations. | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | |
| No | 7,291 | 0.7 | No | SS04 | 0.5 | 0 | SP-SM | SAND with silt and gravel: light brown to dark tan, poorly graded, medium to fine grained, trace small subrounded gravel, no stain, no odor Same as above (SAA), ND = Non Detect, <173ppm SAA | | | | | |
| No | ND | 1.3 | No | SS04A | 1 | 1 | SP-SM | | | | | | |
| No | 364 | 1.6 | No | SS04B | 2 | 2 | SP-SM | | | | | | |
| | | | | | | | TD | Total depth (TD) at 2-feet below ground surface | | | | | |
| | | | | | | 3 | | | | | | | |
| | | | | | | 4 | | | | | | | |
| | | | | | | 5 | | | | | | | |
| | | | | | | 6 | | | | | | | |
| | | | | | | 7 | | | | | | | |
| | | | | | | 8 | | | | | | | |
| | | | | | | 9 | | | | | | | |
| | | | | | | 10 | | | | | | | |
| | | | | | | 11 | | | | | | | |
| | | | | | | 12 | | | | | | | |

|  | | | | | | | | Sample Name: SS05 | | Date: 2/15/2023 | | | |
|--|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|--------------------|--|--|--|
| | | | | | | | | Site Name: Cabo Wabo Federal Com 704H, 705H & 706H | | | | | |
| | | | | | | | | Incident Number: NAPP2301334575 | | | | | |
| | | | | | | | | Job Number: 03D2024145 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Peter Van Patten | | Method: Hand Auger | | | |
| Coordinates: 32.0955,-103.9563 | | | | | | | | Hole Diameter: 4" | | Total Depth: 2' | | | |
| 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 is included in the reported chloride concentrations. | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | |
| No | 5,728 | 1.4 | No | SS05 | 0.5 | 0 | SP-SM | SAND with silt and gravel: light brown to dark tan, poorly graded, medium to fine grained, trace small subrounded gravel, no stain, no odor Same as above (SAA), ND = Non Detect, <173ppm SAA | | | | | |
| No | ND | 1.3 | No | SS05A | 1 | 1 | SP-SM | | | | | | |
| No | 173 | 1.3 | No | SS05B | 2 | 2 | SP-SM | | | | | | |
| | | | | | | | TD | Total depth (TD) at 2-feet below ground surface | | | | | |
| | | | | | | 3 | | | | | | | |
| | | | | | | 4 | | | | | | | |
| | | | | | | 5 | | | | | | | |
| | | | | | | 6 | | | | | | | |
| | | | | | | 7 | | | | | | | |
| | | | | | | 8 | | | | | | | |
| | | | | | | 9 | | | | | | | |
| | | | | | | 10 | | | | | | | |
| | | | | | | 11 | | | | | | | |
| | | | | | | 12 | | | | | | | |



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/10/2023 12:03:50 PM

JOB DESCRIPTION

Sprayberry Booster Pump
SDG NUMBER 03D2024145

JOB NUMBER

890-3974-1

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
2/10/2023 12:03:50 PM

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

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Laboratory Job ID: 890-3974-1
SDG: 03D2024145

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Definitions/Glossary

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

Qualifiers

GC VOA

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

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| S1- | Surrogate recovery exceeds control limits, 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 |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

Job ID: 890-3974-1

Laboratory: Eurofins Carlsbad

| Narrative | Job Narrative 890-3974-1 |
|-----------|-----------------------------|
|-----------|-----------------------------|

Receipt

The samples were received on 1/27/2023 2:06 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 (890-3974-1), SS02 (890-3974-2), SS03 (890-3974-3), SS04 (890-3974-4) and SS05 (890-3974-5).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-45703 and analytical batch 880-45833 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-3967-A-1-D MS) and (890-3967-A-1-E MSD). 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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-45095 and analytical batch 880-45420 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

Client Sample ID: SS01

Lab Sample ID: 890-3974-1

Date Collected: 01/27/23 09:35

Matrix: Solid

Date Received: 01/27/23 14:06

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 | | 02/08/23 13:25 | 02/08/23 19:31 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:31 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:31 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:31 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:31 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:31 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 19:31 | 1 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 19:31 | 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 | | | 02/09/23 08:41 | 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 | | | 02/10/23 10:51 | 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 | | 02/07/23 13:15 | 02/10/23 03:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/07/23 13:15 | 02/10/23 03:42 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/07/23 13:15 | 02/10/23 03:42 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 93 | | 70 - 130 | 02/07/23 13:15 | 02/10/23 03:42 | 1 |
| o-Terphenyl | 105 | | 70 - 130 | 02/07/23 13:15 | 02/10/23 03:42 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2350 | F1 | 25.1 | mg/Kg | | | 02/03/23 21:46 | 5 |

Client Sample ID: SS02

Lab Sample ID: 890-3974-2

Date Collected: 01/27/23 09:40

Matrix: Solid

Date Received: 01/27/23 14:06

Sample Depth: 0.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:57 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:57 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:57 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:57 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:57 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:57 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 117 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 19:57 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

Client Sample ID: SS02

Lab Sample ID: 890-3974-2

Date Collected: 01/27/23 09:40

Matrix: Solid

Date Received: 01/27/23 14:06

Sample Depth: 0.5'

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 19:57 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 02/09/23 08:41 | 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 | | | 02/10/23 10:51 | 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 | | 02/07/23 13:15 | 02/10/23 04:05 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/07/23 13:15 | 02/10/23 04:05 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/07/23 13:15 | 02/10/23 04:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 89 | | 70 - 130 | | | 02/07/23 13:15 | 02/10/23 04:05 | 1 |
| o-Terphenyl | 100 | | 70 - 130 | | | 02/07/23 13:15 | 02/10/23 04:05 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2620 | | 25.0 | mg/Kg | | | 02/03/23 22:00 | 5 |

Client Sample ID: SS03

Lab Sample ID: 890-3974-3

Date Collected: 01/27/23 09:45

Matrix: Solid

Date Received: 01/27/23 14:06

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 | | 02/08/23 13:25 | 02/08/23 20:24 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 02/08/23 13:25 | 02/08/23 20:24 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 02/08/23 13:25 | 02/08/23 20:24 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 02/08/23 13:25 | 02/08/23 20:24 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 02/08/23 13:25 | 02/08/23 20:24 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 02/08/23 13:25 | 02/08/23 20:24 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 122 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 20:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 20:24 | 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 | | | 02/09/23 08:41 | 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 | | | 02/10/23 10:51 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

Client Sample ID: SS03

Lab Sample ID: 890-3974-3

Date Collected: 01/27/23 09:45

Matrix: Solid

Date Received: 01/27/23 14:06

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 | | 02/07/23 13:15 | 02/10/23 04:27 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/07/23 13:15 | 02/10/23 04:27 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/07/23 13:15 | 02/10/23 04:27 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 80 | | 70 - 130 | | | 02/07/23 13:15 | 02/10/23 04:27 | 1 |
| o-Terphenyl | 92 | | 70 - 130 | | | 02/07/23 13:15 | 02/10/23 04:27 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2100 | | 25.3 | mg/Kg | | | 02/03/23 22:04 | 5 |

Client Sample ID: SS04

Lab Sample ID: 890-3974-4

Date Collected: 01/27/23 09:50

Matrix: Solid

Date Received: 01/27/23 14:06

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 | | 02/08/23 13:25 | 02/08/23 20:50 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 02/08/23 13:25 | 02/08/23 20:50 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 02/08/23 13:25 | 02/08/23 20:50 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 02/08/23 13:25 | 02/08/23 20:50 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 02/08/23 13:25 | 02/08/23 20:50 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 02/08/23 13:25 | 02/08/23 20:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 126 | | 70 - 130 | | | 02/08/23 13:25 | 02/08/23 20:50 | 1 |
| 1,4-Difluorobenzene (Surr) | 87 | | 70 - 130 | | | 02/08/23 13:25 | 02/08/23 20:50 | 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 | | | 02/09/23 08:41 | 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 | | | 02/10/23 10:51 | 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 | | 02/07/23 13:15 | 02/10/23 04:49 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/07/23 13:15 | 02/10/23 04:49 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/07/23 13:15 | 02/10/23 04:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 86 | | 70 - 130 | | | 02/07/23 13:15 | 02/10/23 04:49 | 1 |
| o-Terphenyl | 99 | | 70 - 130 | | | 02/07/23 13:15 | 02/10/23 04:49 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

Client Sample ID: SS04

Lab Sample ID: 890-3974-4

Date Collected: 01/27/23 09:50

Matrix: Solid

Date Received: 01/27/23 14:06

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 3640 | | 25.2 | mg/Kg | | | 02/03/23 22:09 | 5 |

Client Sample ID: SS05

Lab Sample ID: 890-3974-5

Date Collected: 01/27/23 09:55

Matrix: Solid

Date Received: 01/27/23 14:06

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 | | 02/08/23 13:25 | 02/08/23 21:17 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 02/08/23 13:25 | 02/08/23 21:17 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 02/08/23 13:25 | 02/08/23 21:17 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 02/08/23 13:25 | 02/08/23 21:17 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 02/08/23 13:25 | 02/08/23 21:17 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 02/08/23 13:25 | 02/08/23 21:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 115 | | 70 - 130 | | | 02/08/23 13:25 | 02/08/23 21:17 | 1 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | | | 02/08/23 13:25 | 02/08/23 21:17 | 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 | | | 02/09/23 08:41 | 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 | | | 02/10/23 10:51 | 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 | | 02/07/23 13:15 | 02/10/23 05:11 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/07/23 13:15 | 02/10/23 05:11 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/07/23 13:15 | 02/10/23 05:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 81 | | 70 - 130 | | | 02/07/23 13:15 | 02/10/23 05:11 | 1 |
| o-Terphenyl | 94 | | 70 - 130 | | | 02/07/23 13:15 | 02/10/23 05:11 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 6410 | | 50.0 | mg/Kg | | | 02/03/23 22:14 | 10 |

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Surrogate Summary

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

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) |
| 890-3974-1 | SS01 | 108 | 93 |
| 890-3974-1 MS | SS01 | 112 | 106 |
| 890-3974-1 MSD | SS01 | 107 | 100 |
| 890-3974-2 | SS02 | 117 | 100 |
| 890-3974-3 | SS03 | 122 | 96 |
| 890-3974-4 | SS04 | 126 | 87 |
| 890-3974-5 | SS05 | 115 | 96 |
| LCS 880-45803/1-A | Lab Control Sample | 122 | 106 |
| LCSD 880-45803/2-A | Lab Control Sample Dup | 109 | 93 |
| MB 880-45803/5-A | Method Blank | 73 | 92 |
| 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) |
| 890-3967-A-1-D MS | Matrix Spike | 15 S1- | 10 S1- |
| 890-3967-A-1-E MSD | Matrix Spike Duplicate | 17 S1- | 11 S1- |
| 890-3974-1 | SS01 | 93 | 105 |
| 890-3974-2 | SS02 | 89 | 100 |
| 890-3974-3 | SS03 | 80 | 92 |
| 890-3974-4 | SS04 | 86 | 99 |
| 890-3974-5 | SS05 | 81 | 94 |
| LCS 880-45703/2-A | Lab Control Sample | 102 | 114 |
| LCSD 880-45703/3-A | Lab Control Sample Dup | 92 | 105 |
| MB 880-45703/1-A | Method Blank | 126 | 146 S1+ |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

QC Sample Results

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45803/5-A

Matrix: Solid

Analysis Batch: 45810

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45803

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:04 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:04 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:04 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:04 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:04 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:04 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 73 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 19:04 | 1 |
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 19:04 | 1 |

Lab Sample ID: LCS 880-45803/1-A

Matrix: Solid

Analysis Batch: 45810

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45803

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene | 0.100 | 0.1101 | | mg/Kg | | 110 | 70 - 130 |
| Toluene | 0.100 | 0.1179 | | mg/Kg | | 118 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1227 | | mg/Kg | | 123 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2408 | | mg/Kg | | 120 | 70 - 130 |
| o-Xylene | 0.100 | 0.1216 | | mg/Kg | | 122 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 122 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 |

Lab Sample ID: LCSD 880-45803/2-A

Matrix: Solid

Analysis Batch: 45810

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45803

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Benzene | 0.100 | 0.09776 | | mg/Kg | | 98 | 70 - 130 | 12 | 35 |
| Toluene | 0.100 | 0.1031 | | mg/Kg | | 103 | 70 - 130 | 13 | 35 |
| Ethylbenzene | 0.100 | 0.1073 | | mg/Kg | | 107 | 70 - 130 | 13 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2100 | | mg/Kg | | 105 | 70 - 130 | 14 | 35 |
| o-Xylene | 0.100 | 0.1043 | | mg/Kg | | 104 | 70 - 130 | 15 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 |

Lab Sample ID: 890-3974-1 MS

Matrix: Solid

Analysis Batch: 45810

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 45803

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Benzene | <0.00201 | U | 0.100 | 0.09603 | | mg/Kg | | 96 | 70 - 130 |
| Toluene | <0.00201 | U | 0.100 | 0.09650 | | mg/Kg | | 96 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

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

Lab Sample ID: 890-3974-1 MS

Matrix: Solid

Analysis Batch: 45810

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 45803

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene | <0.00201 | U | 0.100 | 0.09588 | | mg/Kg | | 95 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.201 | 0.1879 | | mg/Kg | | 94 | 70 - 130 |
| o-Xylene | <0.00201 | U | 0.100 | 0.09333 | | mg/Kg | | 93 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 |

Lab Sample ID: 890-3974-1 MSD

Matrix: Solid

Analysis Batch: 45810

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 45803

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | <0.00201 | U | 0.0990 | 0.09419 | | mg/Kg | | 95 | 70 - 130 | 2 | 35 |
| Toluene | <0.00201 | U | 0.0990 | 0.09220 | | mg/Kg | | 93 | 70 - 130 | 5 | 35 |
| Ethylbenzene | <0.00201 | U | 0.0990 | 0.09481 | | mg/Kg | | 96 | 70 - 130 | 1 | 35 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.198 | 0.1872 | | mg/Kg | | 95 | 70 - 130 | 0 | 35 |
| o-Xylene | <0.00201 | U | 0.0990 | 0.09527 | | mg/Kg | | 96 | 70 - 130 | 2 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 |

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

Lab Sample ID: MB 880-45703/1-A

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45703

| 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 | | 02/07/23 13:15 | 02/09/23 20:17 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/07/23 13:15 | 02/09/23 20:17 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/07/23 13:15 | 02/09/23 20:17 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 126 | | 70 - 130 | 02/07/23 13:15 | 02/09/23 20:17 | 1 |
| o-Terphenyl | 146 | S1+ | 70 - 130 | 02/07/23 13:15 | 02/09/23 20:17 | 1 |

Lab Sample ID: LCS 880-45703/2-A

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45703

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 810.1 | | mg/Kg | | 81 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 914.1 | | mg/Kg | | 91 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

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

Lab Sample ID: LCS 880-45703/2-A

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45703

| | LCS | LCS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 102 | | 70 - 130 |
| o-Terphenyl | 114 | | 70 - 130 |

Lab Sample ID: LCSD 880-45703/3-A

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45703

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|-----------|-----------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 825.3 | | mg/Kg | | 83 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 880.0 | | mg/Kg | | 88 | 70 - 130 | 4 | 20 |
| Surrogate | | LCSD | LCSD | | | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 92 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 105 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 890-3967-A-1-D MS

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45703

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 998 | 900.3 | | mg/Kg | | 90 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 998 | 962.8 | | mg/Kg | | 95 | 70 - 130 | | |
| Surrogate | | MS | MS | | | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 15 | S1- | 70 - 130 | | | | | | | | |
| o-Terphenyl | 10 | S1- | 70 - 130 | | | | | | | | |

Lab Sample ID: 890-3967-A-1-E MSD

Matrix: Solid

Analysis Batch: 45833

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45703

| 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 | 1066 | | mg/Kg | | 107 | 70 - 130 | 17 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 997 | 1085 | | mg/Kg | | 107 | 70 - 130 | 12 | 20 |
| Surrogate | | MSD | MSD | | | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 17 | S1- | 70 - 130 | | | | | | | | |
| o-Terphenyl | 11 | S1- | 70 - 130 | | | | | | | | |

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QC Sample Results

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45095/1-A
Matrix: Solid
Analysis Batch: 45420

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 | | | 02/03/23 21:32 | 1 |

Lab Sample ID: LCS 880-45095/2-A
Matrix: Solid
Analysis Batch: 45420

Client Sample ID: Lab Control Sample
Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250 | 258.9 | | mg/Kg | | 104 | 90 - 110 |

Lab Sample ID: LCSD 880-45095/3-A
Matrix: Solid
Analysis Batch: 45420

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 | 248.1 | | mg/Kg | | 99 | 90 - 110 | 4 | 20 |

Lab Sample ID: 890-3974-1 MS
Matrix: Solid
Analysis Batch: 45420

Client Sample ID: SS01
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | 2350 | F1 | 1260 | 3823 | F1 | mg/Kg | | 117 | 90 - 110 |

Lab Sample ID: 890-3974-1 MSD
Matrix: Solid
Analysis Batch: 45420

Client Sample ID: SS01
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 2350 | F1 | 1260 | 3702 | | mg/Kg | | 108 | 90 - 110 | 3 | 20 |

QC Association Summary

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

GC VOA

Prep Batch: 45803

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3974-1 | SS01 | Total/NA | Solid | 5035 | |
| 890-3974-2 | SS02 | Total/NA | Solid | 5035 | |
| 890-3974-3 | SS03 | Total/NA | Solid | 5035 | |
| 890-3974-4 | SS04 | Total/NA | Solid | 5035 | |
| 890-3974-5 | SS05 | Total/NA | Solid | 5035 | |
| MB 880-45803/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-45803/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-45803/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3974-1 MS | SS01 | Total/NA | Solid | 5035 | |
| 890-3974-1 MSD | SS01 | Total/NA | Solid | 5035 | |

Analysis Batch: 45810

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3974-1 | SS01 | Total/NA | Solid | 8021B | 45803 |
| 890-3974-2 | SS02 | Total/NA | Solid | 8021B | 45803 |
| 890-3974-3 | SS03 | Total/NA | Solid | 8021B | 45803 |
| 890-3974-4 | SS04 | Total/NA | Solid | 8021B | 45803 |
| 890-3974-5 | SS05 | Total/NA | Solid | 8021B | 45803 |
| MB 880-45803/5-A | Method Blank | Total/NA | Solid | 8021B | 45803 |
| LCS 880-45803/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 45803 |
| LCSD 880-45803/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 45803 |
| 890-3974-1 MS | SS01 | Total/NA | Solid | 8021B | 45803 |
| 890-3974-1 MSD | SS01 | Total/NA | Solid | 8021B | 45803 |

Analysis Batch: 45844

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3974-1 | SS01 | Total/NA | Solid | Total BTEX | |
| 890-3974-2 | SS02 | Total/NA | Solid | Total BTEX | |
| 890-3974-3 | SS03 | Total/NA | Solid | Total BTEX | |
| 890-3974-4 | SS04 | Total/NA | Solid | Total BTEX | |
| 890-3974-5 | SS05 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 45703

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3974-1 | SS01 | Total/NA | Solid | 8015NM Prep | |
| 890-3974-2 | SS02 | Total/NA | Solid | 8015NM Prep | |
| 890-3974-3 | SS03 | Total/NA | Solid | 8015NM Prep | |
| 890-3974-4 | SS04 | Total/NA | Solid | 8015NM Prep | |
| 890-3974-5 | SS05 | Total/NA | Solid | 8015NM Prep | |
| MB 880-45703/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-45703/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-45703/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3967-A-1-D MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3967-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 45833

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-3974-1 | SS01 | Total/NA | Solid | 8015B NM | 45703 |
| 890-3974-2 | SS02 | Total/NA | Solid | 8015B NM | 45703 |

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QC Association Summary

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

GC Semi VOA (Continued)

Analysis Batch: 45833 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3974-3 | SS03 | Total/NA | Solid | 8015B NM | 45703 |
| 890-3974-4 | SS04 | Total/NA | Solid | 8015B NM | 45703 |
| 890-3974-5 | SS05 | Total/NA | Solid | 8015B NM | 45703 |
| MB 880-45703/1-A | Method Blank | Total/NA | Solid | 8015B NM | 45703 |
| LCS 880-45703/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 45703 |
| LCSD 880-45703/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 45703 |
| 890-3967-A-1-D MS | Matrix Spike | Total/NA | Solid | 8015B NM | 45703 |
| 890-3967-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 45703 |

Analysis Batch: 45981

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3974-1 | SS01 | Total/NA | Solid | 8015 NM | |
| 890-3974-2 | SS02 | Total/NA | Solid | 8015 NM | |
| 890-3974-3 | SS03 | Total/NA | Solid | 8015 NM | |
| 890-3974-4 | SS04 | Total/NA | Solid | 8015 NM | |
| 890-3974-5 | SS05 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 45095

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3974-1 | SS01 | Soluble | Solid | DI Leach | |
| 890-3974-2 | SS02 | Soluble | Solid | DI Leach | |
| 890-3974-3 | SS03 | Soluble | Solid | DI Leach | |
| 890-3974-4 | SS04 | Soluble | Solid | DI Leach | |
| 890-3974-5 | SS05 | Soluble | Solid | DI Leach | |
| MB 880-45095/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-45095/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-45095/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3974-1 MS | SS01 | Soluble | Solid | DI Leach | |
| 890-3974-1 MSD | SS01 | Soluble | Solid | DI Leach | |

Analysis Batch: 45420

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3974-1 | SS01 | Soluble | Solid | 300.0 | 45095 |
| 890-3974-2 | SS02 | Soluble | Solid | 300.0 | 45095 |
| 890-3974-3 | SS03 | Soluble | Solid | 300.0 | 45095 |
| 890-3974-4 | SS04 | Soluble | Solid | 300.0 | 45095 |
| 890-3974-5 | SS05 | Soluble | Solid | 300.0 | 45095 |
| MB 880-45095/1-A | Method Blank | Soluble | Solid | 300.0 | 45095 |
| LCS 880-45095/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 45095 |
| LCSD 880-45095/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 45095 |
| 890-3974-1 MS | SS01 | Soluble | Solid | 300.0 | 45095 |
| 890-3974-1 MSD | SS01 | Soluble | Solid | 300.0 | 45095 |

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Lab Chronicle

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

Client Sample ID: SS01

Date Collected: 01/27/23 09:35

Date Received: 01/27/23 14:06

Lab Sample ID: 890-3974-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 45803 | 02/08/23 13:25 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45810 | 02/08/23 19:31 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45844 | 02/09/23 08:41 | MNR | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45981 | 02/10/23 10:51 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45703 | 02/07/23 13:15 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45833 | 02/10/23 03:42 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 45095 | 01/30/23 16:15 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 45420 | 02/03/23 21:46 | CH | EET MID |

Client Sample ID: SS02

Date Collected: 01/27/23 09:40

Date Received: 01/27/23 14:06

Lab Sample ID: 890-3974-2

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 | | | 4.96 g | 5 mL | 45803 | 02/08/23 13:25 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45810 | 02/08/23 19:57 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45844 | 02/09/23 08:41 | MNR | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45981 | 02/10/23 10:51 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 45703 | 02/07/23 13:15 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45833 | 02/10/23 04:05 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 45095 | 01/30/23 16:15 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 45420 | 02/03/23 22:00 | CH | EET MID |

Client Sample ID: SS03

Date Collected: 01/27/23 09:45

Date Received: 01/27/23 14:06

Lab Sample ID: 890-3974-3

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 | | | 5.02 g | 5 mL | 45803 | 02/08/23 13:25 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45810 | 02/08/23 20:24 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45844 | 02/09/23 08:41 | MNR | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45981 | 02/10/23 10:51 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45703 | 02/07/23 13:15 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45833 | 02/10/23 04:27 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 45095 | 01/30/23 16:15 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 45420 | 02/03/23 22:04 | CH | EET MID |

Client Sample ID: SS04

Date Collected: 01/27/23 09:50

Date Received: 01/27/23 14:06

Lab Sample ID: 890-3974-4

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 | | | 5.05 g | 5 mL | 45803 | 02/08/23 13:25 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45810 | 02/08/23 20:50 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45844 | 02/09/23 08:41 | MNR | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

Client Sample ID: SS04
Date Collected: 01/27/23 09:50
Date Received: 01/27/23 14:06

Lab Sample ID: 890-3974-4
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 45981 | 02/10/23 10:51 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45703 | 02/07/23 13:15 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45833 | 02/10/23 04:49 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 45095 | 01/30/23 16:15 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 45420 | 02/03/23 22:09 | CH | EET MID |

Client Sample ID: SS05
Date Collected: 01/27/23 09:55
Date Received: 01/27/23 14:06

Lab Sample ID: 890-3974-5
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 | 45803 | 02/08/23 13:25 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45810 | 02/08/23 21:17 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45844 | 02/09/23 08:41 | MNR | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45981 | 02/10/23 10:51 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 45703 | 02/07/23 13:15 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45833 | 02/10/23 05:11 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 45095 | 01/30/23 16:15 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 10 | | | 45420 | 02/03/23 22:14 | 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: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

Laboratory: Eurofins Midland

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

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

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

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

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Method Summary

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

| 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: Sprayberry Booster Pump

Job ID: 890-3974-1
SDG: 03D2024145

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3974-1 | SS01 | Solid | 01/27/23 09:35 | 01/27/23 14:06 | 0.5' |
| 890-3974-2 | SS02 | Solid | 01/27/23 09:40 | 01/27/23 14:06 | 0.5' |
| 890-3974-3 | SS03 | Solid | 01/27/23 09:45 | 01/27/23 14:06 | 0.5' |
| 890-3974-4 | SS04 | Solid | 01/27/23 09:50 | 01/27/23 14:06 | 0.5' |
| 890-3974-5 | SS05 | Solid | 01/27/23 09:55 | 01/27/23 14:06 | 0.5' |

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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 1

| | | | |
|------------------|-------------------------------|-------------------------|-------------------------------|
| Project Manager: | Hadlie Green | Bill to: (if different) | Kalei 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: | 817.683.2503 | Email: | kjennings@ensolum.com |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|------------------------|---|------------|--|-----------|------------|-----------|-------------|--|--|--|--|--|--|--|--|--|--|--|---|---|-----------------|--|--|-----------------|
| Project Name: | Sprayberry Booster Pump | Turn Around | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Prat. Code | ANALYSIS REQUEST | | | | | | | | | | | | | | | | Preservative Codes | | | | | |
| Project Number: | 03D2024145 | Due Date: | | |  890-3974 Chain of Custody | | | | | | | | | | | | | | | | None: NO | DI Water: H ₂ O | | | | |
| Project Location: | Lea County, NM | | | | | | | | | | | | | | | | | | | | Cool: Cool | MeOH: Me | | | | |
| Sampler's Name: | Conner Shore | | | | | | | | | | | | | | | | | | | | HCL: HC | HNO ₃ : HN | | | | |
| PO #: | | | | | | | | | | | | | | | | | | | | | H ₂ SO ₄ : H ₂ | NaOH: Na | | | | |
| SAMPLE RECEIPT | | Temp Blank: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Wet Ice: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | | | | | | | | | | | | | | | H ₃ PO ₄ : HP | | | | |
| Samples Received Intact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID: | T-9207 | | | | | | | | | | | | | | | | | | | NaHSO ₄ : NABIS | | | | |
| Cooler Custody Seals: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Correction Factor: | -0.22 | | | | | | | | | | | | | | | | | | | Na ₂ S ₂ O ₅ : NASO ₃ | | | | |
| Sample Custody Seals: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Temperature Reading: | 1.4 | | | | | | | | | | | | | | | | | | | Zn Acetate+NaOH: Zn | | | | |
| Total Containers: | | Corrected Temperature: | 1.8 | | | | | | | | | | | | | | | | | | | NaOH+Ascorbic Acid: SAPC | | | | |
| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | | | | | | | | | | | | | | | | | Sample Comments | | | |
| SS01 | S | 1.27.23 | 935 | 0.5' | G | 1 | TPH (8015) | Chlorides | BTEX (8021) | | | | | | | | | | | | | | | | | Incident Number |
| SS02 | S | 1.27.23 | 940 | 0.5' | G | 1 | | | | | | | | | | | | | | | | | | | | |
| SS03 | S | 1.27.23 | 945 | 0.5' | G | 1 | | | | | | | | | | | | | | | | | | | | |
| SS04 | S | 1.27.23 | 950 | 0.5' | G | 1 | | | | | | | | | | | | | | | | | | | | |
| SS05 | S | 1.27.23 | 955 | 0.5' | G | 1 | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | |
|--|------------------------------|-------------------------|------------------------------|--|--------------------------------|----------|---|
| 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 | | TCLP / SPLP 6010: 8RCRA | | Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | Hg: 1631 / 245.1 / 7470 / 7471 | | |
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time | | |
| 1 <i>Handwritten Signature</i> | <i>Handwritten Signature</i> | 1-27-23 1406 | | | | | |
| 3 | | | | | | | |
| 5 | | | | | | | |

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3974-1

SDG Number: 03D2024145

Login Number: 3974

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3974-1

SDG Number: 03D2024145

Login Number: 3974

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 02/03/23 01:00 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 2/9/2023 9:18:24 AM

JOB DESCRIPTION

Sprayberry Booster Pump
SDG NUMBER 03D2024145


JOB NUMBER

890-3975-1

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
2/9/2023 9:18:24 AM

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

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Laboratory Job ID: 890-3975-1
SDG: 03D2024145

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Definitions/Glossary

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

Qualifiers

GC VOA

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

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| 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: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

Job ID: 890-3975-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3975-1

Receipt

The samples were received on 1/27/2023 2:06 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: SS06 (890-3975-1), SS07 (890-3975-2), SS08 (890-3975-3) and SS09 (890-3975-4).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-45704 and analytical batch 880-45735 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-3975-A-1-D MS) and (890-3975-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-45704 and analytical batch 880-45735 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

Client Sample ID: SS06

Lab Sample ID: 890-3975-1

Date Collected: 01/27/23 10:00

Matrix: Solid

Date Received: 01/27/23 14:06

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 | | 02/08/23 13:25 | 02/08/23 21:43 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/23 13:25 | 02/08/23 21:43 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/23 13:25 | 02/08/23 21:43 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 02/08/23 13:25 | 02/08/23 21:43 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/23 13:25 | 02/08/23 21:43 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 02/08/23 13:25 | 02/08/23 21:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 80 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 21:43 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 21:43 | 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 | | | 02/09/23 08:41 | 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 | | | 02/09/23 09:48 | 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 F1 | 49.8 | mg/Kg | | 02/07/23 13:19 | 02/08/23 21:44 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U F1 | 49.8 | mg/Kg | | 02/07/23 13:19 | 02/08/23 21:44 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 02/07/23 13:19 | 02/08/23 21:44 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 100 | | 70 - 130 | 02/07/23 13:19 | 02/08/23 21:44 | 1 |
| o-Terphenyl | 110 | | 70 - 130 | 02/07/23 13:19 | 02/08/23 21:44 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 79.4 | | 5.00 | mg/Kg | | | 02/03/23 22:28 | 1 |

Client Sample ID: SS07

Lab Sample ID: 890-3975-2

Date Collected: 01/27/23 10:05

Matrix: Solid

Date Received: 01/27/23 14:06

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 | | 02/08/23 13:25 | 02/08/23 22:10 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 02/08/23 13:25 | 02/08/23 22:10 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 02/08/23 13:25 | 02/08/23 22:10 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 02/08/23 13:25 | 02/08/23 22:10 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 02/08/23 13:25 | 02/08/23 22:10 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 02/08/23 13:25 | 02/08/23 22:10 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 122 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 22:10 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

Client Sample ID: SS07

Lab Sample ID: 890-3975-2

Date Collected: 01/27/23 10:05

Matrix: Solid

Date Received: 01/27/23 14:06

Sample Depth: 0.5'

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 22:10 | 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 | | | 02/09/23 08:41 | 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 | | | 02/09/23 09:48 | 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 | | 02/07/23 13:19 | 02/08/23 22:50 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 02/07/23 13:19 | 02/08/23 22:50 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 02/07/23 13:19 | 02/08/23 22:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 95 | | 70 - 130 | | | 02/07/23 13:19 | 02/08/23 22:50 | 1 |
| o-Terphenyl | 105 | | 70 - 130 | | | 02/07/23 13:19 | 02/08/23 22:50 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 16.7 | | 5.03 | mg/Kg | | | 02/03/23 22:32 | 1 |

Client Sample ID: SS08

Lab Sample ID: 890-3975-3

Date Collected: 01/27/23 10:10

Matrix: Solid

Date Received: 01/27/23 14:06

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 | | 02/08/23 13:25 | 02/08/23 22:36 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/23 13:25 | 02/08/23 22:36 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/23 13:25 | 02/08/23 22:36 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 02/08/23 13:25 | 02/08/23 22:36 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/23 13:25 | 02/08/23 22:36 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 02/08/23 13:25 | 02/08/23 22:36 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 120 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 22:36 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 22:36 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 02/09/23 08:41 | 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 | | | 02/09/23 09:48 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

Client Sample ID: SS08

Lab Sample ID: 890-3975-3

Date Collected: 01/27/23 10:10

Matrix: Solid

Date Received: 01/27/23 14:06

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 | | 02/07/23 13:19 | 02/08/23 23:13 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/07/23 13:19 | 02/08/23 23:13 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/07/23 13:19 | 02/08/23 23:13 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 116 | | 70 - 130 | | | 02/07/23 13:19 | 02/08/23 23:13 | 1 |
| o-Terphenyl | 122 | | 70 - 130 | | | 02/07/23 13:19 | 02/08/23 23:13 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 11.1 | | 5.02 | mg/Kg | | | 02/03/23 22:37 | 1 |

Client Sample ID: SS09

Lab Sample ID: 890-3975-4

Date Collected: 01/27/23 10:15

Matrix: Solid

Date Received: 01/27/23 14:06

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 | | 02/08/23 13:25 | 02/08/23 23:03 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 02/08/23 13:25 | 02/08/23 23:03 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 02/08/23 13:25 | 02/08/23 23:03 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 02/08/23 13:25 | 02/08/23 23:03 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 02/08/23 13:25 | 02/08/23 23:03 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 02/08/23 13:25 | 02/08/23 23:03 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 120 | | 70 - 130 | | | 02/08/23 13:25 | 02/08/23 23:03 | 1 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | | | 02/08/23 13:25 | 02/08/23 23:03 | 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 | | | 02/09/23 10:09 | 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 | | | 02/09/23 09:48 | 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 | | 02/07/23 13:19 | 02/08/23 23:35 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/07/23 13:19 | 02/08/23 23:35 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/07/23 13:19 | 02/08/23 23:35 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 89 | | 70 - 130 | | | 02/07/23 13:19 | 02/08/23 23:35 | 1 |
| o-Terphenyl | 96 | | 70 - 130 | | | 02/07/23 13:19 | 02/08/23 23:35 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

Client Sample ID: SS09
Date Collected: 01/27/23 10:15
Date Received: 01/27/23 14:06
Sample Depth: 0.5'

Lab Sample ID: 890-3975-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <4.98 | U | 4.98 | mg/Kg | | | 02/03/23 22:41 | 1 |

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

Surrogate Summary

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

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) |
| 890-3974-A-1-G MS | Matrix Spike | 112 | 106 |
| 890-3974-A-1-H MSD | Matrix Spike Duplicate | 107 | 100 |
| 890-3975-1 | SS06 | 80 | 95 |
| 890-3975-2 | SS07 | 122 | 100 |
| 890-3975-3 | SS08 | 120 | 95 |
| 890-3975-4 | SS09 | 120 | 96 |
| LCS 880-45803/1-A | Lab Control Sample | 122 | 106 |
| LCSD 880-45803/2-A | Lab Control Sample Dup | 109 | 93 |
| MB 880-45803/5-A | Method Blank | 73 | 92 |
| 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) |
| 890-3975-1 | SS06 | 100 | 110 |
| 890-3975-1 MS | SS06 | 191 S1+ | 194 S1+ |
| 890-3975-1 MSD | SS06 | 207 S1+ | 204 S1+ |
| 890-3975-2 | SS07 | 95 | 105 |
| 890-3975-3 | SS08 | 116 | 122 |
| 890-3975-4 | SS09 | 89 | 96 |
| LCS 880-45704/2-A | Lab Control Sample | 104 | 114 |
| LCSD 880-45704/3-A | Lab Control Sample Dup | 100 | 110 |
| MB 880-45704/1-A | Method Blank | 116 | 132 S1+ |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

QC Sample Results

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45803/5-A

Matrix: Solid

Analysis Batch: 45810

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45803

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:04 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:04 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:04 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:04 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:04 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/08/23 13:25 | 02/08/23 19:04 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 73 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 19:04 | 1 |
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | 02/08/23 13:25 | 02/08/23 19:04 | 1 |

Lab Sample ID: LCS 880-45803/1-A

Matrix: Solid

Analysis Batch: 45810

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45803

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene | 0.100 | 0.1101 | | mg/Kg | | 110 | 70 - 130 |
| Toluene | 0.100 | 0.1179 | | mg/Kg | | 118 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1227 | | mg/Kg | | 123 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2408 | | mg/Kg | | 120 | 70 - 130 |
| o-Xylene | 0.100 | 0.1216 | | mg/Kg | | 122 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 122 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 |

Lab Sample ID: LCSD 880-45803/2-A

Matrix: Solid

Analysis Batch: 45810

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45803

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Benzene | 0.100 | 0.09776 | | mg/Kg | | 98 | 70 - 130 | 12 | 35 |
| Toluene | 0.100 | 0.1031 | | mg/Kg | | 103 | 70 - 130 | 13 | 35 |
| Ethylbenzene | 0.100 | 0.1073 | | mg/Kg | | 107 | 70 - 130 | 13 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2100 | | mg/Kg | | 105 | 70 - 130 | 14 | 35 |
| o-Xylene | 0.100 | 0.1043 | | mg/Kg | | 104 | 70 - 130 | 15 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 |

Lab Sample ID: 890-3974-A-1-G MS

Matrix: Solid

Analysis Batch: 45810

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45803

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Benzene | <0.00201 | U | 0.100 | 0.09603 | | mg/Kg | | 96 | 70 - 130 |
| Toluene | <0.00201 | U | 0.100 | 0.09650 | | mg/Kg | | 96 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

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

Lab Sample ID: 890-3974-A-1-G MS

Matrix: Solid

Analysis Batch: 45810

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45803

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene | <0.00201 | U | 0.100 | 0.09588 | | mg/Kg | | 95 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.201 | 0.1879 | | mg/Kg | | 94 | 70 - 130 |
| o-Xylene | <0.00201 | U | 0.100 | 0.09333 | | mg/Kg | | 93 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 |

Lab Sample ID: 890-3974-A-1-H MSD

Matrix: Solid

Analysis Batch: 45810

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45803

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | <0.00201 | U | 0.0990 | 0.09419 | | mg/Kg | | 95 | 70 - 130 | 2 | 35 |
| Toluene | <0.00201 | U | 0.0990 | 0.09220 | | mg/Kg | | 93 | 70 - 130 | 5 | 35 |
| Ethylbenzene | <0.00201 | U | 0.0990 | 0.09481 | | mg/Kg | | 96 | 70 - 130 | 1 | 35 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.198 | 0.1872 | | mg/Kg | | 95 | 70 - 130 | 0 | 35 |
| o-Xylene | <0.00201 | U | 0.0990 | 0.09527 | | mg/Kg | | 96 | 70 - 130 | 2 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 |

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

Lab Sample ID: MB 880-45704/1-A

Matrix: Solid

Analysis Batch: 45735

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45704

| 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 | | 02/07/23 13:19 | 02/08/23 20:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/07/23 13:19 | 02/08/23 20:37 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/07/23 13:19 | 02/08/23 20:37 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 116 | | 70 - 130 | 02/07/23 13:19 | 02/08/23 20:37 | 1 |
| o-Terphenyl | 132 | S1+ | 70 - 130 | 02/07/23 13:19 | 02/08/23 20:37 | 1 |

Lab Sample ID: LCS 880-45704/2-A

Matrix: Solid

Analysis Batch: 45735

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45704

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 860.6 | | mg/Kg | | 86 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 909.7 | | mg/Kg | | 91 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

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

Lab Sample ID: LCS 880-45704/2-A

Matrix: Solid

Analysis Batch: 45735

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45704

| | LCS | LCS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 104 | | 70 - 130 |
| o-Terphenyl | 114 | | 70 - 130 |

Lab Sample ID: LCSD 880-45704/3-A

Matrix: Solid

Analysis Batch: 45735

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45704

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 917.2 | | mg/Kg | | 92 | 70 - 130 | 6 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 932.0 | | mg/Kg | | 93 | 70 - 130 | 2 | 20 |

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 100 | | 70 - 130 |
| o-Terphenyl | 110 | | 70 - 130 |

Lab Sample ID: 890-3975-1 MS

Matrix: Solid

Analysis Batch: 45735

Client Sample ID: SS06

Prep Type: Total/NA

Prep Batch: 45704

| 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 F1 | 995 | 1634 | F1 | mg/Kg | | 164 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U F1 | 995 | 1867 | F1 | mg/Kg | | 188 | 70 - 130 |

| | MS | MS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 191 | S1+ | 70 - 130 |
| o-Terphenyl | 194 | S1+ | 70 - 130 |

Lab Sample ID: 890-3975-1 MSD

Matrix: Solid

Analysis Batch: 45735

Client Sample ID: SS06

Prep Type: Total/NA

Prep Batch: 45704

| 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 F1 | 999 | 1813 | F1 | mg/Kg | | 181 | 70 - 130 | 10 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U F1 | 999 | 1990 | F1 | mg/Kg | | 199 | 70 - 130 | 6 | 20 |

| | MSD | MSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 207 | S1+ | 70 - 130 |
| o-Terphenyl | 204 | S1+ | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

Method: 300.0 - Anions, Ion Chromatography

| | | | | | | | | | | | |
|---|---------------|------------------|-------------|-------------|----------------|----------|----------------|---------|-------------|--|-----------|
| Lab Sample ID: MB 880-45095/1-A Matrix: Solid Analysis Batch: 45420 | | | | | | | | | | 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 | | | 02/03/23 21:32 | 1 | | | |
| Lab Sample ID: LCS 880-45095/2-A Matrix: Solid Analysis Batch: 45420 | | | | | | | | | | Client Sample ID: Lab Control Sample Prep Type: Soluble | |
| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
| Chloride | | | 250 | 258.9 | | mg/Kg | | 104 | 90 - 110 | | |
| Lab Sample ID: LCSD 880-45095/3-A Matrix: Solid Analysis Batch: 45420 | | | | | | | | | | 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 | 248.1 | | mg/Kg | | 99 | 90 - 110 | 4 | 20 |
| Lab Sample ID: 890-3976-A-2-E MS Matrix: Solid Analysis Batch: 45420 | | | | | | | | | | 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 | 49.9 | | 248 | 302.6 | | mg/Kg | | 102 | 90 - 110 | | |

QC Association Summary

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

GC VOA

Prep Batch: 45803

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3975-1 | SS06 | Total/NA | Solid | 5035 | |
| 890-3975-2 | SS07 | Total/NA | Solid | 5035 | |
| 890-3975-3 | SS08 | Total/NA | Solid | 5035 | |
| 890-3975-4 | SS09 | Total/NA | Solid | 5035 | |
| MB 880-45803/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-45803/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-45803/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-3974-A-1-G MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-3974-A-1-H MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 45810

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3975-1 | SS06 | Total/NA | Solid | 8021B | 45803 |
| 890-3975-2 | SS07 | Total/NA | Solid | 8021B | 45803 |
| 890-3975-3 | SS08 | Total/NA | Solid | 8021B | 45803 |
| 890-3975-4 | SS09 | Total/NA | Solid | 8021B | 45803 |
| MB 880-45803/5-A | Method Blank | Total/NA | Solid | 8021B | 45803 |
| LCS 880-45803/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 45803 |
| LCSD 880-45803/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 45803 |
| 890-3974-A-1-G MS | Matrix Spike | Total/NA | Solid | 8021B | 45803 |
| 890-3974-A-1-H MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 45803 |

Analysis Batch: 45845

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3975-1 | SS06 | Total/NA | Solid | Total BTEX | |
| 890-3975-2 | SS07 | Total/NA | Solid | Total BTEX | |
| 890-3975-3 | SS08 | Total/NA | Solid | Total BTEX | |
| 890-3975-4 | SS09 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 45704

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3975-1 | SS06 | Total/NA | Solid | 8015NM Prep | |
| 890-3975-2 | SS07 | Total/NA | Solid | 8015NM Prep | |
| 890-3975-3 | SS08 | Total/NA | Solid | 8015NM Prep | |
| 890-3975-4 | SS09 | Total/NA | Solid | 8015NM Prep | |
| MB 880-45704/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-45704/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-45704/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3975-1 MS | SS06 | Total/NA | Solid | 8015NM Prep | |
| 890-3975-1 MSD | SS06 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 45735

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 890-3975-1 | SS06 | Total/NA | Solid | 8015B NM | 45704 |
| 890-3975-2 | SS07 | Total/NA | Solid | 8015B NM | 45704 |
| 890-3975-3 | SS08 | Total/NA | Solid | 8015B NM | 45704 |
| 890-3975-4 | SS09 | Total/NA | Solid | 8015B NM | 45704 |
| MB 880-45704/1-A | Method Blank | Total/NA | Solid | 8015B NM | 45704 |
| LCS 880-45704/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 45704 |

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QC Association Summary

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

GC Semi VOA (Continued)

Analysis Batch: 45735 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| LCSD 880-45704/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 45704 |
| 890-3975-1 MS | SS06 | Total/NA | Solid | 8015B NM | 45704 |
| 890-3975-1 MSD | SS06 | Total/NA | Solid | 8015B NM | 45704 |

Analysis Batch: 45872

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3975-1 | SS06 | Total/NA | Solid | 8015 NM | |
| 890-3975-2 | SS07 | Total/NA | Solid | 8015 NM | |
| 890-3975-3 | SS08 | Total/NA | Solid | 8015 NM | |
| 890-3975-4 | SS09 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 45095

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3975-1 | SS06 | Soluble | Solid | DI Leach | |
| 890-3975-2 | SS07 | Soluble | Solid | DI Leach | |
| 890-3975-3 | SS08 | Soluble | Solid | DI Leach | |
| 890-3975-4 | SS09 | Soluble | Solid | DI Leach | |
| MB 880-45095/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-45095/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-45095/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3976-A-2-E MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-3976-A-2-E MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 45420

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3975-1 | SS06 | Soluble | Solid | 300.0 | 45095 |
| 890-3975-2 | SS07 | Soluble | Solid | 300.0 | 45095 |
| 890-3975-3 | SS08 | Soluble | Solid | 300.0 | 45095 |
| 890-3975-4 | SS09 | Soluble | Solid | 300.0 | 45095 |
| MB 880-45095/1-A | Method Blank | Soluble | Solid | 300.0 | 45095 |
| LCS 880-45095/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 45095 |
| LCSD 880-45095/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 45095 |
| 890-3976-A-2-E MS | Matrix Spike | Soluble | Solid | 300.0 | 45095 |
| 890-3976-A-2-E MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 45095 |

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Lab Chronicle

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

Client Sample ID: SS06
Date Collected: 01/27/23 10:00
Date Received: 01/27/23 14:06

Lab Sample ID: 890-3975-1
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 | 45803 | 02/08/23 13:25 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45810 | 02/08/23 21:43 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45845 | 02/09/23 08:41 | MNR | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45872 | 02/09/23 09:48 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 45704 | 02/07/23 13:19 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45735 | 02/08/23 21:44 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 45095 | 01/30/23 16:15 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 45420 | 02/03/23 22:28 | CH | EET MID |

Client Sample ID: SS07
Date Collected: 01/27/23 10:05
Date Received: 01/27/23 14:06

Lab Sample ID: 890-3975-2
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 | | | 4.97 g | 5 mL | 45803 | 02/08/23 13:25 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45810 | 02/08/23 22:10 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45845 | 02/09/23 08:41 | MNR | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45872 | 02/09/23 09:48 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.05 g | 10 mL | 45704 | 02/07/23 13:19 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45735 | 02/08/23 22:50 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 45095 | 01/30/23 16:15 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 45420 | 02/03/23 22:32 | CH | EET MID |

Client Sample ID: SS08
Date Collected: 01/27/23 10:10
Date Received: 01/27/23 14:06

Lab Sample ID: 890-3975-3
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 | | | 4.99 g | 5 mL | 45803 | 02/08/23 13:25 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45810 | 02/08/23 22:36 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45845 | 02/09/23 08:41 | MNR | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 45872 | 02/09/23 09:48 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 45704 | 02/07/23 13:19 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45735 | 02/08/23 23:13 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 45095 | 01/30/23 16:15 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 45420 | 02/03/23 22:37 | CH | EET MID |

Client Sample ID: SS09
Date Collected: 01/27/23 10:15
Date Received: 01/27/23 14:06

Lab Sample ID: 890-3975-4
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 | | | 5.02 g | 5 mL | 45803 | 02/08/23 13:25 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 45810 | 02/08/23 23:03 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 45845 | 02/09/23 10:09 | MNR | EET MID |

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Lab Chronicle

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

Client Sample ID: SS09

Lab Sample ID: 890-3975-4

Date Collected: 01/27/23 10:15

Matrix: Solid

Date Received: 01/27/23 14:06

| 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 | | | 45872 | 02/09/23 09:48 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 45704 | 02/07/23 13:19 | AJ | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 45735 | 02/08/23 23:35 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 45095 | 01/30/23 16:15 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 45420 | 02/03/23 22:41 | 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: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

Laboratory: Eurofins Midland

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

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

| 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: Sprayberry Booster Pump

Job ID: 890-3975-1
SDG: 03D2024145

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3975-1 | SS06 | Solid | 01/27/23 10:00 | 01/27/23 14:06 | 0.5' |
| 890-3975-2 | SS07 | Solid | 01/27/23 10:05 | 01/27/23 14:06 | 0.5' |
| 890-3975-3 | SS08 | Solid | 01/27/23 10:10 | 01/27/23 14:06 | 0.5' |
| 890-3975-4 | SS09 | Solid | 01/27/23 10:15 | 01/27/23 14:06 | 0.5' |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 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: _____

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

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

| | | | | | |
|--------------------------|---|---|---|------------|---|
| Project Name: | Sprayberry Booster Pump | Turn Around | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code | |
| Project Number: | 03D2024145 | Due Date: | | | |
| Project Location: | Lea County, NM | TAT starts the day received by the lab, if received by 4:30pm | | | |
| Sampler's Name: | Conner Shore | | | | |
| PO #: | | | | | |
| SAMPLE RECEIPT | | Temp Blank: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Well Ice: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Samples Received Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Thermometer ID: | | | |
| Cooler Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Correction Factor: | | | |
| Sample Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Temperature Reading: | | | |
| Total Containers: | | Corrected Temperature: | | | |



890-3975 Chain of Custody

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | ANALYSIS REQUEST | | | | | | | | | | | | | | | |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------------|-----------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | TPH (8015) | Chlorides | BTEX (8021) | | | | | | | | | | | | | |
| SS06 | S | 1.27.23 | 1000 | 0.5' | G | 1 | X | X | X | | | | | | | | | | | | | |
| SS07 | S | 1.27.23 | 1005 | 0.5' | G | 1 | X | X | X | | | | | | | | | | | | | |
| SS08 | S | 1.27.23 | 1010 | 0.5' | G | 1 | X | X | X | | | | | | | | | | | | | |
| SS09 | S | 1.27.23 | 1015 | 0.5' | G | 1 | X | X | X | | | | | | | | | | | | | |
| 1.27.23 | | | | | | | | | | | | | | | | | | | | | | |

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 SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

| | | | | | |
|------------------------------|--------------------------|-----------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3975-1

SDG Number: 03D2024145

Login Number: 3975

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3975-1

SDG Number: 03D2024145

Login Number: 3975

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 02/03/23 01:00 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: Kalei Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/22/2023 1:23:16 PM

JOB DESCRIPTION

Cabo Wabo Sprayberry Booster
SDG NUMBER 03D2024145

JOB NUMBER

890-4115-1

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
2/22/2023 1:23:16 PM

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

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Laboratory Job ID: 890-4115-1
SDG: 03D2024145

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Definitions/Glossary

Client: Ensolum

Job ID: 890-4115-1

Project/Site: Cabo Wabo Sprayberry Booster

SDG: 03D2024145

Qualifiers

GC VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| 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: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Job ID: 890-4115-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4115-1

Receipt

The samples were received on 2/15/2023 4:45 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 5.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01A (890-4115-1), SS02A (890-4115-2), SS03A (890-4115-3), SS04A (890-4115-4), SS05A (890-4115-5), SS01B (890-4115-6), SS02B (890-4115-7), SS03B (890-4115-8), SS04B (890-4115-9) and SS05B (890-4115-10).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-46605 and analytical batch 880-46568 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.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-46595 and analytical batch 880-46617 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Client Sample ID: SS01A

Lab Sample ID: 890-4115-1

Date Collected: 02/15/23 10:45

Matrix: Solid

Date Received: 02/15/23 16:45

Sample Depth: 1

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 | | 02/17/23 14:29 | 02/18/23 05:59 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 02/17/23 14:29 | 02/18/23 05:59 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 02/17/23 14:29 | 02/18/23 05:59 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U ** | 0.00398 | mg/Kg | | 02/17/23 14:29 | 02/18/23 05:59 | 1 |
| o-Xylene | <0.00199 | U ** | 0.00199 | mg/Kg | | 02/17/23 14:29 | 02/18/23 05:59 | 1 |
| Xylenes, Total | <0.00398 | U ** | 0.00398 | mg/Kg | | 02/17/23 14:29 | 02/18/23 05:59 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | 02/17/23 14:29 | 02/18/23 05:59 | 1 |
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 | 02/17/23 14:29 | 02/18/23 05:59 | 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 | | | 02/20/23 14:15 | 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 | | | 02/20/23 15:20 | 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 | | 02/17/23 10:54 | 02/18/23 15:56 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 02/17/23 10:54 | 02/18/23 15:56 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 02/17/23 10:54 | 02/18/23 15:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 102 | | 70 - 130 | 02/17/23 10:54 | 02/18/23 15:56 | 1 |
| o-Terphenyl | 110 | | 70 - 130 | 02/17/23 10:54 | 02/18/23 15:56 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 797 | | 25.2 | mg/Kg | | | 02/21/23 09:19 | 5 |

Client Sample ID: SS02A

Lab Sample ID: 890-4115-2

Date Collected: 02/15/23 10:55

Matrix: Solid

Date Received: 02/15/23 16:45

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 | | 02/17/23 14:29 | 02/18/23 06:19 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 02/17/23 14:29 | 02/18/23 06:19 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 02/17/23 14:29 | 02/18/23 06:19 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U ** | 0.00402 | mg/Kg | | 02/17/23 14:29 | 02/18/23 06:19 | 1 |
| o-Xylene | <0.00201 | U ** | 0.00201 | mg/Kg | | 02/17/23 14:29 | 02/18/23 06:19 | 1 |
| Xylenes, Total | <0.00402 | U ** | 0.00402 | mg/Kg | | 02/17/23 14:29 | 02/18/23 06:19 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113 | | 70 - 130 | 02/17/23 14:29 | 02/18/23 06:19 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Client Sample ID: SS02A

Lab Sample ID: 890-4115-2

Date Collected: 02/15/23 10:55

Matrix: Solid

Date Received: 02/15/23 16:45

Sample Depth: 1

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 80 | | 70 - 130 | 02/17/23 14:29 | 02/18/23 06:19 | 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 | | | 02/20/23 14:15 | 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 | | | 02/20/23 15:20 | 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 | | 02/17/23 10:54 | 02/18/23 16:18 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/17/23 10:54 | 02/18/23 16:18 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/17/23 10:54 | 02/18/23 16:18 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 102 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 16:18 | 1 |
| o-Terphenyl | 109 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 16:18 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2630 | | 25.0 | mg/Kg | | | 02/21/23 09:38 | 5 |

Client Sample ID: SS03A

Lab Sample ID: 890-4115-3

Date Collected: 02/15/23 12:15

Matrix: Solid

Date Received: 02/15/23 16:45

Sample Depth: 1

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 | | 02/17/23 14:29 | 02/18/23 06:40 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 06:40 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 06:40 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U ** | 0.00401 | mg/Kg | | 02/17/23 14:29 | 02/18/23 06:40 | 1 |
| o-Xylene | <0.00200 | U ** | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 06:40 | 1 |
| Xylenes, Total | <0.00401 | U ** | 0.00401 | mg/Kg | | 02/17/23 14:29 | 02/18/23 06:40 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 115 | | 70 - 130 | 02/17/23 14:29 | 02/18/23 06:40 | 1 |
| 1,4-Difluorobenzene (Surr) | 77 | | 70 - 130 | 02/17/23 14:29 | 02/18/23 06:40 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 02/20/23 14:15 | 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 | | | 02/20/23 15:20 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Client Sample ID: SS03A

Lab Sample ID: 890-4115-3

Date Collected: 02/15/23 12:15

Matrix: Solid

Date Received: 02/15/23 16:45

Sample Depth: 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 | | 02/17/23 10:54 | 02/18/23 16:40 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 02/17/23 10:54 | 02/18/23 16:40 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 02/17/23 10:54 | 02/18/23 16:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 102 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 16:40 | 1 |
| o-Terphenyl | 106 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 16:40 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 717 | | 5.00 | mg/Kg | | | 02/21/23 09:44 | 1 |

Client Sample ID: SS04A

Lab Sample ID: 890-4115-4

Date Collected: 02/15/23 12:50

Matrix: Solid

Date Received: 02/15/23 16:45

Sample Depth: 1

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 | | 02/17/23 14:29 | 02/18/23 07:00 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:00 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:00 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U ** | 0.00399 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:00 | 1 |
| o-Xylene | <0.00200 | U ** | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:00 | 1 |
| Xylenes, Total | <0.00399 | U ** | 0.00399 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:00 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 | | | 02/17/23 14:29 | 02/18/23 07:00 | 1 |
| 1,4-Difluorobenzene (Surr) | 83 | | 70 - 130 | | | 02/17/23 14:29 | 02/18/23 07:00 | 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 | | | 02/20/23 14:15 | 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 | | | 02/20/23 15:20 | 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 | | 02/17/23 10:54 | 02/18/23 17:02 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/17/23 10:54 | 02/18/23 17:02 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/17/23 10:54 | 02/18/23 17:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 100 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 17:02 | 1 |
| o-Terphenyl | 106 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 17:02 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Client Sample ID: SS04A

Lab Sample ID: 890-4115-4

Date Collected: 02/15/23 12:50

Matrix: Solid

Date Received: 02/15/23 16:45

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 15.4 | | 5.03 | mg/Kg | | | 02/21/23 09:50 | 1 |

Client Sample ID: SS05A

Lab Sample ID: 890-4115-5

Date Collected: 02/15/23 13:00

Matrix: Solid

Date Received: 02/15/23 16:45

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 | | 02/17/23 14:29 | 02/18/23 07:21 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:21 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:21 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U ** | 0.00402 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:21 | 1 |
| o-Xylene | <0.00201 | U ** | 0.00201 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:21 | 1 |
| Xylenes, Total | <0.00402 | U ** | 0.00402 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 116 | | 70 - 130 | | | 02/17/23 14:29 | 02/18/23 07:21 | 1 |
| 1,4-Difluorobenzene (Surr) | 77 | | 70 - 130 | | | 02/17/23 14:29 | 02/18/23 07:21 | 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 | | | 02/20/23 14:15 | 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 | | | 02/20/23 15:20 | 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 | | 02/17/23 10:54 | 02/18/23 17:24 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/17/23 10:54 | 02/18/23 17:24 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/17/23 10:54 | 02/18/23 17:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 109 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 17:24 | 1 |
| o-Terphenyl | 116 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 17:24 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 45.7 | | 5.02 | mg/Kg | | | 02/21/23 09:56 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Client Sample ID: SS01B

Lab Sample ID: 890-4115-6

Date Collected: 02/15/23 12:10

Matrix: Solid

Date Received: 02/15/23 16:45

Sample Depth: 4

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:41 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:41 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:41 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U ** | 0.00403 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:41 | 1 |
| o-Xylene | <0.00202 | U ** | 0.00202 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:41 | 1 |
| Xylenes, Total | <0.00403 | U ** | 0.00403 | mg/Kg | | 02/17/23 14:29 | 02/18/23 07:41 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 115 | | 70 - 130 | 02/17/23 14:29 | 02/18/23 07:41 | 1 |
| 1,4-Difluorobenzene (Surr) | 88 | | 70 - 130 | 02/17/23 14:29 | 02/18/23 07:41 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 02/20/23 14:15 | 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 | | | 02/20/23 15:20 | 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 | | 02/17/23 10:54 | 02/18/23 17:47 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 02/17/23 10:54 | 02/18/23 17:47 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 02/17/23 10:54 | 02/18/23 17:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 79 | | 70 - 130 | 02/17/23 10:54 | 02/18/23 17:47 | 1 |
| o-Terphenyl | 89 | | 70 - 130 | 02/17/23 10:54 | 02/18/23 17:47 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 599 | | 4.98 | mg/Kg | | | 02/21/23 10:02 | 1 |

Client Sample ID: SS02B

Lab Sample ID: 890-4115-7

Date Collected: 02/15/23 11:45

Matrix: Solid

Date Received: 02/15/23 16:45

Sample Depth: 2

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 | | 02/17/23 14:29 | 02/18/23 08:02 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 02/17/23 14:29 | 02/18/23 08:02 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 02/17/23 14:29 | 02/18/23 08:02 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U ** | 0.00398 | mg/Kg | | 02/17/23 14:29 | 02/18/23 08:02 | 1 |
| o-Xylene | <0.00199 | U ** | 0.00199 | mg/Kg | | 02/17/23 14:29 | 02/18/23 08:02 | 1 |
| Xylenes, Total | <0.00398 | U ** | 0.00398 | mg/Kg | | 02/17/23 14:29 | 02/18/23 08:02 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 117 | | 70 - 130 | 02/17/23 14:29 | 02/18/23 08:02 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Client Sample ID: SS02B

Lab Sample ID: 890-4115-7

Date Collected: 02/15/23 11:45

Matrix: Solid

Date Received: 02/15/23 16:45

Sample Depth: 2

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 87 | | 70 - 130 | 02/17/23 14:29 | 02/18/23 08:02 | 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 | | | 02/20/23 14:15 | 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 | | | 02/20/23 15:20 | 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 | | 02/17/23 10:54 | 02/18/23 18:08 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/17/23 10:54 | 02/18/23 18:08 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/17/23 10:54 | 02/18/23 18:08 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 95 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 18:08 | 1 |
| o-Terphenyl | 106 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 18:08 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1230 | | 24.8 | mg/Kg | | | 02/21/23 10:09 | 5 |

Client Sample ID: SS03B

Lab Sample ID: 890-4115-8

Date Collected: 02/15/23 12:25

Matrix: Solid

Date Received: 02/15/23 16:45

Sample Depth: 3

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 | | 02/17/23 14:29 | 02/18/23 08:23 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 08:23 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 08:23 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U ** | 0.00399 | mg/Kg | | 02/17/23 14:29 | 02/18/23 08:23 | 1 |
| o-Xylene | <0.00200 | U ** | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 08:23 | 1 |
| Xylenes, Total | <0.00399 | U ** | 0.00399 | mg/Kg | | 02/17/23 14:29 | 02/18/23 08:23 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 | 02/17/23 14:29 | 02/18/23 08:23 | 1 |
| 1,4-Difluorobenzene (Surr) | 83 | | 70 - 130 | 02/17/23 14:29 | 02/18/23 08:23 | 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 | | | 02/20/23 14:15 | 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 | | | 02/20/23 15:20 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Client Sample ID: SS03B

Lab Sample ID: 890-4115-8

Date Collected: 02/15/23 12:25

Matrix: Solid

Date Received: 02/15/23 16:45

Sample Depth: 3

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 | | 02/17/23 10:54 | 02/18/23 18:31 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/17/23 10:54 | 02/18/23 18:31 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/17/23 10:54 | 02/18/23 18:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 97 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 18:31 | 1 |
| o-Terphenyl | 102 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 18:31 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 374 | | 4.96 | mg/Kg | | | 02/21/23 10:27 | 1 |

Client Sample ID: SS04B

Lab Sample ID: 890-4115-9

Date Collected: 02/15/23 12:55

Matrix: Solid

Date Received: 02/15/23 16:45

Sample Depth: 2

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 | | 02/17/23 14:29 | 02/18/23 08:43 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 02/17/23 14:29 | 02/18/23 08:43 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 02/17/23 14:29 | 02/18/23 08:43 | 1 |
| m-Xylene & p-Xylene | <0.00397 | U ** | 0.00397 | mg/Kg | | 02/17/23 14:29 | 02/18/23 08:43 | 1 |
| o-Xylene | <0.00198 | U ** | 0.00198 | mg/Kg | | 02/17/23 14:29 | 02/18/23 08:43 | 1 |
| Xylenes, Total | <0.00397 | U ** | 0.00397 | mg/Kg | | 02/17/23 14:29 | 02/18/23 08:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95 | | 70 - 130 | | | 02/17/23 14:29 | 02/18/23 08:43 | 1 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | | | 02/17/23 14:29 | 02/18/23 08:43 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U | 0.00397 | mg/Kg | | | 02/20/23 14:15 | 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 | | | 02/20/23 15:20 | 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 | | 02/17/23 10:54 | 02/18/23 18:54 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/17/23 10:54 | 02/18/23 18:54 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/17/23 10:54 | 02/18/23 18:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 104 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 18:54 | 1 |
| o-Terphenyl | 112 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 18:54 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Client Sample ID: SS04B

Lab Sample ID: 890-4115-9

Date Collected: 02/15/23 12:55

Matrix: Solid

Date Received: 02/15/23 16:45

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 240 | | 4.97 | mg/Kg | | | 02/21/23 10:33 | 1 |

Client Sample ID: SS05B

Lab Sample ID: 890-4115-10

Date Collected: 02/15/23 13:05

Matrix: Solid

Date Received: 02/15/23 16:45

Sample Depth: 2

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 | | 02/17/23 14:29 | 02/18/23 09:04 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 09:04 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 09:04 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U ** | 0.00400 | mg/Kg | | 02/17/23 14:29 | 02/18/23 09:04 | 1 |
| o-Xylene | <0.00200 | U ** | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 09:04 | 1 |
| Xylenes, Total | <0.00400 | U ** | 0.00400 | mg/Kg | | 02/17/23 14:29 | 02/18/23 09:04 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 | | | 02/17/23 14:29 | 02/18/23 09:04 | 1 |
| 1,4-Difluorobenzene (Surr) | 88 | | 70 - 130 | | | 02/17/23 14:29 | 02/18/23 09:04 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 02/20/23 14:15 | 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 | | | 02/20/23 15:20 | 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 | | 02/17/23 10:54 | 02/18/23 19:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 02/17/23 10:54 | 02/18/23 19:16 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/17/23 10:54 | 02/18/23 19:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 97 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 19:16 | 1 |
| o-Terphenyl | 107 | | 70 - 130 | | | 02/17/23 10:54 | 02/18/23 19:16 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 108 | | 5.03 | mg/Kg | | | 02/21/23 10:52 | 1 |

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Surrogate Summary

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|-----------------------------------|------------------------|--|----------|--|--|--|--|
| Lab Sample ID | Client Sample ID | BFB1 | DFBZ1 | | | | |
| | | (70-130) | (70-130) | | | | |
| 880-24885-A-1-D MS | Matrix Spike | 110 | 106 | | | | |
| 880-24885-A-1-E MSD | Matrix Spike Duplicate | 104 | 103 | | | | |
| 890-4115-1 | SS01A | 105 | 89 | | | | |
| 890-4115-2 | SS02A | 113 | 80 | | | | |
| 890-4115-3 | SS03A | 115 | 77 | | | | |
| 890-4115-4 | SS04A | 108 | 83 | | | | |
| 890-4115-5 | SS05A | 116 | 77 | | | | |
| 890-4115-6 | SS01B | 115 | 88 | | | | |
| 890-4115-7 | SS02B | 117 | 87 | | | | |
| 890-4115-8 | SS03B | 118 | 83 | | | | |
| 890-4115-9 | SS04B | 95 | 93 | | | | |
| 890-4115-10 | SS05B | 92 | 88 | | | | |
| LCS 880-46605/1-A | Lab Control Sample | 114 | 108 | | | | |
| LCSD 880-46605/2-A | Lab Control Sample Dup | 120 | 96 | | | | |
| MB 880-46605/5-A | Method Blank | 76 | 91 | | | | |
| 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 | OTPH1 | | | | |
| | | (70-130) | (70-130) | | | | |
| 880-24875-A-37-B MS | Matrix Spike | 100 | 93 | | | | |
| 880-24875-A-37-C MSD | Matrix Spike Duplicate | 97 | 92 | | | | |
| 890-4115-1 | SS01A | 102 | 110 | | | | |
| 890-4115-2 | SS02A | 102 | 109 | | | | |
| 890-4115-3 | SS03A | 102 | 106 | | | | |
| 890-4115-4 | SS04A | 100 | 106 | | | | |
| 890-4115-5 | SS05A | 109 | 116 | | | | |
| 890-4115-6 | SS01B | 79 | 89 | | | | |
| 890-4115-7 | SS02B | 95 | 106 | | | | |
| 890-4115-8 | SS03B | 97 | 102 | | | | |
| 890-4115-9 | SS04B | 104 | 112 | | | | |
| 890-4115-10 | SS05B | 97 | 107 | | | | |
| LCS 880-46595/2-A | Lab Control Sample | 108 | 118 | | | | |
| LCSD 880-46595/3-A | Lab Control Sample Dup | 106 | 117 | | | | |
| MB 880-46595/1-A | Method Blank | 97 | 118 | | | | |
| Surrogate Legend | | | | | | | |
| 1CO = 1-Chlorooctane | | | | | | | |
| OTPH = o-Terphenyl | | | | | | | |

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QC Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46605/5-A

Matrix: Solid

Analysis Batch: 46568

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46605

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 01:10 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 01:10 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 01:10 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/17/23 14:29 | 02/18/23 01:10 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/17/23 14:29 | 02/18/23 01:10 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/17/23 14:29 | 02/18/23 01:10 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 76 | | 70 - 130 | 02/17/23 14:29 | 02/18/23 01:10 | 1 |
| 1,4-Difluorobenzene (Surr) | 91 | | 70 - 130 | 02/17/23 14:29 | 02/18/23 01:10 | 1 |

Lab Sample ID: LCS 880-46605/1-A

Matrix: Solid

Analysis Batch: 46568

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46605

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene | 0.100 | 0.1169 | | mg/Kg | | 117 | 70 - 130 |
| Toluene | 0.100 | 0.1137 | | mg/Kg | | 114 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1212 | | mg/Kg | | 121 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2622 | *+ | mg/Kg | | 131 | 70 - 130 |
| o-Xylene | 0.100 | 0.1325 | *+ | mg/Kg | | 133 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 114 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 |

Lab Sample ID: LCSD 880-46605/2-A

Matrix: Solid

Analysis Batch: 46568

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46605

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Benzene | 0.100 | 0.1157 | | mg/Kg | | 116 | 70 - 130 | 1 | 35 |
| Toluene | 0.100 | 0.1144 | | mg/Kg | | 114 | 70 - 130 | 1 | 35 |
| Ethylbenzene | 0.100 | 0.1190 | | mg/Kg | | 119 | 70 - 130 | 2 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2570 | | mg/Kg | | 129 | 70 - 130 | 2 | 35 |
| o-Xylene | 0.100 | 0.1300 | | mg/Kg | | 130 | 70 - 130 | 2 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 120 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 |

Lab Sample ID: 880-24885-A-1-D MS

Matrix: Solid

Analysis Batch: 46568

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46605

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Benzene | <0.00202 | U | 0.101 | 0.1040 | | mg/Kg | | 103 | 70 - 130 |
| Toluene | <0.00202 | U | 0.101 | 0.09838 | | mg/Kg | | 98 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

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

Lab Sample ID: 880-24885-A-1-D MS

Matrix: Solid

Analysis Batch: 46568

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46605

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene | <0.00202 | U | 0.101 | 0.1021 | | mg/Kg | | 101 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00403 | U * | 0.202 | 0.2157 | | mg/Kg | | 107 | 70 - 130 |
| o-Xylene | <0.00202 | U * | 0.101 | 0.1075 | | mg/Kg | | 107 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 |

Lab Sample ID: 880-24885-A-1-E MSD

Matrix: Solid

Analysis Batch: 46568

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46605

| 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 | 0.09782 | | mg/Kg | | 98 | 70 - 130 | 6 | 35 |
| Toluene | <0.00202 | U | 0.0996 | 0.09762 | | mg/Kg | | 98 | 70 - 130 | 1 | 35 |
| Ethylbenzene | <0.00202 | U | 0.0996 | 0.09330 | | mg/Kg | | 94 | 70 - 130 | 9 | 35 |
| m-Xylene & p-Xylene | <0.00403 | U * | 0.199 | 0.1931 | | mg/Kg | | 97 | 70 - 130 | 11 | 35 |
| o-Xylene | <0.00202 | U * | 0.0996 | 0.09591 | | mg/Kg | | 96 | 70 - 130 | 11 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 |

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

Lab Sample ID: MB 880-46595/1-A

Matrix: Solid

Analysis Batch: 46617

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46595

| 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 | | 02/17/23 10:54 | 02/18/23 08:39 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/17/23 10:54 | 02/18/23 08:39 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/17/23 10:54 | 02/18/23 08:39 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 97 | | 70 - 130 | 02/17/23 10:54 | 02/18/23 08:39 | 1 |
| o-Terphenyl | 118 | | 70 - 130 | 02/17/23 10:54 | 02/18/23 08:39 | 1 |

Lab Sample ID: LCS 880-46595/2-A

Matrix: Solid

Analysis Batch: 46617

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46595

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 907.8 | | mg/Kg | | 91 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 937.0 | | mg/Kg | | 94 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

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

Lab Sample ID: LCS 880-46595/2-A
Matrix: Solid
Analysis Batch: 46617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46595

| | LCS | LCS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 108 | | 70 - 130 |
| o-Terphenyl | 118 | | 70 - 130 |

Lab Sample ID: LCSD 880-46595/3-A
Matrix: Solid
Analysis Batch: 46617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46595

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|-----------|-----------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 935.8 | | mg/Kg | | 94 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 921.9 | | mg/Kg | | 92 | 70 - 130 | 2 | 20 |
| Surrogate | LCSD | LCSD | | | | | | | | | |
| | %Recovery | Qualifier | | | | | | | | | |
| 1-Chlorooctane | 106 | | | | | | | | | | |
| o-Terphenyl | 117 | | | | | | | | | | |

Lab Sample ID: 880-24875-A-37-B MS
Matrix: Solid
Analysis Batch: 46617

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 46595

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|--|--|
| Gasoline Range Organics (GRO)-C6-C10 | 219 | | 1000 | 1225 | | mg/Kg | | 101 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | 701 | F1 | 1000 | 1326 | F1 | mg/Kg | | 63 | 70 - 130 | | |
| Surrogate | MS | MS | | | | | | | | | |
| | %Recovery | Qualifier | | | | | | | | | |
| 1-Chlorooctane | 100 | | | | | | | | | | |
| o-Terphenyl | 93 | | | | | | | | | | |

Lab Sample ID: 880-24875-A-37-C MSD
Matrix: Solid
Analysis Batch: 46617

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 46595

| 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 | 219 | | 1000 | 1184 | | mg/Kg | | 97 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | 701 | F1 | 1000 | 1281 | F1 | mg/Kg | | 58 | 70 - 130 | 3 | 20 |
| Surrogate | MSD | MSD | | | | | | | | | |
| | %Recovery | Qualifier | | | | | | | | | |
| 1-Chlorooctane | 97 | | | | | | | | | | |
| o-Terphenyl | 92 | | | | | | | | | | |

QC Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Method: 300.0 - Anions, Ion Chromatography

| | | | | | | | | | | | |
|---|-----------|--------------|------|-------|---|----------|----------------|---------|--|--|--|
| Lab Sample ID: MB 880-46600/1-A Matrix: Solid Analysis Batch: 46816 | | | | | | | | | | 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 | | | 02/21/23 08:24 | 1 | | | |

| | | | | | | | | | | | |
|--|--|--|-------------|------------|---------------|-------|---|------|-------------|--|--|
| Lab Sample ID: LCS 880-46600/2-A Matrix: Solid Analysis Batch: 46816 | | | | | | | | | | Client Sample ID: Lab Control Sample Prep Type: Soluble | |
| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
| Chloride | | | 250 | 235.3 | | mg/Kg | | 94 | 90 - 110 | | |

| | | | | | | | | | | | |
|---|--|--|-------------|-------------|----------------|-------|---|------|-------------|--|-----------|
| Lab Sample ID: LCSD 880-46600/3-A Matrix: Solid Analysis Batch: 46816 | | | | | | | | | | 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 | 235.4 | | mg/Kg | | 94 | 90 - 110 | 0 | 20 |

| | | | | | | | | | | | |
|--|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|---|--|
| Lab Sample ID: 890-4115-7 MS Matrix: Solid Analysis Batch: 46816 | | | | | | | | | | Client Sample ID: SS02B Prep Type: Soluble | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
| Chloride | 1230 | | 1240 | 2583 | | mg/Kg | | 109 | 90 - 110 | | |

| | | | | | | | | | | | |
|---|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|---|-----------|
| Lab Sample ID: 890-4115-7 MSD Matrix: Solid Analysis Batch: 46816 | | | | | | | | | | Client Sample ID: SS02B Prep Type: Soluble | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
| Chloride | 1230 | | 1240 | 2583 | | mg/Kg | | 109 | 90 - 110 | 0 | 20 |

QC Association Summary

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

GC VOA

Analysis Batch: 46568

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-4115-1 | SS01A | Total/NA | Solid | 8021B | 46605 |
| 890-4115-2 | SS02A | Total/NA | Solid | 8021B | 46605 |
| 890-4115-3 | SS03A | Total/NA | Solid | 8021B | 46605 |
| 890-4115-4 | SS04A | Total/NA | Solid | 8021B | 46605 |
| 890-4115-5 | SS05A | Total/NA | Solid | 8021B | 46605 |
| 890-4115-6 | SS01B | Total/NA | Solid | 8021B | 46605 |
| 890-4115-7 | SS02B | Total/NA | Solid | 8021B | 46605 |
| 890-4115-8 | SS03B | Total/NA | Solid | 8021B | 46605 |
| 890-4115-9 | SS04B | Total/NA | Solid | 8021B | 46605 |
| 890-4115-10 | SS05B | Total/NA | Solid | 8021B | 46605 |
| MB 880-46605/5-A | Method Blank | Total/NA | Solid | 8021B | 46605 |
| LCS 880-46605/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 46605 |
| LCSD 880-46605/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 46605 |
| 880-24885-A-1-D MS | Matrix Spike | Total/NA | Solid | 8021B | 46605 |
| 880-24885-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 46605 |

Prep Batch: 46605

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-4115-1 | SS01A | Total/NA | Solid | 5035 | |
| 890-4115-2 | SS02A | Total/NA | Solid | 5035 | |
| 890-4115-3 | SS03A | Total/NA | Solid | 5035 | |
| 890-4115-4 | SS04A | Total/NA | Solid | 5035 | |
| 890-4115-5 | SS05A | Total/NA | Solid | 5035 | |
| 890-4115-6 | SS01B | Total/NA | Solid | 5035 | |
| 890-4115-7 | SS02B | Total/NA | Solid | 5035 | |
| 890-4115-8 | SS03B | Total/NA | Solid | 5035 | |
| 890-4115-9 | SS04B | Total/NA | Solid | 5035 | |
| 890-4115-10 | SS05B | Total/NA | Solid | 5035 | |
| MB 880-46605/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-46605/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-46605/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-24885-A-1-D MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-24885-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 46749

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-4115-1 | SS01A | Total/NA | Solid | Total BTEX | |
| 890-4115-2 | SS02A | Total/NA | Solid | Total BTEX | |
| 890-4115-3 | SS03A | Total/NA | Solid | Total BTEX | |
| 890-4115-4 | SS04A | Total/NA | Solid | Total BTEX | |
| 890-4115-5 | SS05A | Total/NA | Solid | Total BTEX | |
| 890-4115-6 | SS01B | Total/NA | Solid | Total BTEX | |
| 890-4115-7 | SS02B | Total/NA | Solid | Total BTEX | |
| 890-4115-8 | SS03B | Total/NA | Solid | Total BTEX | |
| 890-4115-9 | SS04B | Total/NA | Solid | Total BTEX | |
| 890-4115-10 | SS05B | Total/NA | Solid | Total BTEX | |

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QC Association Summary

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

GC Semi VOA

Prep Batch: 46595

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| 890-4115-1 | SS01A | Total/NA | Solid | 8015NM Prep | |
| 890-4115-2 | SS02A | Total/NA | Solid | 8015NM Prep | |
| 890-4115-3 | SS03A | Total/NA | Solid | 8015NM Prep | |
| 890-4115-4 | SS04A | Total/NA | Solid | 8015NM Prep | |
| 890-4115-5 | SS05A | Total/NA | Solid | 8015NM Prep | |
| 890-4115-6 | SS01B | Total/NA | Solid | 8015NM Prep | |
| 890-4115-7 | SS02B | Total/NA | Solid | 8015NM Prep | |
| 890-4115-8 | SS03B | Total/NA | Solid | 8015NM Prep | |
| 890-4115-9 | SS04B | Total/NA | Solid | 8015NM Prep | |
| 890-4115-10 | SS05B | Total/NA | Solid | 8015NM Prep | |
| MB 880-46595/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-46595/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-46595/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-24875-A-37-B MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-24875-A-37-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 46617

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 890-4115-1 | SS01A | Total/NA | Solid | 8015B NM | 46595 |
| 890-4115-2 | SS02A | Total/NA | Solid | 8015B NM | 46595 |
| 890-4115-3 | SS03A | Total/NA | Solid | 8015B NM | 46595 |
| 890-4115-4 | SS04A | Total/NA | Solid | 8015B NM | 46595 |
| 890-4115-5 | SS05A | Total/NA | Solid | 8015B NM | 46595 |
| 890-4115-6 | SS01B | Total/NA | Solid | 8015B NM | 46595 |
| 890-4115-7 | SS02B | Total/NA | Solid | 8015B NM | 46595 |
| 890-4115-8 | SS03B | Total/NA | Solid | 8015B NM | 46595 |
| 890-4115-9 | SS04B | Total/NA | Solid | 8015B NM | 46595 |
| 890-4115-10 | SS05B | Total/NA | Solid | 8015B NM | 46595 |
| MB 880-46595/1-A | Method Blank | Total/NA | Solid | 8015B NM | 46595 |
| LCS 880-46595/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 46595 |
| LCSD 880-46595/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 46595 |
| 880-24875-A-37-B MS | Matrix Spike | Total/NA | Solid | 8015B NM | 46595 |
| 880-24875-A-37-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 46595 |

Analysis Batch: 46795

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-4115-1 | SS01A | Total/NA | Solid | 8015 NM | |
| 890-4115-2 | SS02A | Total/NA | Solid | 8015 NM | |
| 890-4115-3 | SS03A | Total/NA | Solid | 8015 NM | |
| 890-4115-4 | SS04A | Total/NA | Solid | 8015 NM | |
| 890-4115-5 | SS05A | Total/NA | Solid | 8015 NM | |
| 890-4115-6 | SS01B | Total/NA | Solid | 8015 NM | |
| 890-4115-7 | SS02B | Total/NA | Solid | 8015 NM | |
| 890-4115-8 | SS03B | Total/NA | Solid | 8015 NM | |
| 890-4115-9 | SS04B | Total/NA | Solid | 8015 NM | |
| 890-4115-10 | SS05B | Total/NA | Solid | 8015 NM | |

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QC Association Summary

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

HPLC/IC

Leach Batch: 46600

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-4115-1 | SS01A | Soluble | Solid | DI Leach | |
| 890-4115-2 | SS02A | Soluble | Solid | DI Leach | |
| 890-4115-3 | SS03A | Soluble | Solid | DI Leach | |
| 890-4115-4 | SS04A | Soluble | Solid | DI Leach | |
| 890-4115-5 | SS05A | Soluble | Solid | DI Leach | |
| 890-4115-6 | SS01B | Soluble | Solid | DI Leach | |
| 890-4115-7 | SS02B | Soluble | Solid | DI Leach | |
| 890-4115-8 | SS03B | Soluble | Solid | DI Leach | |
| 890-4115-9 | SS04B | Soluble | Solid | DI Leach | |
| 890-4115-10 | SS05B | Soluble | Solid | DI Leach | |
| MB 880-46600/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-46600/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-46600/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-4115-7 MS | SS02B | Soluble | Solid | DI Leach | |
| 890-4115-7 MSD | SS02B | Soluble | Solid | DI Leach | |

Analysis Batch: 46816

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4115-1 | SS01A | Soluble | Solid | 300.0 | 46600 |
| 890-4115-2 | SS02A | Soluble | Solid | 300.0 | 46600 |
| 890-4115-3 | SS03A | Soluble | Solid | 300.0 | 46600 |
| 890-4115-4 | SS04A | Soluble | Solid | 300.0 | 46600 |
| 890-4115-5 | SS05A | Soluble | Solid | 300.0 | 46600 |
| 890-4115-6 | SS01B | Soluble | Solid | 300.0 | 46600 |
| 890-4115-7 | SS02B | Soluble | Solid | 300.0 | 46600 |
| 890-4115-8 | SS03B | Soluble | Solid | 300.0 | 46600 |
| 890-4115-9 | SS04B | Soluble | Solid | 300.0 | 46600 |
| 890-4115-10 | SS05B | Soluble | Solid | 300.0 | 46600 |
| MB 880-46600/1-A | Method Blank | Soluble | Solid | 300.0 | 46600 |
| LCS 880-46600/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 46600 |
| LCSD 880-46600/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 46600 |
| 890-4115-7 MS | SS02B | Soluble | Solid | 300.0 | 46600 |
| 890-4115-7 MSD | SS02B | Soluble | Solid | 300.0 | 46600 |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Client Sample ID: SS01A

Lab Sample ID: 890-4115-1

Date Collected: 02/15/23 10:45

Matrix: Solid

Date Received: 02/15/23 16:45

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 46605 | 02/17/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 46568 | 02/18/23 05:59 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 46749 | 02/20/23 14:15 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 46795 | 02/20/23 15:20 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 46595 | 02/17/23 10:54 | SM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46617 | 02/18/23 15:56 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 46600 | 02/17/23 12:49 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 46816 | 02/21/23 09:19 | CH | EET MID |

Client Sample ID: SS02A

Lab Sample ID: 890-4115-2

Date Collected: 02/15/23 10:55

Matrix: Solid

Date Received: 02/15/23 16:45

| 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 | 46605 | 02/17/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 46568 | 02/18/23 06:19 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 46749 | 02/20/23 14:15 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 46795 | 02/20/23 15:20 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 46595 | 02/17/23 10:54 | SM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46617 | 02/18/23 16:18 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 46600 | 02/17/23 12:49 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 46816 | 02/21/23 09:38 | CH | EET MID |

Client Sample ID: SS03A

Lab Sample ID: 890-4115-3

Date Collected: 02/15/23 12:15

Matrix: Solid

Date Received: 02/15/23 16:45

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 46605 | 02/17/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 46568 | 02/18/23 06:40 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 46749 | 02/20/23 14:15 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 46795 | 02/20/23 15:20 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 46595 | 02/17/23 10:54 | SM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46617 | 02/18/23 16:40 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 46600 | 02/17/23 12:49 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 46816 | 02/21/23 09:44 | CH | EET MID |

Client Sample ID: SS04A

Lab Sample ID: 890-4115-4

Date Collected: 02/15/23 12:50

Matrix: Solid

Date Received: 02/15/23 16:45

| 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 | 46605 | 02/17/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 46568 | 02/18/23 07:00 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 46749 | 02/20/23 14:15 | AJ | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Client Sample ID: SS04A

Date Collected: 02/15/23 12:50

Date Received: 02/15/23 16:45

Lab Sample ID: 890-4115-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 46795 | 02/20/23 15:20 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 46595 | 02/17/23 10:54 | SM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46617 | 02/18/23 17:02 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 46600 | 02/17/23 12:49 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 46816 | 02/21/23 09:50 | CH | EET MID |

Client Sample ID: SS05A

Date Collected: 02/15/23 13:00

Date Received: 02/15/23 16:45

Lab Sample ID: 890-4115-5

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 | 46605 | 02/17/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 46568 | 02/18/23 07:21 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 46749 | 02/20/23 14:15 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 46795 | 02/20/23 15:20 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 46595 | 02/17/23 10:54 | SM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46617 | 02/18/23 17:24 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 46600 | 02/17/23 12:49 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 46816 | 02/21/23 09:56 | CH | EET MID |

Client Sample ID: SS01B

Date Collected: 02/15/23 12:10

Date Received: 02/15/23 16:45

Lab Sample ID: 890-4115-6

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 | | | 4.96 g | 5 mL | 46605 | 02/17/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 46568 | 02/18/23 07:41 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 46749 | 02/20/23 14:15 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 46795 | 02/20/23 15:20 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 46595 | 02/17/23 10:54 | SM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46617 | 02/18/23 17:47 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 46600 | 02/17/23 12:49 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 46816 | 02/21/23 10:02 | CH | EET MID |

Client Sample ID: SS02B

Date Collected: 02/15/23 11:45

Date Received: 02/15/23 16:45

Lab Sample ID: 890-4115-7

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 | | | 5.02 g | 5 mL | 46605 | 02/17/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 46568 | 02/18/23 08:02 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 46749 | 02/20/23 14:15 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 46795 | 02/20/23 15:20 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 46595 | 02/17/23 10:54 | SM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46617 | 02/18/23 18:08 | AJ | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Client Sample ID: SS02B
Date Collected: 02/15/23 11:45
Date Received: 02/15/23 16:45

Lab Sample ID: 890-4115-7
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 46600 | 02/17/23 12:49 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 46816 | 02/21/23 10:09 | CH | EET MID |

Client Sample ID: SS03B
Date Collected: 02/15/23 12:25
Date Received: 02/15/23 16:45

Lab Sample ID: 890-4115-8
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 | 46605 | 02/17/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 46568 | 02/18/23 08:23 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 46749 | 02/20/23 14:15 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 46795 | 02/20/23 15:20 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 46595 | 02/17/23 10:54 | SM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46617 | 02/18/23 18:31 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 46600 | 02/17/23 12:49 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 46816 | 02/21/23 10:27 | CH | EET MID |

Client Sample ID: SS04B
Date Collected: 02/15/23 12:55
Date Received: 02/15/23 16:45

Lab Sample ID: 890-4115-9
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.04 g | 5 mL | 46605 | 02/17/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 46568 | 02/18/23 08:43 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 46749 | 02/20/23 14:15 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 46795 | 02/20/23 15:20 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 46595 | 02/17/23 10:54 | SM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46617 | 02/18/23 18:54 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 46600 | 02/17/23 12:49 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 46816 | 02/21/23 10:33 | CH | EET MID |

Client Sample ID: SS05B
Date Collected: 02/15/23 13:05
Date Received: 02/15/23 16:45

Lab Sample ID: 890-4115-10
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 | | | 5.00 g | 5 mL | 46605 | 02/17/23 14:29 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 46568 | 02/18/23 09:04 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 46749 | 02/20/23 14:15 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 46795 | 02/20/23 15:20 | AJ | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 46595 | 02/17/23 10:54 | SM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 46617 | 02/18/23 19:16 | AJ | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 46600 | 02/17/23 12:49 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 46816 | 02/21/23 10:52 | CH | EET MID |

Lab Chronicle

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

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

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

Laboratory: Eurofins Midland

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

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: Cabo Wabo Sprayberry Booster

Job ID: 890-4115-1
SDG: 03D2024145

| 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

Job ID: 890-4115-1

Project/Site: Cabo Wabo Sprayberry Booster

SDG: 03D2024145

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-4115-1 | SS01A | Solid | 02/15/23 10:45 | 02/15/23 16:45 | 1 |
| 890-4115-2 | SS02A | Solid | 02/15/23 10:55 | 02/15/23 16:45 | 1 |
| 890-4115-3 | SS03A | Solid | 02/15/23 12:15 | 02/15/23 16:45 | 1 |
| 890-4115-4 | SS04A | Solid | 02/15/23 12:50 | 02/15/23 16:45 | 1 |
| 890-4115-5 | SS05A | Solid | 02/15/23 13:00 | 02/15/23 16:45 | 1 |
| 890-4115-6 | SS01B | Solid | 02/15/23 12:10 | 02/15/23 16:45 | 4 |
| 890-4115-7 | SS02B | Solid | 02/15/23 11:45 | 02/15/23 16:45 | 2 |
| 890-4115-8 | SS03B | Solid | 02/15/23 12:25 | 02/15/23 16:45 | 3 |
| 890-4115-9 | SS04B | Solid | 02/15/23 12:55 | 02/15/23 16:45 | 2 |
| 890-4115-10 | SS05B | Solid | 02/15/23 13:05 | 02/15/23 16:45 | 2 |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4115-1

SDG Number: 03D2024145

Login Number: 4115

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: 890-4115-1

SDG Number: 03D2024145

Login Number: 4115

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 02/17/23 11:14 AM

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



APPENDIX D

NMOCD Notifications

From: [Hadlie Green](#)
To: [Bratcher, Michael, EMNRD](#)
Cc: [Carlile, Justin](#)
Subject: FW: COG - Denial - Remediation Work Plan - Cabo Wabo Federal Com 704H, 705H & 706H (Incident Number NAPP2301334575)
Date: Monday, September 11, 2023 8:24:00 AM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)

Good morning Mr. Bratcher,

I'm looking to have a conversation about a recent Remediation Work Plan denial. Below, you will find the corresponding email chain requesting reconsideration of approval of the Remediation Work Plan with Conditions of Approval (COAs).

I appreciate your help in advance and look forward to talking with you. Please feel free to call me directly at 432-557-8895 or if you would like to present a time to talk through Microsoft Teams, I would be happy to do that as well.

Thank you,



Hadlie Green
Project Geologist
432-557-8895
hgreen@ensolum.com
Ensolum, LLC
in f 

From: Hadlie Green
Sent: Wednesday, September 6, 2023 7:38 AM
To: Robert.Hamlet@state.nm.us
Cc: [Carlile, Justin <Justin.Carlile@conocophillips.com>](mailto:Justin.Carlile@conocophillips.com)
Subject: RE: COG - Denial - Remediation Work Plan - Cabo Wabo Federal Com 704H, 705H & 706H (Incident Number NAPP2301334575)

Good afternoon Mr. Hamlet,

I just wanted to circle back on my email below regarding a recent denial. I look forward to hearing from you.

Thank you,

Hadlie Green
Project Geologist
432-557-8895
hgreen@ensolum.com



Ensolum, LLC
in f

From: Hadlie Green
Sent: Thursday, August 24, 2023 2:31 PM
To: Robert.Hamlet@state.nm.us
Cc: Carlile, Justin <Justin.Carlile@conocophillips.com>
Subject: COG - Denial - Remediation Work Plan - Cabo Wabo Federal Com 704H, 705H & 706H
(Incident Number NAPP2301334575)

Hello Mr. Hamlet,

COG Operating, LLC has given me permission to talk with you regarding their active Incident Number NAPP2301334575 – Cabo Wabo Federal Com 704H, 705H & 706H. COG submitted a Remediation Work Plan (attached) to NMOCD on April 4, 2023 detailing site assessment activities and proposing excavation of impacted soil to the site-specific Closure Criteria, which is the strictest based on flood potential. You reviewed the Remediation Work Plan and denied it on August 18, 2023 with the following reasons:

- **The Remediation Plan is Denied. Limited soil removal around subsurface pipelines is denied. Contaminated soil should be removed safely with alternative methods. Due to the sensitive nature of the release location, the variance for 500 ft² confirmation samples is denied. Please collect confirmation samples, representing no more than 200 ft². Off-pad, all horizontal delineation samples must come from the sidewalls of the excavation. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed.**

The subsurface pipeline referred to in the Remediation Work Plan is a high-pressure gas line owned and operated by Kinder Morgan (see photo below). This pipeline is estimated to be 10-15 feet to the east of our release extent (orange) and we do not believe that this will be in conflict with excavation activities. The surface polylines in the photo below have been removed. We will spot this pipeline via hydrovac and remove all impacted soil within our release extent. Confirmation samples will be collected from the floor and sidewalls of the excavation every 200 square feet and all samples will meet the strictest Table I Closure Criteria.



I would like to talk through this with you if you have some time in the next few days and request that you reconsider approval of the Remediation Work Plan with Conditions of Approval (COAs).

I appreciate your help in advance and look forward to talking with you. Please feel free to call me directly at 432-557-8895 or if you would like to present a time to talk through Microsoft Teams, I would be happy to do that as well.

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC

in f 



APPENDIX E

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 | NAPP2301334575 |
| District RP | |
| Facility ID | fAPP2203847910 |
| Application ID | |

Release Notification

Responsible Party

| | | | |
|-------------------------|--|------------------------------|----------------|
| Responsible Party | COG Operating, LLC | OGRID | 229137 |
| Contact Name | Justin Carlile | Contact Telephone | (432) 202-4112 |
| Contact email | Justin.Carlile@ConocoPhillips.com | Incident # (assigned by OCD) | NAPP2301334575 |
| Contact mailing address | 600 West Illinois Avenue, Midland, Texas 79701 | | |

Location of Release Source

Latitude 32.0963 Longitude -103.9541
(NAD 83 in decimal degrees to 5 decimal places)

| | | | |
|-------------------------|---|----------------------|----------|
| Site Name | Cabo Wabo Federal Com 704H, 705H & 706H | Site Type | Flowline |
| Date Release Discovered | December 30, 2022 | API# (if applicable) | |

| | | | | |
|-------------|---------|----------|-------|--------|
| Unit Letter | Section | Township | Range | County |
| O | 26 | 25S | 29E | Eddy |

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

| | | |
|--|--|--|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input checked="" type="checkbox"/> Other (describe) Treated Produced Water | Volume/Weight Released (provide units) 14.8 bbls | Volume/Weight Recovered (provide units) 14 bbls |

Cause of Release

The release was caused by a leak in the pump housing.
The release was off the pad. A vacuum truck was dispatched to remove all freestanding fluids.
Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

| | |
|----------------|----------------|
| Incident ID | NAPP2301334575 |
| District RP | |
| Facility ID | fAPP2203847910 |
| Application ID | |

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

Initial Response

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

| | |
|--|--|
| <input checked="" type="checkbox"/> The source of the release has been stopped. | |
| <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. | |
| <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. | |
| <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: | |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| Printed Name Brittany N. Esparza | Title: Environmental Technician |
| Signature:  | Date: 1/12/2023 |
| email: Brittany.Esparza@ConocoPhillips.com | Telephone: (432) 221-0398 |
| <u>OCD Only</u> | |
| Received by: Jocelyn Harimon | Date: 01/13/2023 |

L48 Spill Volume Estimate Form

| | | | |
|---------------------------------------|--|------------------------|----------------|
| Received by OCD: 1/13/2023 9:43:26 AM | Facility Name & Number: | cabo booster pump 2 | NAPP2301334575 |
| | Asset Area: | china draw | |
| | Release Discovery Date & Time: | 12/29/2022 | |
| | Release Type: | Produced Water | |
| | Provide any known details about the event: | valve break at booster | |

Spill Calculation - On Pad Surface Pool Spill

| Convert Irregular shape into a series of rectangles | Length (ft.) | Width (ft.) | Deepest point in each of the areas (in.) | No. of boundaries of "shore" in each area | Estimated <u>Pool</u> Area (sq. ft.) | Estimated Average Depth (ft.) | Estimated volume of each pool area (bbl.) | Penetration allowance (ft.) | Total Estimated Volume of Spill (bbl.) |
|---|--------------|-------------|--|---|--------------------------------------|-------------------------------|---|-----------------------------|--|
| Rectangle A | 6.0 | 800.0 | 0.25 | 4 | 4800.000 | 0.005 | 4.450 | 0.000 | 4.451 |
| Rectangle B | 18.0 | 20.0 | 0.25 | 4 | 360.000 | 0.005 | 0.334 | 0.000 | 0.334 |
| Rectangle C | 18.0 | 600.0 | 0.25 | 4 | 10800.000 | 0.005 | 10.013 | 0.000 | 10.015 |
| Rectangle D | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle E | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle F | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle G | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle H | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle I | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Rectangle J | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Total Volume Release: | | | | | | | | | 14.800 |

Released to Imaging: 1/13/2023 10:11:55 AM

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 175847

CONDITIONS

| | |
|---|---|
| Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | OGRID: 229137 |
| | Action Number: 175847 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| jharimon | None | 1/13/2023 |

| | |
|----------------|----------------|
| Incident ID | NAPP2301334575 |
| District RP | |
| Facility ID | fAPP2203847910 |
| 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? | > 100 (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 checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

| | |
|----------------|----------------|
| Incident ID | NAPP2301334575 |
| District RP | |
| Facility ID | fAPP2203847910 |
| 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: Justin Carlile Title: Sr. Environmental Engineer
Signature: Justin Carlile Date: 10/23/2023
email: Justin.Carlile@ConocoPhillips.com Telephone: (432) 202-4112

OCD Only

Received by: Shelly Wells Date: 11/6/2023

| | |
|----------------|----------------|
| Incident ID | NAPP2301334575 |
| District RP | |
| Facility ID | fAPP2203847910 |
| Application ID | |

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Justin Carlile Title: Sr. Environmental Engineer
Signature: Justin Carlile Date: 10/23/2023
email: Justin.Carlile@ConocoPhillips.com Telephone: (432) 202-4112

OCD Only

Received by: Shelly Wells Date: 11/6/2023

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Scott Rodgers Date: 02/26/2024

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 282823

CONDITIONS

| | |
|---|---|
| Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | OGRID: 229137 |
| | Action Number: 282823 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|---|----------------|
| scott.rodgers | The Remediation Plan is Conditionally Approved. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. All off-pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the report has been reviewed. | 2/26/2024 |